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xEnergy Main



Design-verified Switchgear System Catalogue

Powering Business Worldwide

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X.X



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xEnergy Main Switchboards

xEnergy Main power distribution - System description



xEnergy Main product features

- Enclosures for side-by-side and stand-alone cabinets
- Degree of protection IP31 or IP55
- Main busbars up to 5000 A
- 2 Main busbar systems are possible in each section
- Clear separations into functional areas from form 1 to form 4 to provide even better protection for people and equipment
- Widths of 425, 600, 800, 850, 1000, 1100, 1200 and 1350 mm
- Height 2000 mm
- Color RAL 7035 (other colors upon request)
- Network types TN-C, TN-C-S, TN-S, TT, IT
- Type-tested switchgear assemblies in accordance with IEC/EN 61439
- Optimized for 3 and 4 pole switchgear from Eaton

Incoming supplies, outgoers and couplings up to 5000 A

- cable connection from the top and bottom
- busbar positions rear-mounted - bottom/top mounted or running under the top panel
- section height 2000 mm / section depth 400/600/800/1000 (1000 = 800+200) mm
- internal separations up to Form 4







Outgoing sections for fixed outgoers up to 630 A in Form 4

- widths of 425/600/800/1000/1100/1200/1350 mm
- fixed or withdrawable
- 3 or 4 poles
- with a second busbar suitable as a coupling section
- 630 - 5000 A
- Form 4
- IP31, IP55 with IZM-XDT protective cover
- suitable for drill-free cable connection, can be installed at the top or bottom
- to be operated from outside
- suitable for switchgear with remote operation

Compact circuit breakers NZM3/4 in Form 4

- widths of 425/600/800/1000 mm
- fixed or withdrawable
- 3, 4 or 3 pole + TPN
- with a second busbar suitable as a coupling section
- 250 - 630 A (NZM3)
- 630 - 1600 A (NZM4)
- Form 4
- IP31, IP42, IP55
- suitable for drill-free cable connection, can be installed at the top or bottom
- to be operated from outside
- installation of two switching devices in one section is possible
- suitable for switchgear with remote operation

Compact circuit breakers NZM4 in Form 2



- widths of 425/600/800 mm
- fixed or withdrawable
- 3 or 4 poles
- with a second busbar suitable as a coupling section
- 630 - 1600 A
- Form 2
- IP31/55
- suitable for drill-free cable connection, can be installed at the top or bottom
- to be operated behind the door as high as the section
- suitable for switchgear with remote operation

XF - Outgoing sections - fixed design

- Outgoers with circuit breakers PKZ, NZM, FAZ, switch fuse units and fuse switch disconnectors up to 630 A
- for busbar positions at the rear - top/bottom or running under the top panel
- section height 2000 mm / section depth 400/600/800 mm

Outgoing sections for outgoers up to 630 A in Form 2



- widths of 800/1000/1200 mm
- module widths of 425 and 600 mm
- 3 or 4 poles
- Form 2
- IP31/55
- consistent mounting height of switchgear
- circuit breakers suitable for use with plug base
- single-wing section door up to 800/1000 mm, 2-wing door for 1200 mm
- suitable for switchgear with remote operation
- operation behind the door
- dropper bar to be selected from 800-1600 A
- separate set-up in 2 separate sections is possible, e.g. 600 mm/600 mm. Switchgear area/ cable connection area

Outgoing sections for fixed outgoers up to 630 A in Form 4



- widths of 800/1000/1200 mm
- module widths of 425 and 600 mm
- each module comes with its own front panel
- 3 or 4 poles
- Form 4
- IP31/55
- circuit breakers suitable for use with plug base - NZM3 with plug base in 800 mm deep sections
- suitable for switchgear with remote operation
- separate doors to switchgear area and connection area
- transparent doors (glass doors) are possible
- dropper bar to be selected from 800-1600 A
- separate set-up in 2 separate sections is possible, e.g. 600/600 mm Switchgear area/cable connection area

Outgoing section for fuse strips up to 630A alternatively with dropper busbar up to 800-3200 A across two sections



- widths of 600/800/1000 mm
- dropper bar to be selected from 800-3200 A
- Form 2
- fuse strips in vertical position
- IP31/IP42/IP55 with door as high as the section
- outgoers are possible downwards and upwards
- up to 40% Cu savings
- operation from outside or behind the door
- two different distribution busbars for selection
  - 800-1600 A with single busbar
  - 1600-3200 A with double busbar system

Box Solution



- widths of 600/1000/1200 mm
- module widths of 425/600 mm
- each module comes with its own door to the switchgear area
- 3 or 4 poles
- fixed or withdrawable
- suitable for switchgear with remote operation
- to be operated behind the door or with rotary door coupling handle
- dropper bar to be selected from 800-1600 A
- empty and module panels for the set-up of outgoers (RCD, FAZ ...)
- Form 4
- IP31/55





Outgoing sections for switch fuse units (load disconnector units) up to 630 A (SSL)

- widths of 600/800/1000/1200 mm
- suitable for rear-mounted main busbar HSS
- horizontal and vertical position of fuse switch disconnector strips is possible
- can be installed while energized (fuse strips)
- IP31
- outgoers are possible downwards and upwards
- Form 4
- operation from outside
- dropper bar selectable from 800-1600 A

Outgoing sections - Removable (plug-in module) design

- widths of 800/1000/1200 mm
- module width 600 mm
- can be equipped to meet requirements of Form 2 to 4 / up to Type 7
- 3 or 4-pole
- IP31/42/55
- dropper bar selectable from 800-1600 A
- Short-circuit current/dropper bar ICW: up to 80 kA
- finger-safe cover for dropper bars
- consistently equal height of mounting plates with fixed installation
- in Form 2 section door in 1 piece (for 800/1000 mm, for 1200 mm in two pieces)
- to be operated behind the door or with rotary door coupling handle
- can be equipped with fixed modules, removable modules, PIFT modules and Box Solution
- same removable modules for Form 2+4
- Energy modules (with circuit breakers) can be expanded/combined with universal modules
- modules can be replaced while energized
- modules can be combined (fixed/removable design/PIFT)
- switchgear can be realized for remote operation

XW - Outgoing sections - withdrawable design



Outgoing sections - withdrawable design

- widths of 1000/1200 mm
- section depths of 600/800/1000 mm
- 3 or 4 poles
- rated current of dropper bars In=1000 or 2000 A / 3 or 4 poles
- max. short-circuit current ICW=80 kA
- IP31/55
- shelf-boards can be mounted at individual heights, depending on the size of the modules
- max. height of dropper bar available to accommodate equipment = 1875 mm
- cable connection area, fully sealed off from the switchgear area, main busbar area and dropper bar area
- dropper bar at the front fully sealed off thanks to self-closing shutters
- drawers available:
  power outgoers up to 630 A
  direct starters from 0.06-132 kW
  reverse starters from 0.06-132 kW
  star-triangle starters from 5.5-110 kW
- outgoers from 132 to 250 kW are executed as fixed design solutions
- modules removable while energized





Empty sections for individual mounting units

- fitting systems for modular installation devices (IVS, EP, Profi+ ...)
- individual mounting units fixed on mounting plates
- control technology - suitable for installation of mounting plates as high as the section, or of split ones
- section height 2000 mm
- section depths of 400/600/800 mm
- section widths of 425/600/800/850/1000/1100/1200/1350 mm
- IP31/55

Technical data

		Rear busbars up to 5500 A
Standards/regulations		IEC/EN 61439-1, IEC/EN 61439-2, TR61641, DEKRA (KEMA)
Apply Cu according to		EN 13601-CU-ETP-R250-SH
Ambient temperature		-5 °C up to +40 °C, 24 h average value: +35 °C
Relative humidity		50% at 40 °C
Protective measure		Protection class I
Degree of protection [1]		IP31, IP42, IP55 according to IEC/EN 60529 IK10
Internal partition		IPxxB
Rated insulation voltage	U_i	1000 V
Rated voltage	U_e	690 V
Insulation coordination		III/3
Rated impulse withstand voltage	U_{imp}	up to 12 kV
Overvoltage category		IV
Degree of pollution		3
Rated frequency		40-60 Hz
Busbar rated current	I_e	up to 5500 A
Busbar rated impulse withstand current	I_{CW}	up to 100 kA (1s)
Busbar rated peak withstand current	I_{pk}	up to 220 kA
Sheet thickness		Door and frame = 2 mm, rear, side and top panels = 1.5 mm
Metal surfaces		Powder-coated
Color		RAL 7035 light-grey
Lock mechanism		Espagnolette lock with 2 or 4 point locking and turn-lock 3 mm two-way key bit
On-site installation conditions		Indoor installation according to IEC/EN 61439
Dimensions		
Width		425-1350 mm
Height		2000 mm (optional 100 or 200 mm with plinth)
Depth		400, 600, 800, 1000 mm

[1] The degree of protection of the fitted components - depending on the specifications given in the components catalogue - must be taken into account.

– Ready to connect, steel-encapsulated low-voltage switchgear system in multiple control panel design with type-tested installation systems to ICE/EN 61439-1 (VDE 0660 part 500), IEC/EN 61439-2 (VDE 0660 part 600-2).

– The following descriptions are calculation-related and contractual elements. They are to be considered with the descriptions of the individual systems and the equipment, even when they are not mentioned in detail.

– Cabinet systems consisting of individual add-on sections of the same type in torsion-resistant steel profile design, made of 2 mm thick steel sections, with internal pre-drilled holes at 25 mm intervals to DIN 43660, structured powder spray paint RAL 7035 light grey.

– Removable external panelling, made of 1.5 mm sheet steel, structured powder spray paint RAL 7035 light grey.

– All construction parts for internal setup are hot-galvanized and feature pre-drilled holes at 25 mm intervals to DIN 43660.

– Plinth 100/200 mm high, powder-coated in RAL 7035 light grey, with removable front, side and rear panels. The plinth must be suitable for direct transport with the respective tools.

– Switchboard cabinets accessible from the front through inlying doors with external hinges. 180° door opening angle. Door lock with espagnolette lock, 4 point locking and two-way key bit lock. To be actuated with a clip-down handle for half cylinder safety lock.

– All transport units feature removable lifting eyebolts.

– Equipment of the switchgear system with the following components, fixed installation method::

. . . . . .

. . . . . .

. . . . . .

. . . . . .

. . . . . .

. . . . . .

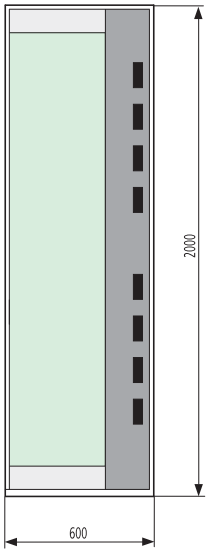
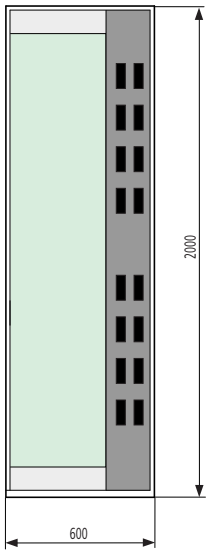
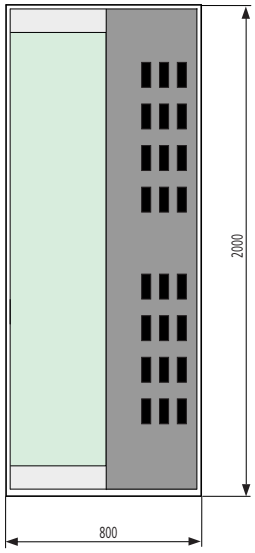
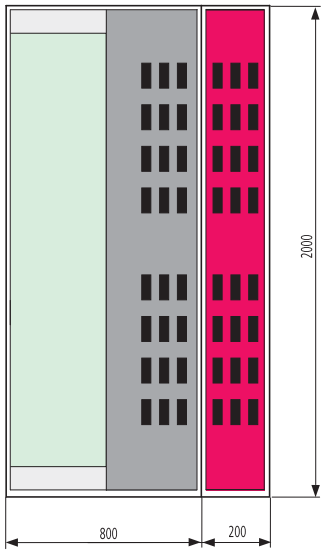
Fully assembled switchgear system described above, ready to connect and prewired, subject to 100% ex-factory test to IEC/EN 61439 part 1. The test protocol is part of the documentation.

– Manufactured by Eaton
– Type xEnergy Main

– Degree of protection:	IP31 to DIN EN 60529
	IP42/55 with sealed door
– Protective measures:	with protective conductor, protection class I
– Rated insulation voltage:	690 V
– Overvoltage category:	III
– Degree of pollution:	3
– Rated operational voltage:	 V
– Frequency:	. . . . . Hz
– Control voltage AC/DC:	 V
·– Busbar rated current:	. . . . . A
– Rated short-time withstand current Icw	. . . . . kA/s
– Network system configuration	. . . . .
– Busbars (number), conductor labelling	. . . . .
– Max. dimensions allowed	
Width	. . . . .
Height	. . . . .
Depth	. . . . .
– Largest transport unit allowed	
Width	. . . . .
Height	. . . . .
Depth	. . . . .

xEnergy Main Switchboards

System description - main busbars and section depths

Busbar				
Rated current I_e (Cu cross-sections)	800 A (1 x 40 x 10 mm²) 1250 A (1 x 60 x 10 mm²)	1600 A (2 x 40 x 10 mm²) 2000 A (2 x 60 x 10 mm²) 2500 A (2 x 80 x 10 mm²) 3200 A (3 x 80 x 10 mm²)	4000 A (3 x 80 x 10 mm²)	5000 A 2x(3 x 80 x 10 mm²)
Mounting location Rear-mounted (side view)	 Kat_HSS_SB	 00155946_0	 00155956_0	 Kat_HSS_5000

Busbar area

Switchgear area

additional busbar area for 5000 A

General Overview of Enclosures

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Main busbar located at the "rear"

XP = Power sections

- IZMX16 ... Page xx
- IZMX40 ... Page xx
- IZM26 ... Page xx
  - IZM20 ... Page xx
  - IZM32 ... Page xx
  - IZM40 ... Page xx
  - IZM63 ... Page xx
- IZM13 ... Page xx
- NZM4 in Form 2 ... Page xx
- NZM3/4 in Form 4 ... Page xx

XF = Outgoing sections - fixed design

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XR = Outgoing sections - removable design

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XW = Outgoing sections - withdrawable design

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XG = Empty sections for general equipment

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Individual components

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Accessories for XP sections ... Page xx
Busbars/connection systems and accessories ... Page xx
Fitting kits - outgoing sections ... Page xx
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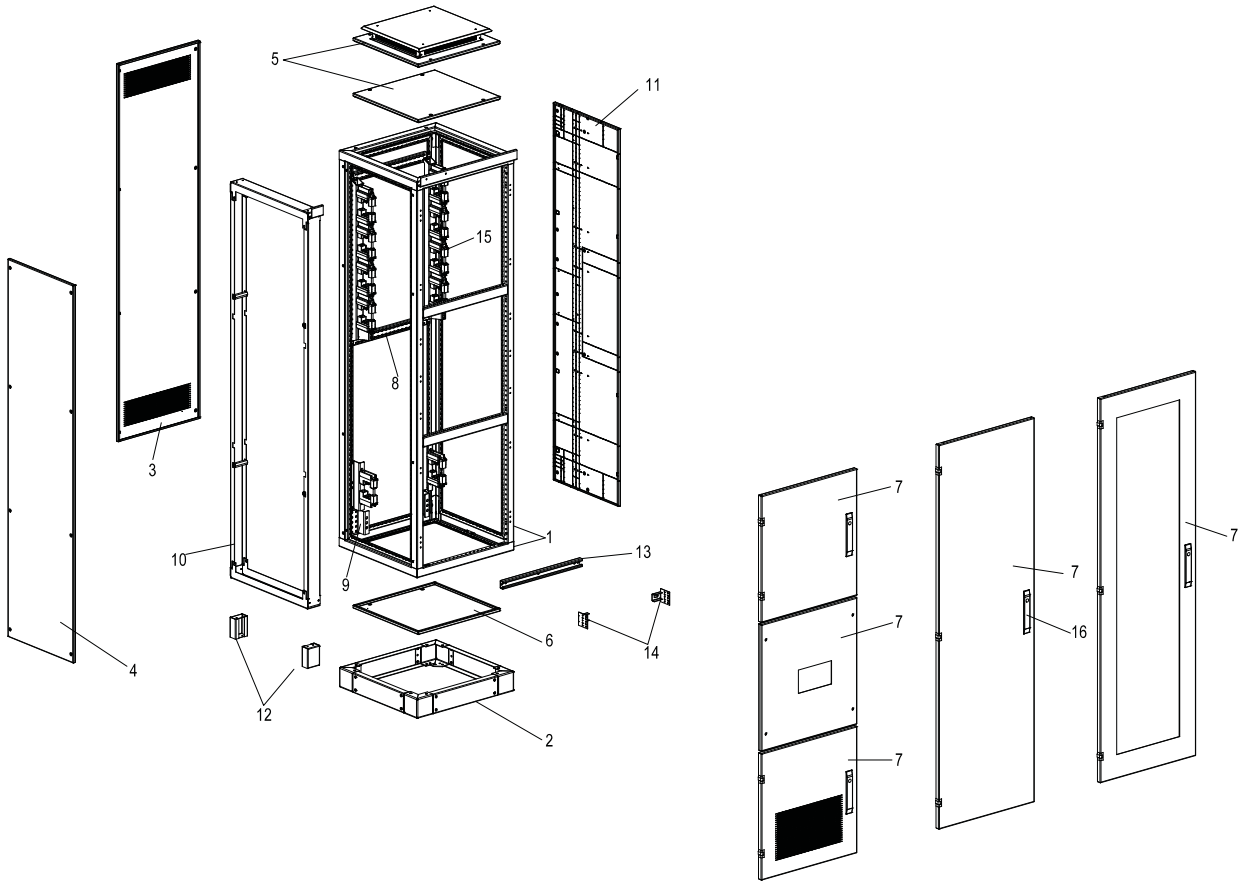
Description

CAT000009



1 Frame
2 Plinth
3 Rear panel
4 Side panel
5 Top panel
6 Bottom panel
7 Door
8 Crossbar for rail holder
9 Holder for grounding bar
10 Add-on frame
11 Separation panel between section/section
12 Add-on plinth
13 Cable strain relief rail
14 Fixing bracket for cable strain relief rail
15 Main busbar support
16 Lock

Features

- Widths 425/600/800/850/1000/1100/1200/1350 mm
- IP31, IP42, IP55

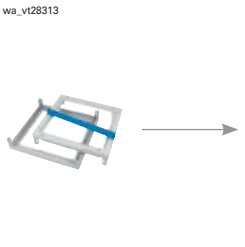
Notes

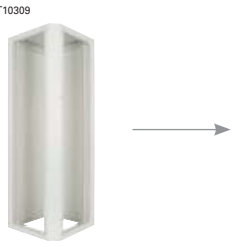
Frame comes with a blue design strip.
Doors include a locking system for a 3 mm two-way key bit.
Where cover plates consisting of several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.

xEnergy Main Switchboards

xEnergy Main Switchboards - General Overview, Section Depth 400 mm













Item numbers of the exploded pictorial view		1	1	1	1	1	1	1	1
		General articles							
Section width mm	Section depth mm	Frame	Frame 5000 A depth 200 mm	Corner section H = 2000 mm W = 650 mm D = 600 mm incl. rear and top panel	Corner section H = 2000 mm W = 850 mm D = 800 mm incl. rear and top panel	Corner section extension set 1050x1050 for 5000 A application	Height profile consisting of 4 vertical profiles	Height profile consisting of 4 vertical profiles for Box Solution	Height profile for section add-on 5000A application consisting of 4 vertical profiles
		Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
425	400	**XSFB0404** 284231 122274*	-	-	-	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
600	400	**XSFB0604** 284234 122277*	-	-	-	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
800	400	**XSFB0804** 284237 122280*	-	-	-	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
850	400	**XSFB08504** 143343 143479*	-	-	-	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
1000	400	**XSFB1004** 284240 122283*	-	-	-	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
1100	400	**XSFB1104** 143348 143484*	-	-	-	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
1200	400	**XSFB1204** 132935 186367*	-	-	-	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
1350	400	**XSFB13504** 143352 143488*	-	-	-	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*

Note * Finish in special RAL colour

xEnergy Main Switchboards - General Overview, Section Depth 400 mm



8	9	10	10	3	3	3	11	11
Crossbar for rail holder	Rail holder for PEN	Add-on frame (section width 75 mm)	Add-on frame (section width 150 mm) for 5000 A application	Rear panel ventilated IP31	Rear panel ventilated IP42	Rear panel closed IP55	Separation panel section/section	Separation panel section/section depth 200 mm
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XBBB04 283859	**XBSP** 283872	-	-	**XSWV2004** 284360 122351*	**XTSZRV4-W425** 172524 186416*	**XSWC2004** 284355 122346*	**XPSS2004** 284781	-
XBBB06 283860	**XBSP** 283872	-	-	**XSWV2006** 284361 122352*	**XTSZRV4-W600** 172525 186417*	**XSWC2006** 284356 122347*	**XPSS2004** 284781	-
XBBB08 283861	**XBSP** 283872	-	-	**XSWV2008** 284362 122353*	**XTSZRV4-W800** 172526 186418*	**XSWC2008** 284357 122348*	**XPSS2004** 284781	-
XBBB085 143187	**XBSP** 283872	-	-	**XSWV20085** 143417 143553*	-	**XSWC20085** 143416 143552*	**XPSS2004** 284781	-
XBBB10 283862	**XBSP** 283872	-	-	**XSWV2010** 284363 122354*	**XTSZRV4-W1000** 172520 186412*	**XSWC2010** 284358 122349*	**XPSS2004** 284781	-
XBBB11 133098	**XBSP** 283872	-	-	**XSWV2011** 133002 133050*	**XTSZRV4-W1100** 172521 186413*	**XSWC2011** 133000 133048*	**XPSS2004** 284781	-
XBBB12 283863	**XBSP** 283872	-	-	**XSWV2012** 284364 122355*	**XTSZRV4-W1200** 172522 186414*	**XSWC2012** 284359 122350*	**XPSS2004** 284781	-
XBBB135 133099	**XBSP** 283872	-	-	**XSWV20135** 133003 133051*	**XTSZRV4-W1350** 172523 186415*	**XSWC20135** 133001 133049*	**XPSS2004** 284781	-

Note * Finish in special RAL colour

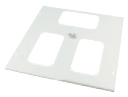
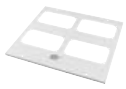
VT07706 wa_vt25313 wa_vt08713 wa_vt25513 wa_vt63213 wa_vt66113 wa_vt25513



4	4	5	5	5	5	5	5	5	5
Side panel IP55	Side panel depth 200 mm IP55	Top panel Bottom panel of sev. parts IP30	Top panel Bottom panel of sev. parts 2 openings depth 400-800 mm IP30	Top panel ventilated IP31	Top panel Bottom panel closed IP55	Top panel Bottom panel closed depth 200 mm IP55	Top panel Bottom panel with flange IP55	Top panel with arc fault protection, depth 400-800 mm IP30	Top panel Bottom panel for corner section IP55
Article No. per unit unit = 2 pc.	Article No. per unit unit = 2 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XAW2004 283856 122118*	-	**XSPBM0404** 284286 122301*	-	**XAD0404** 283484 122076*	**XSPTC0404** 284301 122316*	-	**XSPTF0404** 284316 122331*	**XSPTA0404** 107256	-
XAW2004 283856 122118*	-	**XSPBM0604** 284289 122304*	-	**XAD0604** 283487 122079*	**XSPTC0604** 284304 122319*	-	**XSPTF0604** 284319 122334*	**XSPTA0604** 107259	-
XAW2004 283856 122118*	-	**XSPBM0804** 284292 122307*	-	**XAD0804** 283810 122082*	**XSPTC0804** 284307 122322*	-	**XSPTF0804** 284322 122337*	**XSPTA0804** 107282	-
XAW2004 283856 122118*	-	**XSPBM08504** 143365 143501*	-	**XAD08504** 143289 143425*	**XSPTC08504** 143391 143527*	-	**XSPTF08504** 143404 143540*	**XSPTA08504** 143378	-
XAW2004 283856 122118*	-	**XSPBM1004** 284295 122310*	-	**XAD1004** 283813 122085*	**XSPTC1004** 284310 122325*	-	**XSPTF1004** 284325 122340*	**XSPTA1004** 107285	-
XAW2004 283856 122118*	-	**XSPBM1104** 143370 143506*	-	**XAD1104** 143294 143430*	**XSPTC1104** 143396 143532*	-	**XSPTF1104** 143409 143545*	**XSPTA1104** 143383	-
XAW2004 283856 122118*	-	**XSPBM1204** 132962 186378*	**XSPBM1204-1** 284298 122313*	**XAD1204** 143297 143433*	**XSPTC1204** 284313 122328*	-	**XSPTF1204** 284328 122343*	**XSPTA1204** 107288	-
XAW2004 283856 122118*	-	**XSPBM13504** 143374 143510*	-	**XAD13504** 143299 143435*	**XSPTC13504** 143400 143536*	-	**XSPTF13504** 143413 143549*	**XSPTA13504** 143387	-

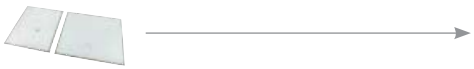
Note * Finish in special RAL colour

xEnergy Main Switchboards - General Overview, Section Depth 400 mm

wa_vt63213	wa_vt25313	wa_vt25613	wa_vt14313		wa_vt14213	wa_vt14113	wa_vt14213	wa_vt14113
								
5	5	5	6	6	6	6	6	6
XF	XW		General articles					
Top panel Bottom panel with flange depth 600-800 mm IP55	Top panel of sev. parts IP30	Top panel for flanges IP55	Bottom panel with foam pad 40 mm, Section width 425-1350 mm IP20	Bottom panel with foam pad 40 mm, Section depth 400-800 mm IP20	Bottom panel width 35 mm Section width 425-1350 mm, no foam pad IP20	Bottom panel width 110 mm Section width 425-1350 mm, no foam pad IP20	Bottom panel width 35 mm Section depth 400-800 mm, no foam pad IP20	Bottom panel width 110 mm Section depth 400-800 mm, no foam pad IP20
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
-	-	-	**XSPBA0401** 107679	**XSPBA0104** 107684 122535*	**XSPBAC0401** 107687	**XSPBAC0402** 107692	**XSPBAC0104** 107697 122548*	**XSPBAC0204** 107700 122551*
-	-	-	**XSPBA0601** 107680	**XSPBA0104** 107684 122535*	**XSPBAC0601** 107688	**XSPBAC0602** 107693	**XSPBAC0104** 107697 122548*	**XSPBAC0204** 107700 122551*
-	-	-	**XSPBA0801** 107681	**XSPBA0104** 107684 122535*	**XSPBAC0801** 107689	**XSPBAC0802** 107694	**XSPBAC0104** 107697 122548*	**XSPBAC0204** 107700 122551*
-	-	-	**XSPBA08501** 143355	**XSPBA0104** 107684 122535*	**XSPBAC08501** 143358	**XSPBAC08502** 143359	**XSPBAC0104** 107697 122548*	**XSPBAC0204** 107700 122551*
-	-	-	**XSPBA1001** 107682	**XSPBA0104** 107684 122535*	**XSPBAC1001** 107690	**XSPBAC1002** 107695	**XSPBAC0104** 107697 122548*	**XSPBAC0204** 107700 122551*
-	-	-	**XSPBA1101** 143356	**XSPBA0104** 107684 122535*	**XSPBAC1101** 143360	**XSPBAC1102** 143361	**XSPBAC0104** 107697 122548*	**XSPBAC0204** 107700 122551*
-	-	-	**XSPBA1201** 107683	**XSPBA0104** 107684 122535*	**XSPBAC1201** 107691	**XSPBAC1202** 107696	**XSPBAC0104** 107697 122548*	**XSPBAC0204** 107700 122551*
-	-	-	**XSPBA13501** 143357	**XSPBA0104** 107684 122535*	**XSPBAC13501** 143362	**XSPBAC13502** 143363	**XSPBAC0104** 107697 122548*	**XSPBAC0204** 107700 122551*

Note * Finish in special RAL colour

wa_vt62713



wa_vt65013



wa_vt34213



VT22613



VT10513

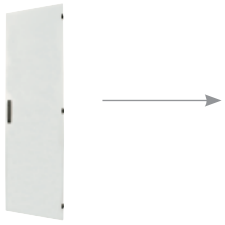


6	6	6	6	7	7	7	7
	XF	PIFT		General articles			
Bottom panel galvaniz. 3 mm Section depth 400-800 mm IP55	Bottom panel galvaniz. 3 mm for XF sections Section depth 400-800 mm IP55	Bottom panel galvaniz. 3 mm for PIFT sections, Section depth 400-800 mm, IP55	Bottom panel galvaniz. 3 mm for PIFT sect. with door to switchgear a., Section depth 600-800 mm, IP55	Section door ventilated left IP31	Section door ventilated right IP31	Section door ventilated left IP42	Section door ventilated right IP42
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XSPBU0404 119910	-	-	-	**XSDMLV2004** 284209 122255*	**XSDMRV2004** 284218 122264*	**XTSZDSKV4L-H2000W425** 172497 186389*	**XTSZDSKV4R-H2000W425** 172500 186392*
XSPBU0604 119911	-	-	-	**XSDMLV2006** 284210 122256*	**XSDMRV2006** 284219 122265*	**XTSZDSKV4L-H2000W600** 172498 186390*	**XTSZDSKV4R-H2000W600** 172501 186393*
XSPBU0804 119912	-	-	-	**XSDMLV2008** 284211 122257*	**XSDMRV2008** 284220 122266*	**XTSZDSKV4L-H2000W800** 172499 186391*	**XTSZDSKV4R-H2000W800** 172502 186394*
XSPBU08504 143214	-	-	-	**XSDMLV20085** 143338 143474*	**XSDMRV20085** 143339 143475*	-	-
XSPBU1004 119913	-	-	-	**XSDMLV2010** 284212 122258*	**XSDMRV2010** 284221 122267*	**XTSZDSKV4L-H2000W1000** 172701 186428*	**XTSZDSKV4R-H2000W1000** 172702 186292*
XSPBU1104 143219	-	-	-	-	-	-	**XTSZDSKV4S-H2000W1100** 172503 186395*
-	-	-	-	-	**XSDMRV2012** 284222 122268*	-	**XTSZDSKV4S-H2000W1200** 172504 186396*
XSPBU13504 143224	-	-	-	-	-	-	**XTSZDSKV4S-H2000W1350** 172505 186397*

Note * Finish in special RAL colour

xEnergy Main Switchboards - General Overview, Section Depth 400 mm

wa_vt71113



wa_vt65113



VT08106



wa_vt66713



7	7	7	7	2	2	2	2
Section door closed left, for use on the right IP55	Section door closed double-wing IP55	Section door with glass (transparent) left, for use on the right IP55	Section door with glass (transparent) can be used for double-wing door IP55	Plinth width 425-1350 mm depth 400 - 1000 mm H = 100 mm	Plinth width 425-1350 mm depth 400 - 1000 mm H = 200 mm	Plinth for corner sections H = 100 mm	Plinth for corner sections H = 200 mm
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XSDMC2004 284198 122244*	-	**XSDMD2004** 284203 122249*	-	**XAP010404** 283822 122090*	**XAP020404** 283836 122104*	-	-
XSDMC2006 284199 122245*	-	**XSDMD2006** 284204 122250*	-	**XAP010604** 283825 122093*	**XAP020604** 283839 122107*	-	-
XSDMC2008 284200 122246*	-	**XSDMD2008** 284701 122358*	-	**XAP010804** 283828 122096*	**XAP020804** 283842 122110*	-	-
XSDMC20085 143330 143466*	-	**XSDMC20085** 143330 143469*	-	**XAP0108504** 143303 143439*	**XAP0208504** 143316 143452*	-	-
XSDMC2010 284201 122247*	**XSDMC2010-S** 132952 171669*	-	**XSDMD2010-S** 143334 143470*	**XAP011004** 283831 122099*	**XAP021004** 283845 122113*	-	-
-	**XSDMC2011-S** 143331 143467*	-	**XSDMD2011-S** 143335 143471*	**XAP011104** 143308 143444*	**XAP021104** 143321 143457*	-	-
-	**XSDMC2012-S** 284202 122248*	-	**XSDMD2012-S** 143336 143472*	**XVTL-SO100/SS-12/4** 119698	**XVTL-SO200/SS-12/4** 119699	-	-
-	**XSDMC20135-S** 143332 143468*	-	**XSDMD20135-S** 143337 143473*	**XAP0113504** 143312 143448*	**XAP0213504** 143325 143461*	-	-

Note * Finish in special RAL colour

wa_vt69513



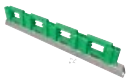
wa_vt15013



wa_vt58313



wa_vt33413



12	12	12	12	13	14	15
Plinth for add-on frame frame width 75 mm H = 100 mm	Plinth for add-on frame frame width 75 mm H = 200 mm	Plinth for add-on frame frame width 150 mm H = 100 mm	Plinth for add-on frame frame width 150 mm H = 200 mm	Cable strain relief rail	Fixing bracket for cable strain relief rail	Rail holder for main busbar
Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 set
-	-	-	-	**XAR04** 283850	**XNBW-R2** 106740	see page xx
-	-	-	-	**XAR06** 283851	**XNBW-R2** 106740	see page xx
-	-	-	-	**XAR08** 283852	**XNBW-R2** 106740	see page xx
-	-	-	-	**XAR085** 143183	**XNBW-R2** 106740	see page xx
-	-	-	-	**XAR10** 283853	**XNBW-R2** 106740	see page xx
-	-	-	-	**XAR11** 133076	**XNBW-R2** 106740	see page xx
-	-	-	-	**XAR12** 283854	**XNBW-R2** 106740	see page xx
-	-	-	-	**XAR135** 133077	**XNBW-R2** 106740	see page xx

Note * Finish in special RAL colour

xEnergy Main Switchboards

xEnergy Main Switchboards - General Overview, Section Depth 600 mm

wa_vt75013



wa_vt28313



VT10309



VT00111



VT10109



VT00811



Item numbers of the exploded pictorial view		1	1	1	1	1	1	1	1
		General articles							
Section width mm	Section depth mm	Frame	Frame 5000 A depth 200 mm	Corner section H = 2000 mm W = 650 mm D = 600 mm incl. rear and top panel	Corner section H = 2000 mm W = 850 mm D = 800 mm incl. rear and top panel	Corner section extension set 1050x1050 for 5000 A application	Height profile consisting of 4 vertical profiles	Height profile consisting of 4 vertical profiles for Box Solution	Height profile for section add-on 5000A application consisting of 4 vertical profiles
		Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
300	600	**XSFB0306** 177083 186607*	-	**XSC200606** 286388 141839*	-	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
425	600	**XSFB0406** 284232 122275*	-	**XSC200606** 286388 141839*	-	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
600	600	**XSFB0606** 284235 122278*	-	**XSC200606** 286388 141839*	-	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
800	600	**XSFB0806** 284238 122281*	-	**XSC200606** 286388 141839*	-	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
850	600	**XSFB08506** 143345 143481*	-	**XSC200606** 286388 141839*	-	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
1000	600	**XSFB1006** 284241 122284*	-	**XSC200606** 286388 141839*	-	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
1100	600	**XSFB1106** 143350 143486*	-	**XSC200606** 286388 141839*	-	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
1200	600	**XSFB1206** 284243 122286*	-	**XSC200606** 286388 141839*	-	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
1350	600	**XSFB13506** 143354 143490*	-	**XSC200606** 286388 141839*	-	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*

Note * Finish in special RAL colour

xEnergy Main Switchboards - General Overview, Section Depth 600 mm

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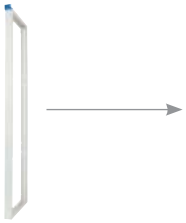
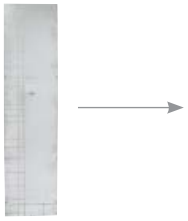
VT27209 

wa_vt65713 

wa_vt65613 

VT22313 

wa_vt25213 

VT07906 

8	9	10	10	3	3	3	11	11
Crossbar for rail holder	Rail holder for PEN	Add-on frame (section width 75 mm)	Add-on frame (section width 150 mm) for 5000 A application	Rear panel ventilated IP31	Rear panel ventilated IP42	Rear panel closed IP55	Separation panel section/section	Separation panel section/section depth 200 mm
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XBBB03 177082	**XBSP** 283872	**XSAF200106** 289908 122389*	-	**XSWV2003** 177084 186608*	**XTSZRV4-W300** 174083 186606*	**XTSZRC-W300** 174079	**XPSS2006** 284178	-
XBBB04 283859	**XBSP** 283872	**XSAF200106** 289908 122389*	-	**XSWV2004** 284360 122351*	**XTSZRV4-W425** 172524 186416*	**XSWC2004** 284355 122346*	**XPSS2006** 284178	-
XBBB06 283860	**XBSP** 283872	**XSAF200106** 289908 122389*	-	**XSWV2006** 284361 122352*	**XTSZRV4-W600** 172525 186417*	**XSWC2006** 284356 122347*	**XPSS2006** 284178	-
XBBB08 283861	**XBSP** 283872	**XSAF200106** 289908 122389*	-	**XSWV2008** 284362 122353*	**XTSZRV4-W800** 172526 186418*	**XSWC2008** 284357 122348*	**XPSS2006** 284178	-
XBBB085 143187	**XBSP** 283872	**XSAF200106** 289908 122389*	-	**XSWV20085** 143417 143553*	-	**XSWC20085** 143416 143552*	**XPSS2006** 284178	-
XBBB10 283862	**XBSP** 283872	**XSAF200106** 289908 122389*	-	**XSWV2010** 284363 122354*	**XTSZRV4-W1000** 172520 186412*	**XSWC2010** 284358 122349*	**XPSS2006** 284178	-
XBBB11 133098	**XBSP** 283872	**XSAF200106** 289908 122389*	-	**XSWV2011** 133002 133050*	**XTSZRV4-W1100** 172521 186413*	**XSWC2011** 133000 133048*	**XPSS2006** 284178	-
XBBB12 283863	**XBSP** 283872	**XSAF200106** 289908 122389*	-	**XSWV2012** 284364 122355*	**XTSZRV4-W1200** 172522 186414*	**XSWC2012** 284359 122350*	**XPSS2006** 284178	-
XBBB135 133099	**XBSP** 283872	**XSAF200106** 289908 122389*	-	**XSWV20135** 133003 133051*	**XTSZRV4-W1350** 172523 186415*	**XSWC20135** 133001 133049*	**XPSS2006** 284178	-

Note * Finish in special RAL colour

VT07706



wa_vt25313



wa_vt08713



wa_vt25513

wa_vt63213



wa_vt66113



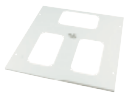
wa_vt25513

4	4	5	5	5	5	5	5	5	5	5
Side panel IP55	Side panel depth 200 mm IP55	Top panel Bottom panel of sev. parts IP30	Top panel Bottom panel of sev. parts 2 openings depth 400-800 mm IP30	Top panel ventilated IP31	Top panel Bottom panel closed IP55	Top panel Bottom panel closed depth 200 mm IP55	Top panel Bottom panel with flange IP55	Top panel with arc fault protection, depth 600 mm IP55	Top panel with arc fault protection and release for cable entry via cable connection area, depth 600 mm IP55	Top panel Bottom panel for corner section IP55
Article No. per unit unit = 2 pc.	Article No. per unit unit = 2 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XAW2006 283857 122119*	-	-	-	-	**XSPTC0306** 177085 186609*	-	-	-	-	-
XAW2006 283857 122119*	-	**XSPBM0406** 284287 122302*	-	**XAD0406** 283485 122077*	**XSPTC0406** 284302 122317*	-	**XSPTF0406** 284317 122332*	**XSPTA0406** 107257 122516*	-	-
XAW2006 283857 122119*	-	**XSPBM0606** 284290 122305*	-	**XAD0606** 283488 122080*	**XSPTC0606** 284305 122320*	-	**XSPTF0606** 284320 122335*	**XSPTA0606** 107280 122519*	**XSPTA0806-2** 192250	**XSPBC0606C** 288995 122385*
XAW2006 283857 122119*	-	**XSPBM0806** 284293 122308*	**XSPBM0806-1** 104533 122425*	**XAD0806** 283811 122083*	**XSPTC0806** 284308 122323*	-	**XSPTF0806** 284323 122338*	**XSPTA0806** 107283 122522*	-	-
XAW2006 283857 122119*	-	**XSPBM08506** 143367 143503*	-	**XAD08506** 143291 143427*	**XSPTC08506** 143393 143529*	-	**XSPTF08506** 143406 143542*	**XSPTA08506** 143380 143516*	-	-
XAW2006 283857 122119*	-	**XSPBM1006** 104529 122421*	**XSPBM1006-1** 284296 122311*	**XAD1006** 283814 122086*	**XSPTC1006** 284311 122326*	-	**XSPTF1006** 284326 122341*	**XSPTA1006** 107286 122525*	**XSPTA1006-2** 192251	-
XAW2006 283857 122119*	-	**XSPBM1106** 143372 143508*	-	**XAD1106** 143296 143432*	**XSPTC1106** 143398 143534*	-	**XSPTF1106** 143411 143547*	**XSPTA1106** 143385 143521*	-	-
XAW2006 283857 122119*	-	**XSPBM1206** 104531 122423*	**XSPBM1206-1** 284299 122314*	**XAD1206** 283816 122088*	**XSPTC1206** 284314 122329*	-	**XSPTF1206** 284329 122344*	**XSPTA1206** 107289 122528*	**XSPTA1206-2** 192252	-
XAW2006 283857 122119*	-	**XSPBM13506** 143376 143512*	-	**XAD13506** 143301 143437*	**XSPTC13506** 143402 143538*	-	**XSPTF13506** 143415 143551*	**XSPTA13506** 143389 143525*	-	-

Note * Finish in special RAL colour

xEnergy Main Switchboards - General Overview, Section Depth 600 mm

wa_vt63213



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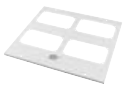


vt17417



vt17317



vt17617



5	5	5					
XF	XW						
Top panel Bottom panel with flange depth 600-800 mm IP55	Top panel of sev. parts IP30	Top panel for flanges IP55	Top panel Bottom panel for bus duct con- nection ventilated IP31	Top panel Bottom panel for bus duct con- nection ventilated IP42	Top panel Bottom panel for bus duct con- nection closed IP55	Size	Adapter frame for bus duct con- nection
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.		Article No. per unit unit = 1 pc.
-	-	-	-	-	-	**Size 1**	**XNAD-LD1** 187704
-	-	-	**XAD3-0406-T** 187671	**XAD4-0406-T** 187682	**XAD5-0406-T** 187693	**Size 2**	**XNAD-LD2** 187705
XSPTF0606-XF 121440 122626*	-	-	**XAD3-0606-T** 187672	**XAD4-0606-T** 187683	**XAD5-0606-T** 187694	**Size 3**	**XNAD-LD3** 187706
XSPTF0806-XF 121442 122628*	-	-	**XAD3-0806-T** 187673	**XAD4-0806-T** 187684	**XAD5-0806-T** 187695		
-	-	-	-	-	-		
XSPTF1006-XF 121444 122630*	**XSPBM1006-MC** 158120 186384*	**XSPTF1006-MC** 158116 186380*	**XAD3-1006-T** 187674	**XAD4-1006-T** 187685	**XAD5-1006-T** 187696		
-	-	-	-	-	-		
XSPTF1206-XF 121446 122632*	**XSPBM1206-MC** 158121 186385*	**XSPTF1206-MC** 158117 186381*	-	-	-		
-	-	-	-	-	-		

Note * Finish in special RAL colour

wa_vt14313



wa_vt14213

wa_vt14113

wa_vt14213

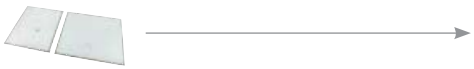
wa_vt14113

6	6	6	6	6	6
General articles					
Bottom panel with foam pad 40 mm, Section width 425-1350 mm IP20	Bottom panel with foam pad 40 mm, Section depth 400-800 mm IP20	Bottom panel width 35 mm Section width 425-1350 mm, no foam pad IP20	Bottom panel width 110 mm Section width 425-1350 mm, no foam pad IP20	Bottom panel width 35 mm Section depth 400-800 mm, no foam pad IP20	Bottom panel width 110 mm Section depth 400-800 mm, no foam pad IP20
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
-	**XSPBA0106** 107685 122536*	-	-	**XSPBAC0106** 107698 122549*	**XSPBAC0206** 107701 122552*
XSPBA0401 107679	**XSPBA0106** 107685 122536*	**XSPBAC0401** 107687	**XSPBAC0402** 107692	**XSPBAC0106** 107698 122549*	**XSPBAC0206** 107701 122552*
XSPBA0601 107680	**XSPBA0106** 107685 122536*	**XSPBAC0601** 107688	**XSPBAC0602** 107693	**XSPBAC0106** 107698 122549*	**XSPBAC0206** 107701 122552*
XSPBA0801 107681	**XSPBA0106** 107685 122536*	**XSPBAC0801** 107689	**XSPBAC0802** 107694	**XSPBAC0106** 107698 122549*	**XSPBAC0206** 107701 122552*
XSPBA08501 143355	**XSPBA0106** 107685 122536*	**XSPBAC08501** 143358	**XSPBAC08502** 143359	**XSPBAC0106** 107698 122549*	**XSPBAC0206** 107701 122552*
XSPBA1001 107682	**XSPBA0106** 107685 122536*	**XSPBAC1001** 107690	**XSPBAC1002** 107695	**XSPBAC0106** 107698 122549*	**XSPBAC0206** 107701 122552*
XSPBA1101 143356	**XSPBA0106** 107685 122536*	**XSPBAC1101** 143360	**XSPBAC1102** 143361	**XSPBAC0106** 107698 122549*	**XSPBAC0206** 107701 122552*
XSPBA1201 107683	**XSPBA0106** 107685 122536*	**XSPBAC1201** 107691	**XSPBAC1202** 107696	**XSPBAC0106** 107698 122549*	**XSPBAC0206** 107701 122552*
XSPBA13501 143357	**XSPBA0106** 107685 122536*	**XSPBAC13501** 143362	**XSPBAC13502** 143363	**XSPBAC0106** 107698 122549*	**XSPBAC0206** 107701 122552*

Note * Finish in special RAL colour

xEnergy Main Switchboards - General Overview, Section Depth 600 mm

wa_vt62713



wa_vt65013



wa_vt34213



VT22613



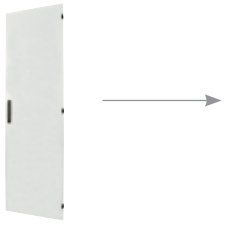
VT10513



6	6	6	6	7	7	7	7
	XF	PIFT		General articles			
Bottom panel galvaniz. 3 mm Section depth 400-800 mm IP55	Bottom panel galvaniz. 3 mm for XF sections Section depth 400-800 mm IP55	Bottom panel galvaniz. 3 mm for PIFT sections, Section depth 400-800 mm, IP55	Bottom panel galvaniz. 3 mm for PIFT sect. with door to switchgear a., Section depth 600-800 mm, IP55	Section door ventilated left IP31	Section door ventilated right IP31	Section door ventilated left IP42	Section door ventilated right IP42
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
-	-	-	-	-	-	-	-
XSPBU0406 119914	-	-	-	**XSDMLV2004** 284209 122255*	**XSDMRV2004** 284218 122264*	**XTSZDSKV4L-H2000W425** 172497	**XTSZDSKV4R-H2000W425** 172500
XSPBU0606 119915	**XSPBU0606-42** 119924	-	-	**XSDMLV2006** 284210 122256*	**XSDMRV2006** 284219 122265*	**XTSZDSKV4L-H2000W600** 172498	**XTSZDSKV4R-H2000W600** 172501
XSPBU0806 119916	**XSPBU0806-62** 119925	-	-	**XSDMLV2008** 284211 122257*	**XSDMRV2008** 284220 122266*	**XTSZDSKV4L-H2000W800** 172499	**XTSZDSKV4R-H2000W800** 172502
XSPBU08506 143216	**XSPBU0806-44** 119926	-	-	**XSDMLV20085** 143338 143474*	**XSDMRV20085** 143339 143475*	-	-
XSPBU1006 119917	-	**XSPBU1006-64-S** 119928	**XSPBU1006-73-S** 119929	**XSDMLV2010** 284212 122258*	**XSDMRV2010** 284221 122267*	**XTSZDSKV4L-H2000W1000** 172701	**XTSZDSKV4R-H2000W1000** 172702
XSPBU1106 143221	**XSPBU1006-64** 119927	-	-	-	-	-	**XTSZDSKV4S-H2000W1100** 172503
XSPBU1206 119918	-	**XSPBU1206-66-S** 119930	**XSPBU1206-75-S** 119931	-	**XSDMRV2012** 284222 122268*	-	**XTSZDSKV4S-H2000W1200** 172504
XSPBU13506 143226	-	-	-	-	-	-	**XTSZDSKV4S-H2000W1350** 172505

Note * Finish in special RAL colour

wa_vt71113



wa_vt65113



VT08106



wa_vt66713



7	7	7	7	2	2	2	2
Section door closed left, for use on the right IP55	Section door closed double-wing IP55	Section door with glass (transparent) left, for use on the right IP55	Section door with glass (transparent) can be used for double-wing door IP55	Plinth width 425-1350 mm depth 400 - 1000 mm H = 100 mm	Plinth width 425-1350 mm depth 400 - 1000 mm H = 200 mm	Plinth for corner sections H = 100 mm	Plinth for corner sections H = 200 mm
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XSDMC2003 284198 186610*	-	-	-	-	-	-	-
XSDMC2004 177086 122244*	-	**XSDMD2004** 284203 122249*	-	**XAP010406** 283823 122091*	**XAP020406** 283837 122105*	-	-
XSDMC2006 284199 122245*	-	**XSDMD2006** 284204 122250*	-	**XAP010606** 283826 122381*	**XAP020606** 283840 122108*	**XAP010606C** 288868	**XAP020606C** 288890
XSDMC2008 284200 122246*	-	**XSDMD2008** 284701 122358*	-	**XAP010806** 283829 122097*	**XAP020806** 283843 122111*	-	-
XSDMC20085 143330 143466*	-	**XSDMC20085** 143330 143469*	-	**XAP0108506** 143305 143441*	**XAP0208506** 143318 143454*	-	-
XSDMC2010 284201 122247*	**XSDMC2010-S** 132952 171669*	-	**XSDMD2010-S** 143334 143470*	**XAP011006** 283832 122100*	**XAP021006** 283846 122114*	-	-
-	**XSDMC2011-S** 143331 143467*	-	**XSDMD2011-S** 143335 143471*	**XAP011106** 143310 143446*	**XAP021106** 143323 143459*	-	-
-	**XSDMC2012-S** 284202 122248*	-	**XSDMD2012-S** 143336 143472*	**XAP011206** 283834 122102*	**XAP021206** 283848 122116*	-	-
-	**XSDMC20135-S** 143332 143468*	-	**XSDMD20135-S** 143337 143473*	**XAP0113506** 143314 143450*	**XAP0213506** 143327 143463*	-	-

Note * Finish in special RAL colour

xEnergy Main Switchboards - General Overview, Section Depth 600 mm

wa_vt69513



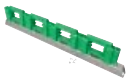
wa_vt15013



wa_vt58313



wa_vt33413



12	12	12	12	13	14	15
Plinth for add-on frame frame width 75 mm H = 100 mm	Plinth for add-on frame frame width 75 mm H = 200 mm	Plinth for add-on frame frame width 150 mm H = 100 mm	Plinth for add-on frame frame width 150 mm H = 200 mm	Cable strain relief rail	Fixing bracket for cable strain relief rail	Rail holder for main busbar
Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 set
XAP0101AF 289950 122391*	**XAP0201AF** 289951 122392*	**XAP01AF150** 150491 151703*	**XAP02AF150** 150492 151704*	**-**	**XNBW-R2** 106740	see page xx
XAP0101AF 289950 122391*	**XAP0201AF** 289951 122392*	**XAP01AF150** 150491 151703*	**XAP02AF150** 150492 151704*	**XAR04** 283850	**XNBW-R2** 106740	see page xx
XAP0101AF 289950 122391*	**XAP0201AF** 289951 122392*	**XAP01AF150** 150491 151703*	**XAP02AF150** 150492 151704*	**XAR06** 283851	**XNBW-R2** 106740	see page xx
XAP0101AF 289950 122391*	**XAP0201AF** 289951 122392*	**XAP01AF150** 150491 151703*	**XAP02AF150** 150492 151704*	**XAR08** 283852	**XNBW-R2** 106740	see page xx
XAP0101AF 289950 122391*	**XAP0201AF** 289951 122392*	**XAP01AF150** 150491 151703*	**XAP02AF150** 150492 151704*	**XAR085** 143183	**XNBW-R2** 106740	see page xx
XAP0101AF 289950 122391*	**XAP0201AF** 289951 122392*	**XAP01AF150** 150491 151703*	**XAP02AF150** 150492 151704*	**XAR10** 283853	**XNBW-R2** 106740	see page xx
XAP0101AF 289950 122391*	**XAP0201AF** 289951 122392*	**XAP01AF150** 150491 151703*	**XAP02AF150** 150492 151704*	**XAR11** 133076	**XNBW-R2** 106740	see page xx
XAP0101AF 289950 122391*	**XAP0201AF** 289951 122392*	**XAP01AF150** 150491 151703*	**XAP02AF150** 150492 151704*	**XAR12** 283854	**XNBW-R2** 106740	see page xx
XAP0101AF 289950 122391*	**XAP0201AF** 289951 122392*	**XAP01AF150** 150491 151703*	**XAP02AF150** 150492 151704*	**XAR135** 133077	**XNBW-R2** 106740	see page xx

Note * Finish in special RAL colour

xEnergy Main Switchboards

xEnergy Main Switchboards - General Overview, Section Depth 800 mm

wa_vt75013



wa_vt28313



VT10309



VT00111



VT10109



VT00811



Item numbers of the exploded pictorial view		1	1	1	1	1	1	1	1
		General articles							
Section width mm	Section depth mm	Frame	Frame 5000 A depth 200 mm	Corner section H = 2000 mm W = 650 mm D = 600 mm incl. rear and top panel	Corner section H = 2000 mm W = 850 mm D = 800 mm incl. rear and top panel	Corner section extension set 1050x1050 for 5000 A application	Height profile consisting of 4 vertical profiles	Height profile consisting of 4 vertical profiles for Box Solution	Height profile for section add-on 5000A application consisting of 4 vertical profiles
		Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
400	800	**XSFB0408** 284233 122276*	-	-	**XSC200808** 288867 141840*	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
600	800	**XSFB0608** 284236 122279*	-	-	**XSC200808** 288867 141840*	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
800	800	**XSFB0808** 284239 122282*	-	-	**XSC200808** 288867 141840*	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
850	800	**XSFB08508** 143346 143482*	-	-	**XSC200808** 288867 141840*	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
1000	800	**XSFB1008** 284242 122285*	-	-	**XSC200808** 288867 141840*	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
1100	800	**XSFB1108** 132991 133039*	-	-	**XSC200808** 288867 141840*	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
1200	800	**XSFB1208** 284244 122287*	-	-	**XSC200808** 288867 141840*	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
1350	800	**XSFB13508** 132992 133040*	-	-	**XSC200808** 288867 141840*	-	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*

Note * Finish in special RAL colour

xEnergy Main Switchboards - General Overview, Section Depth 800 mm

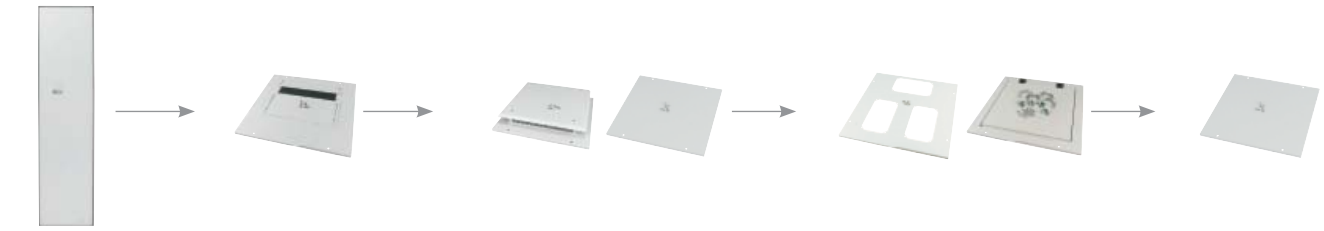
wa_vt68713 VT27209 wa_vt65713 wa_vt65613 VT22313 wa_vt25213 VT07906



8	9	10	10	3	3	3	11	11
Crossbar for rail holder	Rail holder for PEN	Add-on frame (section width 75 mm)	Add-on frame (section width 150 mm) for 5000 A application	Rear panel ventilated IP31	Rear panel ventilated IP42	Rear panel closed IP55	Separation panel section/section	Separation panel section/section depth 200 mm
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XBBB04 283859	**XBSP** 283872	**XSAF200108** 289909 122390*	-	**XSWV2004** 284360 122351*	**XTSZRV4-W425** 172524 186416*	**XSWC2004** 284355 122346*	**XPSS2008** 284179	-
XBBB06 283860	**XBSP** 283872	**XSAF200108** 289909 122390*	-	**XSWV2006** 284361 122352*	**XTSZRV4-W600** 172525 186417*	**XSWC2006** 284356 122347*	**XPSS2008** 284179	-
XBBB08 283861	**XBSP** 283872	**XSAF200108** 289909 122390*	-	**XSWV2008** 284362 122353*	**XTSZRV4-W800** 172526 186418*	**XSWC2008** 284357 122348*	**XPSS2008** 284179	-
XBBB085 143187	**XBSP** 283872	**XSAF200108** 289909 122390*	-	**XSWV20085** 143417 143553*	-	**XSWC20085** 143416 143552*	**XPSS2008** 284179	-
XBBB10 283862	**XBSP** 283872	**XSAF200108** 289909 122390*	-	**XSWV2010** 284363 122354*	**XTSZRV4-W1000** 172520 186412*	**XSWC2010** 284358 122349*	**XPSS2008** 284179	-
XBBB11 133098	**XBSP** 283872	**XSAF200108** 289909 122390*	-	**XSWV2011** 133002 133050*	**XTSZRV4-W1100** 172521 186413*	**XSWC2011** 133000 133048*	**XPSS2008** 284179	-
XBBB12 283863	**XBSP** 283872	**XSAF200108** 289909 122390*	-	**XSWV2012** 284364 122355*	**XTSZRV4-W1200** 172522 186414*	**XSWC2012** 284359 122350*	**XPSS2008** 284179	-
XBBB135 133099	**XBSP** 283872	**XSAF200108** 289909 122390*	-	**XSWV20135** 133003 133051*	**XTSZRV4-W1350** 172523 186415*	**XSWC20135** 133001 133049*	**XPSS2008** 284179	-

Note * Finish in special RAL colour

VT07706 wa_vt25313 wa_vt08713 wa_vt25513 wa_vt63213 wa_vt66113 wa_vt25513

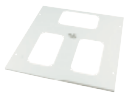


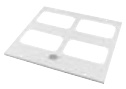
4	4	5	5	5	5	5	5	5	5	5
Side panel IP55	Side panel depth 200 mm IP55	Top panel Bottom panel of sev. parts IP30	Top panel Bottom panel of sev. parts 2 openings depth 400-800 mm IP30	Top panel ventilated IP31	Top panel Bottom panel closed IP55	Top panel Bottom panel closed depth 200 mm IP55	Top panel Bottom panel with flange IP55	Top panel with arc fault protection, depth 800 mm IP55	Top panel with arc fault protection and release for cable entry via cable connec-tion area, depth 800 mm IP55	Top panel Bottom panel for corner section IP55
Article No. per unit unit = 2 pc.	Article No. per unit unit = 2 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XAW2008 283858 122120*	-	**XSPBM0408** 284288 122303*	-	**XAD0408** 283486 122078*	**XSPTC0408** 284303 122318*	-	**XSPTF0408** 284318 122333*	**XSPTA0408** 107258 122517*	-	-
XAW2008 283858 122120*	-	**XSPBM0608** 284291 122306*	-	**XAD0608** 283489 122081*	**XSPTC0608** 284306 122321*	-	**XSPTF0608** 284321 122336*	**XSPTA0608** 107281 122520*	-	-
XAW2008 283858 122120*	-	**XSPBM0808** 284294 122309*	**XSPBM0808-1** 104534 122426*	**XAD0808** 283812 122084*	**XSPTC0808** 284309 122324*	-	**XSPTF0808** 284324 122339*	**XSPTA0808** 107284 122523*	**XSPTA0808-2** 192253	-
XAW2008 283858 122120*	-	**XSPBM08508** 143368 143504*	-	**XAD08508** 143292 143428*	**XSPTC08508** 143394 143530*	-	**XSPTF08508** 143407 143543*	**XSPTA08508** 143381 143517*	-	-
XAW2008 283858 122120*	-	**XSPBM1008** 104530 122422*	**XSPBM1008-1** 284297 122312*	**XAD1008** 283815 122087*	**XSPTC1008** 284312 122327*	-	**XSPTF1008** 284327 122342*	**XSPTA1008** 107287 122526*	**XSPTA1008-2** 192254	-
XAW2008 283858 122120*	-	**XSPBM1108** 133008 133056*	-	**XAD1108** 133010 133058*	**XSPTC1108** 133004 133052*	-	**XSPTF1108** 133006 133054*	**XSPTA1108** 133016 133064*	-	-
XAW2008 283858 122120*	-	**XSPBM1208** 104532 122424*	**XSPBM1208-1** 284300 122315*	**XAD1208** 283817 122089*	**XSPTC1208** 284315 122330*	-	**XSPTF1208** 284330 122345*	**XSPTA1208** 107290 122529*	**XSPTA1208-2** 192255	-
XAW2008 283858 122120*	-	**XSPBM13508** 133009 133057*	-	**XAD13508** 133011 133059*	**XSPTC13508** 133005 133053*	-	**XSPTF13508** 133007 133055*	**XSPTA13508** 133017 133065*	-	-

Note * Finish in special RAL colour

xEnergy Main Switchboards - General Overview, Section Depth 800 mm

wa_vt63213 | wa_vt25313 | wa_vt25613 | vt17417 | vt17317 | vt17617








5	5	5					
XF	XW						
Top panel Bottom panel with flange depth 600-800 mm IP55	Top panel of sev. parts IP30	Top panel for flanges IP55	Top panel Bottom panel for bus duct con- nection ventilated IP31	Top panel Bottom panel for bus duct con- nection ventilated IP42	Top panel Bottom panel for bus duct con- nection closed IP55	Size	Adapter frame for bus duct con- nection
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.		Article No. per unit unit = 1 pc.
-	-	-	**XAD3-0408-T** 187675	**XAD4-0408-T** 187686	**XAD5-0408-T** 187697	**Size 1**	**XNAD-LD1** 187704
XSPTF0608-XF 121441 122627*	-	-	**XAD3-0608-T** 187676	**XAD4-0608-T** 187687	**XAD5-0608-T** 187698	**Size 2**	**XNAD-LD2** 187705
XSPTF0808-XF 121443 122629*	-	-	**XAD3-0808-T** 187677	**XAD4-0808-T** 187688	**XAD5-0808-T** 187699	**Size 3**	**XNAD-LD3** 187706
-	-	-	-	-	-		
XSPTF1008-XF 121445 122631*	**XSPBM1008-MC** 158122 186386*	**XSPTF1008-MC** 158118 186382*	**XAD3-1008-T** 187678	**XAD4-1008-T** 187689	**XAD5-1008-T** 187700		
-	-	-	**XAD3-1108-T** 187679	**XAD4-1108-T** 187690	**XAD5-1108-T** 187701		
XSPTF1208-XF 121447 122633*	**XSPBM1208-MC** 158123 186387*	**XSPTF1208-MC** 158119 186383*	**XAD3-1208-T** 187680	**XAD4-1208-T** 187691	**XAD5-1208-T** 187702		
-	-	-	**XAD3-13508-T** 187681	**XAD4-13508-T** 187692	**XAD5-13508-T** 187703		

Note * Finish in special RAL colour

wa_vt14313



wa_vt14213

wa_vt14113

wa_vt14213

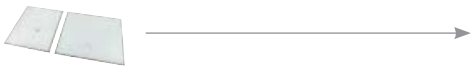
wa_vt14113

6	6	6	6	6	6
General articles					
Bottom panel with foam pad 40 mm, Section width 425-1350 mm IP20	Bottom panel with foam pad 40 mm, Section depth 400-800 mm IP20	Bottom panel width 35 mm Section width 425-1350 mm, no foam pad IP20	Bottom panel width 110 mm Section width 425-1350 mm, no foam pad IP20	Bottom panel width 35 mm Section depth 400-800 mm, no foam pad IP20	Bottom panel width 110 mm Section depth 400-800 mm, no foam pad IP20
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XSPBA0401 107679	**XSPBA0108** 107686 122537*	**XSPBAC0401** 107687	**XSPBAC0402** 107692	**XSPBAC0108** 107699 122550*	**XSPBAC0208** 107702 122553*
XSPBA0601 107680	**XSPBA0108** 107686 122537*	**XSPBAC0601** 107688	**XSPBAC0602** 107693	**XSPBAC0108** 107699 122550*	**XSPBAC0208** 107702 122553*
XSPBA0801 107681	**XSPBA0108** 107686 122537*	**XSPBAC0801** 107689	**XSPBAC0802** 107694	**XSPBAC0108** 107699 122550*	**XSPBAC0208** 107702 122553*
XSPBA08501 143355	**XSPBA0108** 107686 122537*	**XSPBAC08501** 143358	**XSPBAC08502** 143359	**XSPBAC0108** 107699 122550*	**XSPBAC0208** 107702 122553*
XSPBA1001 107682	**XSPBA0108** 107686 122537*	**XSPBAC1001** 107690	**XSPBAC1002** 107695	**XSPBAC0108** 107699 122550*	**XSPBAC0208** 107702 122553*
XSPBA1101 143356	**XSPBA0108** 107686 122537*	**XSPBAC1101** 143360	**XSPBAC1102** 143361	**XSPBAC0108** 107699 122550*	**XSPBAC0208** 107702 122553*
XSPBA1201 107683	**XSPBA0108** 107686 122537*	**XSPBAC1201** 107691	**XSPBAC1202** 107696	**XSPBAC0108** 107699 122550*	**XSPBAC0208** 107702 122553*
XSPBA13501 143357	**XSPBA0108** 107686 122537*	**XSPBAC13501** 143362	**XSPBAC13502** 143363	**XSPBAC0108** 107699 122550*	**XSPBAC0208** 107702 122553*

Note * Finish in special RAL colour

xEnergy Main Switchboards - General Overview, Section Depth 800 mm

wa_vt62713



wa_vt65013



wa_vt34213



VT22613



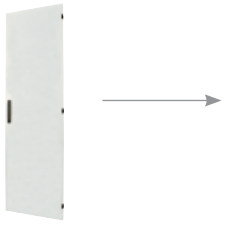
VT10513



6	6	6	6	7	7	7	7
	XF	PIFT		General articles			
Bottom panel galvaniz. 3 mm Section depth 400-800 mm IP55	Bottom panel galvaniz. 3 mm for XF sections Section depth 400-800 mm IP55	Bottom panel galvaniz. 3 mm for PIFT sections, Section depth 400-800 mm, IP55	Bottom panel galvaniz. 3 mm for PIFT sect. with door to switchgear a., Section depth 600-800 mm, IP55	Section door ventilated left IP31	Section door ventilated right IP31	Section door ventilated left IP42	Section door ventilated right IP42
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XSPBU0408 119919	-	-	-	**XSDMLV2004** 284209 122255*	**XSDMRV2004** 284218 122264*	**XTSZDSKV4L-H2000W425** 172497 186389*	**XTSZDSKV4R-H2000W425** 172500 186392*
XSPBU0608 119920	**XSPBU0608-42** 119932 119933	-	-	**XSDMLV2006** 284210 122256*	**XSDMRV2006** 284219 122265*	**XTSZDSKV4L-H2000W600** 172498 186390*	**XTSZDSKV4R-H2000W600** 172501 186393*
XSPBU0808 119921	**XSPBU0808-44** 119934	-	-	**XSDMLV2008** 284211 122257*	**XSDMRV2008** 284220 122266*	**XTSZDSKV4L-H2000W800** 172499 186391*	**XTSZDSKV4R-H2000W800** 172502 186394*
XSPBU08508 143217	-	-	-	**XSDMLV20085** 143338 143474*	**XSDMRV20085** 143339 143475*	-	-
XSPBU1008 119922	**XSPBU1008-64** 119935	**XSPBU1008-64-S** 119936	**XSPBU1008-73-S** 119937	**XSDMLV2010** 284212 122258*	**XSDMRV2010** 284221 122267*	**XTSZDSKV4L-H2000W1000** 172701 186428*	**XTSZDSKV4R-H2000W1000** 172702 186292*
XSPBU1108 143222	-	-	-	-	-	-	**XTSZDSKV4S-H2000W1100** 172503 186395*
XSPBU1208 119923	-	**XSPBU1208-66-S** 119938	**XSPBU1208-75-S** 119939	-	**XSDMRV2012** 284222 122268*	-	**XTSZDSKV4S-H2000W1200** 172504 186396*
XSPBU13508 143227	-	-	-	-	-	-	**XTSZDSKV4S-H2000W1350** 172505 186397*

Note * Finish in special RAL colour

wa_vt71113



wa_vt65113



VT08106



wa_vt66713



7	7	7	7	2	2	2	2
Section door closed left, for use on the right IP55	Section door closed double-wing IP55	Section door with glass (transparent) left, for use on the right IP55	Section door with glass (transparent) can be used for double-wing door IP55	Plinth width 425-1350 mm depth 400 - 1000 mm H = 100 mm	Plinth width 425-1350 mm depth 400 - 1000 mm H = 200 mm	Plinth for corner sections H = 100 mm	Plinth for corner sections H = 200 mm
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XSDMC2004 284198 122244*	-	**XSDMD2004** 284203 122249*	-	**XAP010408** 283824 122092*	**XAP020408** 283838 122106*	-	-
XSDMC2006 284199 122245*	-	**XSDMD2006** 284204 122250*	-	**XAP010608** 283827 122095*	**XAP020608** 283841 122109*	-	-
XSDMC2008 284200 122246*	-	**XSDMD2008** 284701 122358*	-	**XAP010808** 283830 122098*	**XAP020808** 283844 122112*	**XAP010808C** 288869	**XAP020808C** 288892
XSDMC20085 143330 143466*	-	**XSDMC20085** 143330 143469*	-	**XAP0108508** 143306 143442*	**XAP0208508** 143319 143455	-	-
XSDMC2010 284201 122247*	**XSDMC2010-S** 132952 171669*	-	**XSDMD2010-S** 143334 143470*	**XAP011008** 283833 122101*	**XAP021008** 283847 122115*	-	-
-	**XSDMC2011-S** 143331 143467*	-	**XSDMD2011-S** 143335 143471*	**XAP011108** 133012 133060*	**XAP021108** 133014 133062*	-	-
-	**XSDMC2012-S** 284202 122248*	-	**XSDMD2012-S** 143336 143472*	**XAP011208** 283835 122103*	**XAP021208** 283849 122117*	-	-
-	**XSDMC20135-S** 143332 143468*	-	**XSDMD20135-S** 143337 143473*	**XAP0113508** 133013 133061*	**XAP0213508** 133015 133063*	-	-

Note * Finish in special RAL colour

xEnergy Main Switchboards - General Overview, Section Depth 800 mm

wa_vt69513



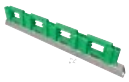
wa_vt15013



wa_vt58313



wa_vt33413

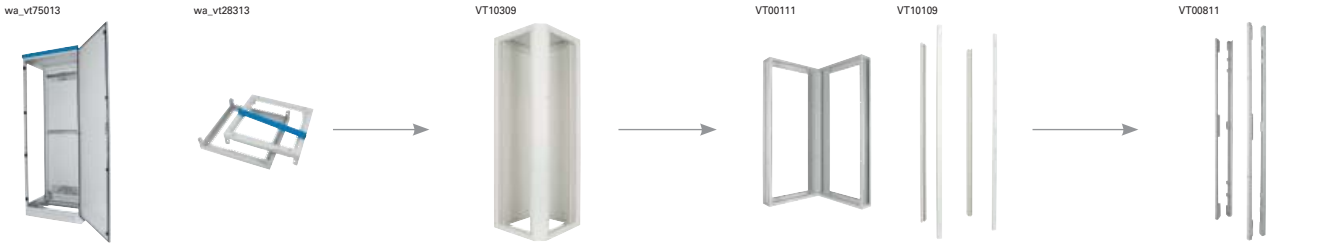


12	12	12	12	13	14	15
Plinth for add-on frame frame width 75 mm H = 100 mm	Plinth for add-on frame frame width 75 mm H = 200 mm	Plinth for add-on frame frame width 150 mm H = 100 mm	Plinth for add-on frame frame width 150 mm H = 200 mm	Cable strain relief rail	Fixing bracket for cable strain relief rail	Rail holder for main busbar
Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 set
XAP0101AF 289950 122391*	**XAP0201AF** 289951 122392*	**XAP01AF150** 150491 151703*	**XAP02AF150** 150492 151704*	**XAR04** 283850	**XNBW-R2** 106740	see page xx
XAP0101AF 289950 122391*	**XAP0201AF** 289951 122392*	**XAP01AF150** 150491 151703*	**XAP02AF150** 150492 151704*	**XAR06** 283851	**XNBW-R2** 106740	see page xx
XAP0101AF 289950 122391*	**XAP0201AF** 289951 122392*	**XAP01AF150** 150491 151703*	**XAP02AF150** 150492 151704*	**XAR08** 283852	**XNBW-R2** 106740	see page xx
XAP0101AF 289950 122391*	**XAP0201AF** 289951 122392*	**XAP01AF150** 150491 151703*	**XAP02AF150** 150492 151704*	**XAR085** 143183	**XNBW-R2** 106740	see page xx
XAP0101AF 289950 122391*	**XAP0201AF** 289951 122392*	**XAP01AF150** 150491 151703*	**XAP02AF150** 150492 151704*	**XAR10** 283853	**XNBW-R2** 106740	see page xx
XAP0101AF 289950 122391*	**XAP0201AF** 289951 122392*	**XAP01AF150** 150491 151703*	**XAP02AF150** 150492 151704*	**XAR11** 133076	**XNBW-R2** 106740	see page xx
XAP0101AF 289950 122391*	**XAP0201AF** 289951 122392*	**XAP01AF150** 150491 151703*	**XAP02AF150** 150492 151704*	**XAR12** 283854	**XNBW-R2** 106740	see page xx
XAP0101AF 289950 122391*	**XAP0201AF** 289951 122392*	**XAP01AF150** 150491 151703*	**XAP02AF150** 150492 151704*	**XAR135** 133077	**XNBW-R2** 106740	see page xx

Note * Finish in special RAL colour

xEnergy Main Switchboards

xEnergy Main Switchboards - General Overview, Section Depth 1000 mm



Item numbers of the exploded pictorial view		1	1	1	1	1	1	1	1
		General articles							
Section width mm	Section depth mm	Frame	Frame 5000 A depth 200 mm	Corner section H = 2000 mm W = 650 mm D = 600 mm incl. rear and top panel	Corner section H = 2000 mm W = 850 mm D = 800 mm incl. rear and top panel	Corner section extension set 1050x1050 for 5000 A application	Height profile consisting of 4 vertical profiles	Height profile consisting of 4 vertical profiles for Box Solution	Height profile for section add-on 5000A application consisting of 4 vertical profiles
		Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
425	1000	**XSFB0408** 284233 122276*	**XSFB0402** 150464 151686*	-	-	**XSC200808-E10** 150522 151725*	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
600	1000	**XSFB0608** 284236 122279*	**XSFB0602** 150465 151687*	-	-	**XSC200808-E10** 150522 151725*	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
800	1000	**XSFB0808** 284239 122282*	**XSFB0802** 150466 151688*	-	-	**XSC200808-E10** 150522 151725*	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
850	1000	**XSFB08508** 143346 143482*	**XSFB08502** 150467 151689*	-	-	**XSC200808-E10** 150522 151725*	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
1000	1000	**XSFB1008** 284242 122285*	**XSFB1002** 150468 151690*	-	-	**XSC200808-E10** 150522 151725*	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
1100	1000	**XSFB1108** 132991 133039*	**XSFB1102** 150469 151691*	-	-	**XSC200808-E10** 150522 151725*	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
1200	1000	**XSFB1208** 284244 122287*	**XSFB1202** 150480 151692*	-	-	**XSC200808-E10** 150522 151725*	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*
1350	1000	**XSFB13508** 132992 133040*	**XSFB13502** 150481 151693*	-	-	**XSC200808-E10** 150522 151725*	**XSFH20** 284245 122288*	**XTSPFH-H2000** 173053 186352*	**XSFH20-I-D** 150482 151694*

Note

* Finish in special RAL colour

[1)] Height profile consisting of 4 vertical profiles. The front stands are provided with preembossed punches (25 mm grid) over the entire height. Thereby hinges for module doors can be easily mounted at any position. Applications with: Box-Solution, XR-Mixed, main bus above, ...

xEnergy Main Switchboards - General Overview, Section Depth 1000 mm

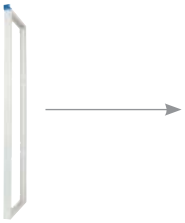
wa_vt68713



VT27209



wa_vt65713



wa_vt65613



VT22313



wa_vt25213



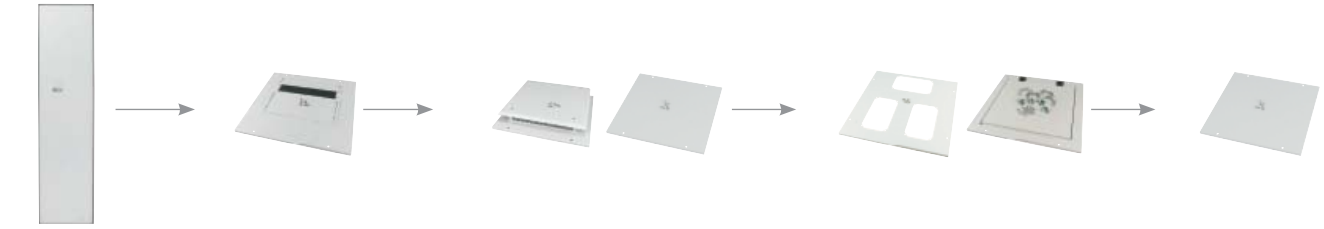
VT07906



8	9	10	10	3	3	3	11	11
Crossbar for rail holder	Rail holder for PEN	Add-on frame (section width 75 mm)	Add-on frame (section width 150 mm) for 5000 A application	Rear panel ventilated IP31	Rear panel ventilated IP42	Rear panel closed IP55	Separation panel section/section	Separation panel section/section depth 200 mm
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XBBB04 283859	**XBSP** 283872	-	**XSAF2000-150-1000** 150493 151703*	**XSWV2004** 284360 122351*	**XTSZRV4-W425** 172524 186416*	**XSWC2004** 284355 122346*	**XPSS2008** 284179	**XPSS2002** 150495
XBBB06 283860	**XBSP** 283872	-	**XSAF2000-150-1000** 150493 151703*	**XSWV2006** 284361 122352*	**XTSZRV4-W600** 172525 186417*	**XSWC2006** 284356 122347*	**XPSS2008** 284179	**XPSS2002** 150495
XBBB08 283861	**XBSP** 283872	-	**XSAF2000-150-1000** 150493 151703*	**XSWV2008** 284362 122353*	**XTSZRV4-W800** 172526 186418*	**XSWC2008** 284357 122348*	**XPSS2008** 284179	**XPSS2002** 150495
XBBB085 143187	**XBSP** 283872	-	**XSAF2000-150-1000** 150493 151703*	**XSWV20085** 143417 143553*	-	**XSWC20085** 143416 143552*	**XPSS2008** 284179	**XPSS2002** 150495
XBBB10 283862	**XBSP** 283872	-	**XSAF2000-150-1000** 150493 151703*	**XSWV2010** 284363 122354*	**XTSZRV4-W1000** 172520 186412*	**XSWC2010** 284358 122349*	**XPSS2008** 284179	**XPSS2002** 150495
XBBB11 133098	**XBSP** 283872	-	**XSAF2000-150-1000** 150493 151703*	**XSWV2011** 133002 133050*	**XTSZRV4-W1100** 172521 186413*	**XSWC2011** 133000 133048*	**XPSS2008** 284179	**XPSS2002** 150495
XBBB12 283863	**XBSP** 283872	-	**XSAF2000-150-1000** 150493 151703*	**XSWV2012** 284364 122355*	**XTSZRV4-W1200** 172522 186414*	**XSWC2012** 284359 122350*	**XPSS2008** 284179	**XPSS2002** 150495
XBBB135 133099	**XBSP** 283872	-	**XSAF2000-150-1000** 150493 151703*	**XSWV20135** 133003 133051*	**XTSZRV4-W1350** 172523 186415*	**XSWC20135** 133001 133049*	**XPSS2008** 284179	**XPSS2002** 150495

Note * Finish in special RAL colour

VT07706 wa_vt25313 wa_vt08713 wa_vt25513 wa_vt63213 wa_vt66113 wa_vt25513



4	4	5	5	5	5	5	5	5	5	5
Side panel IP55	Side panel depth 200 mm IP55	Top panel Bottom panel of sev. parts IP30	Top panel Bottom panel of sev. parts 2 openings depth 400-800 mm IP30	Top panel ventilated IP31	Top panel Bottom panel closed IP55	Top panel Bottom panel closed depth 200 mm IP55	Top panel Bottom panel with flange IP55	Top panel with arc fault protection, depth 800 mm IP55	Top panel with arc fault protection and release for cable entry via cable connection area, depth 800 mm IP55	Top panel Bottom panel for corner section IP55
Article No. per unit unit = 2 pc.	Article No. per unit unit = 2 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XAW2008 283858 122120*	**XAW2002** 150494 151706*	**XSPBM0408** 284288 122303*	-	**XAD0408** 283486 122078*	**XSPTC0408** 284303 122318*	**XSPTC0402** 150483 151695*	**XSPTF0408** 284318 122333*	**XSPTA0408** 107258 122517*	-	-
XAW2008 283858 122120*	**XAW2002** 150494 151706*	**XSPBM0408** 284288 122303*	-	**XAD0608** 283489 122081*	**XSPTC0608** 284306 122321*	**XSPTC0602** 150484 151696*	**XSPTF0608** 284321 122336*	**XSPTA0608** 107281 122520*	-	-
XAW2008 283858 122120*	**XAW2002** 150494 151706*	**XSPBM0408** 284288 122303*	**XSPBM0808-1** 104534 122426*	**XAD0808** 283812 122084*	**XSPTC0808** 284309 122324*	**XSPTC0802** 150485 151697*	**XSPTF0808** 284324 122339*	**XSPTA0808** 107284 122523*	**XSPTA0808-2** 192253	-
XAW2008 283858 122120*	**XAW2002** 150494 151706*	**XSPBM0408** 284288 122303*	-	**XAD08508** 143292 143428*	**XSPTC08508** 143394 143530*	**XSPTC08502** 150486 151698*	**XSPTF08508** 143407 143543*	**XSPTA08508** 143381 143517*	-	-
XAW2008 283858 122120*	**XAW2002** 150494 151706*	**XSPBM0408** 284288 122303*	**XSPBM1008-1** 284297 122312*	**XAD1008** 283815 122087*	**XSPTC1008** 284312 122327*	**XSPTC1002** 150487 151699*	**XSPTF1008** 284327 122342*	**XSPTA1008** 107287 122526*	**XSPTA1008-2** 192254	-
XAW2008 283858 122120*	**XAW2002** 150494 151706*	**XSPBM0408** 284288 122303*	-	**XAD1108** 133010 133058*	**XSPTC1108** 133004 133052*	**XSPTC1102** 150488 151700*	**XSPTF1108** 133006 133054*	**XSPTA1108** 133016 133064*	-	-
XAW2008 283858 122120*	**XAW2002** 150494 151706*	**XSPBM0408** 284288 122303*	**XSPBM1208-1** 284300 122315*	**XAD1208** 283817 122089*	**XSPTC1208** 284315 122330*	**XSPTC1202** 150489 151701*	**XSPTF1208** 284330 122345*	**XSPTA1208** 107290 122529*	**XSPTA1208-2** 192255	-
XAW2008 283858 122120*	**XAW2002** 150494 151706*	**XSPBM0408** 284288 122303*	-	**XAD13508** 133011 133059*	**XSPTC13508** 133005 133053*	**XSPTC13502** 150490 151702*	**XSPTF13508** 133007 133055*	**XSPTA13508** 133017 133065*	-	-

Note * Finish in special RAL colour

xEnergy Main Switchboards - General Overview, Section Depth 1000 mm

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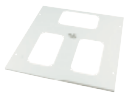		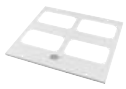						
5	5	5	6	6	6	6	6	6
XF	XW		General articles					
Top panel Bottom panel with flange depth 600-800 mm IP55	Top panel of sev. parts IP30	Top panel for flanges IP55	Bottom panel with foam pad 40 mm, Section width 425-1350 mm IP20	Bottom panel with foam pad 40 mm, Section depth 400-800 mm IP20	Bottom panel width 35 mm Section width 425-1350 mm, no foam pad IP20	Bottom panel width 110 mm Section width 425-1350 mm, no foam pad IP20	Bottom panel width 35 mm Section depth 400-800 mm, no foam pad IP20	Bottom panel width 110 mm Section depth 400-800 mm, no foam pad IP20
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
-	-	-	**XSPBA0401** 107679	**XSPBA0108** 107686 122537*	**XSPBAC0401** 107687	**XSPBAC0402** 107692	**XSPBAC0108** 107699 122550*	**XSPBAC0208** 107702 122553*
XSPTF0608-XF 121441 122627*	-	-	**XSPBA0601** 107680	**XSPBA0108** 107686 122537*	**XSPBAC0601** 107688	**XSPBAC0602** 107693	**XSPBAC0108** 107699 122550*	**XSPBAC0208** 107702 122553*
XSPTF0808-XF 121443 122629*	-	-	**XSPBA0801** 107681	**XSPBA0108** 107686 122537*	**XSPBAC0801** 107689	**XSPBAC0802** 107694	**XSPBAC0108** 107699 122550*	**XSPBAC0208** 107702 122553*
-	-	-	**XSPBA08501** 143355	**XSPBA0108** 107686 122537*	**XSPBAC08501** 143358	**XSPBAC08502** 143359	**XSPBAC0108** 107699 122550*	**XSPBAC0208** 107702 122553*
XSPTF1008-XF 121445 122631*	**XSPBM1008-MC** 158122 186386*	**XSPTF1008-MC** 158118 186382*	**XSPBA1001** 107682	**XSPBA0108** 107686 122537*	**XSPBAC1001** 107690	**XSPBAC1002** 107695	**XSPBAC0108** 107699 122550*	**XSPBAC0208** 107702 122553*
-	-	-	**XSPBA1101** 143356	**XSPBA0108** 107686 122537*	**XSPBAC1101** 143360	**XSPBAC1102** 143361	**XSPBAC0108** 107699 122550*	**XSPBAC0208** 107702 122553*
XSPTF1208-XF 121447 122633*	**XSPBM1208-MC** 158123 186387*	**XSPTF1208-MC** 158119 186383*	**XSPBA1201** 107683	**XSPBA0108** 107686 122537*	**XSPBAC1201** 107691	**XSPBAC1202** 107696	**XSPBAC0108** 107699 122550*	**XSPBAC0208** 107702 122553*
-	-	-	**XSPBA13501** 143357	**XSPBA0108** 107686 122537*	**XSPBAC13501** 143362	**XSPBAC13502** 143363	**XSPBAC0108** 107699 122550*	**XSPBAC0208** 107702 122553*

Note * Finish in special RAL colour

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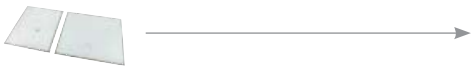

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wa_vt34213



VT22613



VT10513



6	6	6	6	7	7	7	7
	XF	PIFT		General articles			
Bottom panel galvaniz. 3 mm Section depth 400-800 mm IP55	Bottom panel galvaniz. 3 mm for XF sections Section depth 400-800 mm IP55	Bottom panel galvaniz. 3 mm for PIFT sections, Section depth 400-800 mm, IP55	Bottom panel galvaniz. 3 mm for PIFT sect. with door to switchgear a., Section depth 600-800 mm, IP55	Section door ventilated left IP31	Section door ventilated right IP31	Section door ventilated left IP42	Section door ventilated right IP42
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XSPBU0408 119919	-	-	-	**XSDMLV2004** 284209 122255*	**XSDMRV2004** 284218 122264*	**XTSZDSKV4L-H2000W425** 172497 186389*	**XTSZDSKV4R-H2000W425** 172500 186392*
XSPBU0608 119920	**XSPBU0608-42** 119932	-	-	**XSDMLV2006** 284210 122256*	**XSDMRV2006** 284219 122265*	**XTSZDSKV4L-H2000W600** 172498 186390*	**XTSZDSKV4R-H2000W600** 172501 186393*
XSPBU0808 119921	**XSPBU0808-44** 119934	-	-	**XSDMLV2008** 284211 122257*	**XSDMRV2008** 284220 122266*	**XTSZDSKV4L-H2000W800** 172499 186391*	**XTSZDSKV4R-H2000W800** 172502 186394*
XSPBU08508 143217	-	-	-	**XSDMLV20085** 143338 143474*	**XSDMRV20085** 143339 143475*	-	-
XSPBU1008 119922	**XSPBU1008-64** 119935	**XSPBU1008-64-S** 119936	**XSPBU1008-73-S** 119937	**XSDMLV2010** 284212 122258*	**XSDMRV2010** 284221 122267*	**XTSZDSKV4L-H2000W1000** 172701 186428*	**XTSZDSKV4R-H2000W1000** 172702 186292*
XSPBU1108 143222	-	-	-	-	-	-	**XTSZDSKV4S-H2000W1100** 172503 186395*
XSPBU1208 119923	-	**XSPBU1208-66-S** 119938	**XSPBU1208-75-S** 119939	-	**XSDMRV2012** 284222 122268*	-	**XTSZDSKV4S-H2000W1200** 172504 186396*
XSPBU13508 143227	-	-	-	-	-	-	**XTSZDSKV4S-H2000W1350** 172505 186397*

Note * Finish in special RAL colour

xEnergy Main Switchboards - General Overview, Section Depth 1000 mm

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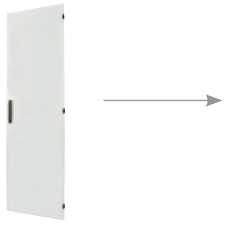


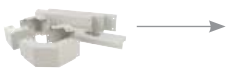
wa_vt65113



VT08106



wa_vt66713



7	7	7	7	2	2	2	2
Section door closed left, for use on the right IP55	Section door closed double-wing IP55	Section door with glass (transparent) left, for use on the right IP55	Section door with glass (transparent) can be used for double-wing door IP55	Plinth width 425-1350 mm depth 400 - 1000 mm H = 100 mm	Plinth width 425-1350 mm depth 400 - 1000 mm H = 200 mm	Plinth for corner sections H = 100 mm	Plinth for corner sections H = 200 mm
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XSDMC2004 284198 122244*	-	**XSDMD2004** 284203 122249*	-	**XAP010410** 150496 151707*	**XAP020410** 150504 151715*	**XAP011010C** 150512 151723*	**XAP021010C** 150513 151724*
XSDMC2006 284199 122245*	-	**XSDMD2006** 284204 122250*	-	**XAP010610** 150497 151708*	**XAP020610** 150505 151716*	**XAP011010C** 150512 151723*	**XAP021010C** 150513 151724*
XSDMC2008 284200 122246*	-	**XSDMD2008** 284701 122358*	-	**XAP010810** 150498 151709*	**XAP020810** 150506 151717*	**XAP011010C** 150512 151723*	**XAP021010C** 150513 151724*
XSDMC20085 143330 143466*	-	**XSDMC20085** 143330 143469*	-	**XAP0108510** 150499 151710*	**XAP0208510** 150507 151718*	**XAP011010C** 150512 151723*	**XAP021010C** 150513 151724*
XSDMC2010 284201 122247*	**XSDMC2010-S** 132952 171669*	-	**XSDMD2010-S** 143334 143470*	**XAP011010** 150500 151711*	**XAP021010** 150508 151719*	**XAP011010C** 150512 151723*	**XAP021010C** 150513 151724*
-	**XSDMC2011-S** 143331 143467*	-	**XSDMD2011-S** 143335 143471*	**XAP011110** 150501 151712*	**XAP021110** 150509 151720*	**XAP011010C** 150512 151723*	**XAP021010C** 150513 151724*
-	**XSDMC2012-S** 284202 122248*	-	**XSDMD2012-S** 143336 143472*	**XAP011210** 150502 151713*	**XAP021210** 150510 151721*	**XAP011010C** 150512 151723*	**XAP021010C** 150513 151724*
-	**XSDMC20135-S** 143332 143468*	-	**XSDMD20135-S** 143337 143473*	**XAP0113510** 150503 151714*	**XAP0213510** 150511 151722*	**XAP011010C** 150512 151723*	**XAP021010C** 150513 151724*

Note * Finish in special RAL colour

wa_vt69513



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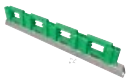


12	12	12	12	13	14	15
Plinth for add-on frame frame width 75 mm H = 100 mm	Plinth for add-on frame frame width 75 mm H = 200 mm	Plinth for add-on frame frame width 150 mm H = 100 mm	Plinth for add-on frame frame width 150 mm H = 200 mm	Cable strain relief rail	Fixing bracket for cable strain relief rail	Rail holder for main busbar
Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 set
-	-	-	-	**XAR135** 133077	**XNBW-R2** 106740	see page xx
-	-	-	-	**XAR135** 133077	**XNBW-R2** 106740	see page xx
-	-	-	-	**XAR135** 133077	**XNBW-R2** 106740	see page xx
-	-	-	-	**XAR135** 133077	**XNBW-R2** 106740	see page xx
-	-	-	-	**XAR135** 133077	**XNBW-R2** 106740	see page xx
-	-	-	-	**XAR135** 133077	**XNBW-R2** 106740	see page xx
-	-	-	-	**XAR135** 133077	**XNBW-R2** 106740	see page xx
-	-	-	-	**XAR135** 133077	**XNBW-R2** 106740	see page xx

Note * Finish in special RAL colour

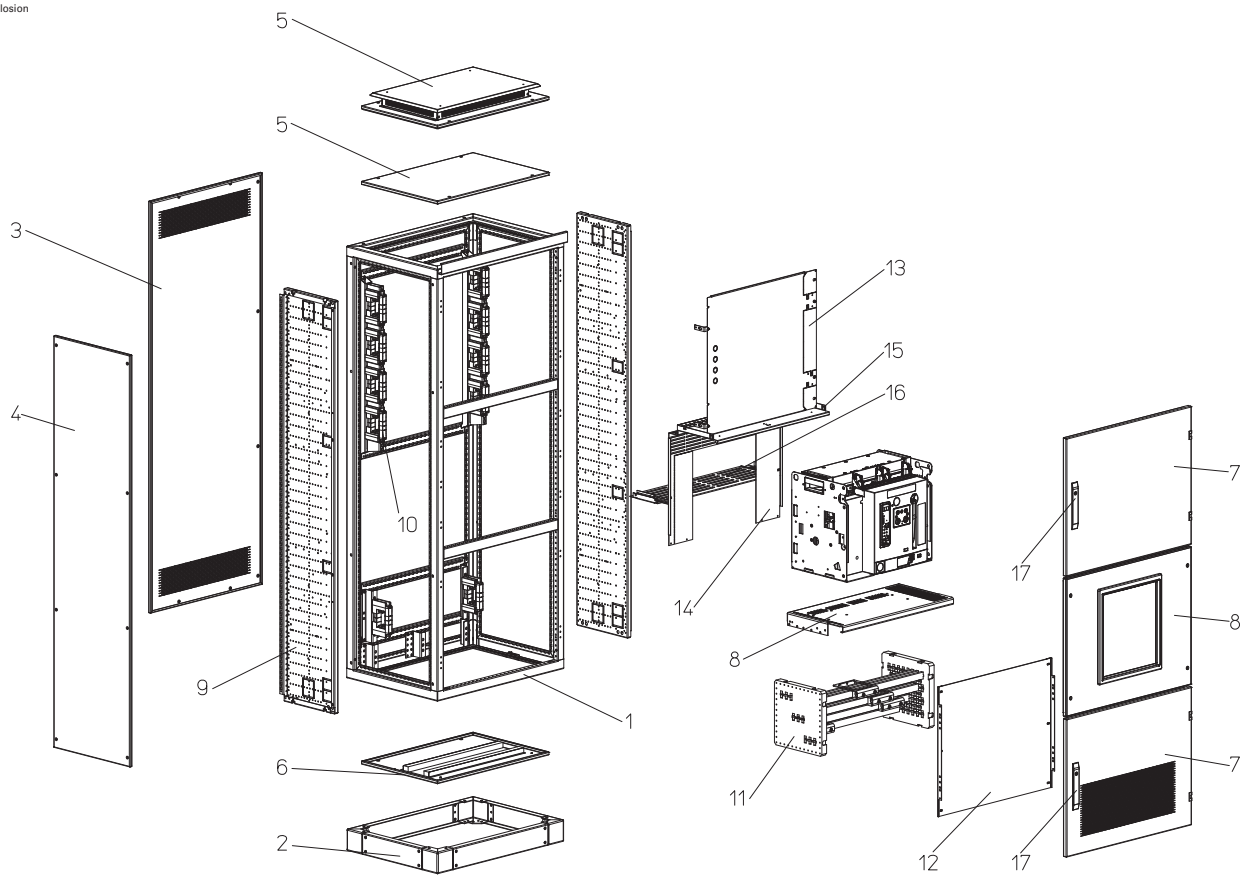
XP = Power sections

- IZMX16 ..... Page xx
- IZMX40 ..... Page xx
- IZM26 ..... Page xx
  - IZM20 ..... Page xx
  - IZM32 ..... Page xx
  - IZM40 ..... Page xx
  - IZM63 ..... Page xx
- IZM13 ..... Page xx
- NZM4 in Form 2 ..... Page xx
- NZM3/4 in Form 4 ..... Page xx

Notes

Description

IZM_Explosion



Abbreviations:
EVEN . . . . . Main busbars and connection area are on the same side
OPPO . . . . . Main busbars and connection area are opposite each other
UK . . . . . 3P+N (for UK market)

1 Frame
2 Plinth
3 Rear panel
4 Side panel
5 Top panel
6 Bottom panel
7 Door
8 Fitting kit
9 Universal mounting plate
10 Main busbar support
11 Cable connection system
12 PVC cover
13 Partition main busbar area/switchgear area (mounting plate)
14 Partition main busbar area/switchgear area
15 Partition switchgear area/switchgear area
16 Partition main busbar area/connection area
17 Lock

Features

- Widths 425/600/800/1000/1100/1200 mm
- fixed or withdrawable design
- 3 or 4 poles
- with another main busbar suitable as a coupling section
- 800-4000 A
- Form 4
- IP31, IP55 with protective cover
- suitable for drill-free cable connection, for top and bottom installation
- to be operated from outside
- suitable for switchgear with remote operation

Notes

Frame comes with a blue design strip.
Doors include a locking system for a 3 mm two-way key bit.
All parts are pre-drilled and include all fixing materials.
For IP55 a protective cover needs to be ordered in addition.
If you use a counter-locking system, please make sure the fitting kit is sufficient!
Where cover plates consisting of several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durostone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

wa_vt76213



Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Cut-out in the cover	Connection type	Mechanical locking [1]	Projection pover front edge mm
Circuit breaker IZMX16										
IZMX16	42	1600	600	425	3	F	Center	OPPO/EVEN	no	0
				600	3+4	F	Center	OPPO/EVEN	no	0
				425	3	W	Center	OPPO/EVEN	no	0
				600	3+4	W	Center	OPPO/EVEN	no	0
			800	425	3	F	Center	OPPO/EVEN	no	0
				600	3+4	F	Center	OPPO/EVEN	no	0
				425	3	W	Center	OPPO/EVEN	no	0
				600	3+4	W	Center	OPPO/EVEN	no	0

Note

[1] As it is impossible to present all configuration options for the IZM26 series with cross-locking, it may be necessary to select a suitable fitting kit from the list of „Configurations for the IZM26 series“ on page xx.











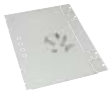


Fitting kit for outgoers with circuit breaker	Fitting kits for IZM	Fitting kits for IZM with modular doors	Add-on frame in combination with protective cover	Protective cover necessary for IP55	Front-Cover closed without cut-out	Partition connection/main busbar centre
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSMIB20	**XMI16/3+4/04/06/F__/E+O**	**XMI16/3__/04/ 06/F__/E+O/D**	**XMIX16-XDT**	**IZM-DC-F**	**XMC0604**	**XPIXBCB-H0402**
284257	132970	134441	168119	124289	102945	133087
	133018*	134462*	168120*		122417*	
XSMIB20	**XMI16/3+4/06/06/F__/E+O**	**XMI16/3+4/06/06/F__/E+O/D**	**XMIX16-XDT**	**IZM-DC-F**	**XMC0606**	**XPIXBCB-H0602**
284257	132971	134442	168119	124289	102946	133089
	133019*	134463*	168120*		122418*	
XSMIB20	**XMI16/3__/04/06/__W/E+O**	**XMI16/3__/04/06/__W/E+O/D**	**XMIX16-XDT**	**IZM-DC-F**	**XMC0604**	**XPIXBCB-H0402**
284257	132972	134443	168119	124289	102945	133087
	133020*	134464*	168120*		122417*	
XSMIB20	**XMI16/3+4/06/06/__W/E+O**	**XMI16/3+4/06/06/__W/E+O/D**	**XMIX16-XDT**	**IZM-DC-F**	**XMC0606**	**XPIXBCB-H0602**
284257	132973	134444	168119	124289	102946	133089
	133021*	134465*	168120*		122418*	
XSMIB20	**XMI16/3+4/04/06/F__/E+O**	**XMI16/3__/04/ 06/F__/E+O/D**	**XMIX16-XDT**	**IZM-DC-F**	**XMC0604**	**XPIXBCB-H0404**
284257	132970	134441	168119	124289	102945	133088
	133018*	134462*	168120*		122417*	
XSMIB20	**XMI16/3+4/06/06/F__/E+O**	**XMI16/3+4/06/06/F__/E+O/D**	**XMIX16-XDT**	**IZM-DC-F**	**XMC0606**	**XPIXBCB-H0604**
284257	132971	134442	168119	124289	102946	133090
	133019*	134463*	168120*		122418*	
XSMIB20	**XMI16/3__/04/06/__W/E+O**	**XMI16/3__/04/06/__W/E+O/D**	**XMIX16-XDT**	**IZM-DC-F**	**XMC0604**	**XPIXBCB-H0404**
284257	132972	134443	168119	124289	102945	133088
	133020*	134464*	168120*		122417*	
XSMIB20	**XMI16/3+4/06/06/__W/E+O**	**XMI16/3+4/06/06/__W/E+O/D**	**XMIX16-XDT**	**IZM-DC-F**	**XMC0606**	**XPIXBCB-H0604**
284257	132973	134444	168119	124289	102946	133090
	133021*	134465*	168120*		122418*	

Note * Finish in special RAL colour

wa_vt62413 | wa_vt70113 | VT23509 | wa_vt62813 | wa_vt70513 | wa_vt65313 | wa_vt63013









Partition switchgear/ switchgear/ at the top Article No. per unit	Partition switchgear/ connection/ main busbar rear Drawer unit Article No. per unit	Partition mounting plate switchgear/ main busbar Article No. per unit	Partition mounting plate switchgear/ main busbar pivoting Article No. per unit	Cover for connection area transparent Article No. per unit	Door to switchgear area closed up to IP55 Article No. per unit	Door to switchgear area with cut-out 96/96 up to IP55 Article No. per unit
XPMMB0402 135263	**XPIXFBMCB0604** 151674	**XPBMB0604** 284107	**XPBMB0604-ROT** 112312	**XPC0604** 284115	**XSDMC0604** 284194 122240*	**XSDMC0604-1-96** 112317 122607*
XPMMB0602 135264	**XPIXFBMCB0606** 151675	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-96** 112318 122608*
XPMMB0402 135263	**XPIXBMCB0604** 135261	**XPBMB0604** 284107	**XPBMB0604-ROT** 112312	**XPC0604** 284115	**XSDMC0604** 284194 122240*	**XSDMC0604-1-96** 112317 122607*
XPMMB0602 135264	**XPIXBMCB0606** 135262	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-96** 112318 122608*
XPMMB0402 135263	**XPIXFBMCB0604** 151674	**XPBMB0604** 284107	**XPBMB0604-ROT** 112312	**XPC0604** 284115	**XSDMC0604** 284194 122240*	**XSDMC0604-1-96** 112317 122607*
XPMMB0602 135264	**XPIXFBMCB0606** 151675	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-96** 112318 122608*
XPMMB0402 135263	**XPIXBMCB0604** 135261	**XPBMB0604** 284107	**XPBMB0604-ROT** 112312	**XPC0604** 284115	**XSDMC0604** 284194 122240*	**XSDMC0604-1-96** 112317 122607*
XPMMB0602 135264	**XPIXBMCB0606** 135262	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-96** 112318 122608*

Note * Finish in special RAL colour

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wa_vt65413



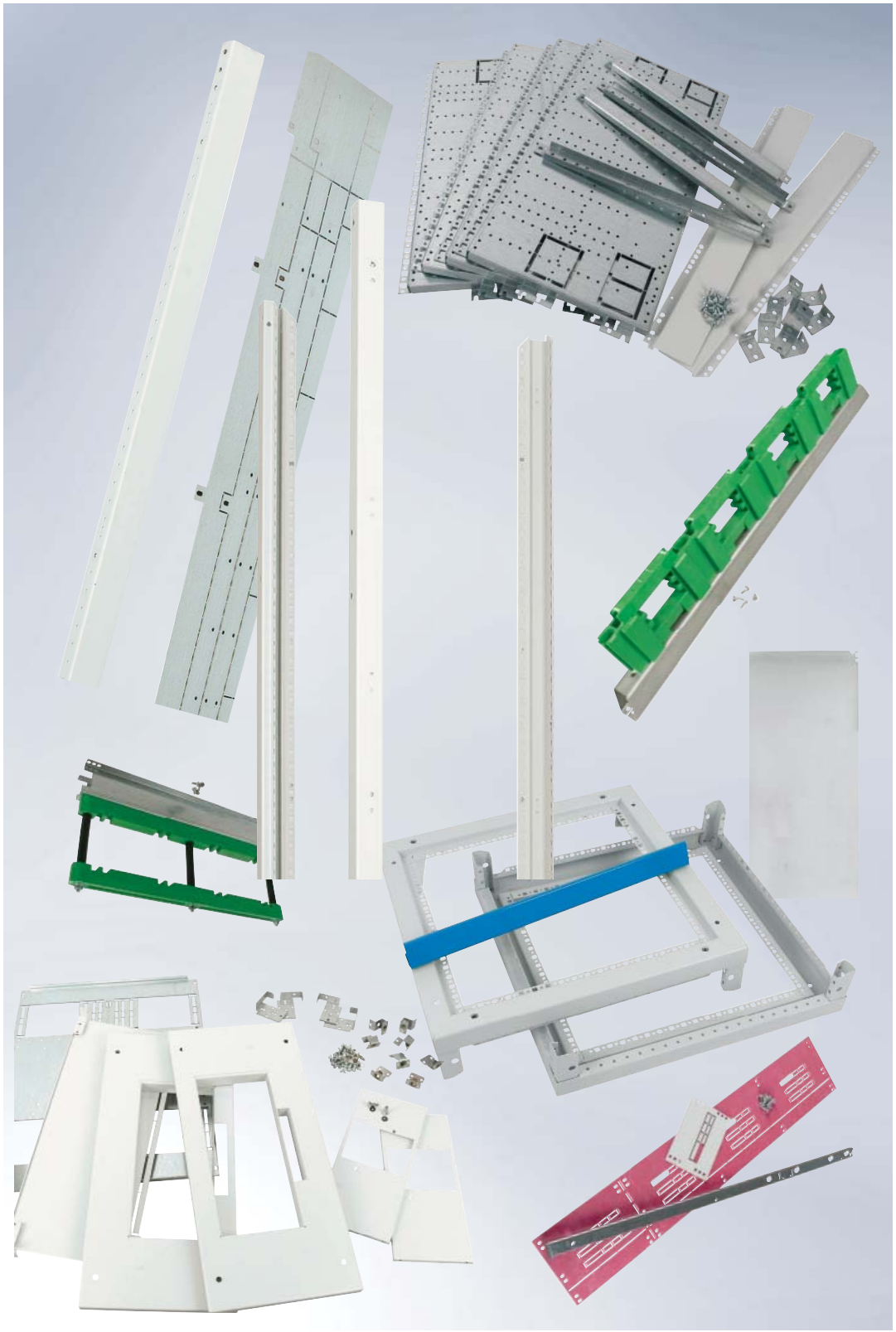
wa_vt65513



Door to switchgear area with cut-out 144/144 up to IP55	Door to switchgear area ventilated right up to IP31	Door to switchgear area ventilated left up to IP31
Article No. per unit	Article No. per unit	Article No. per unit
XSDMC0604-1-144	**XSDMRV0604**	**XSDMLV0604**
112327	284214	284205
122612*	122260*	122251*
XSDMC0606-1-144	**XSDMRV0606**	**XSDMLV0606**
112328	284215	284206
122613*	122261*	122252*
XSDMC0604-1-144	**XSDMRV0604**	**XSDMLV0604**
112327	284214	284205
122612*	122260*	122251*
XSDMC0606-1-144	**XSDMRV0606**	**XSDMLV0606**
112328	284215	284206
122613*	122261*	122252*
XSDMC0604-1-144	**XSDMRV0604**	**XSDMLV0604**
112327	284214	284205
122612*	122260*	122251*
XSDMC0606-1-144	**XSDMRV0606**	**XSDMLV0606**
112328	284215	284206
122613*	122261*	122252*
XSDMC0604-1-144	**XSDMRV0604**	**XSDMLV0604**
112327	284214	284205
122612*	122260*	122251*
XSDMC0606-1-144	**XSDMRV0606**	**XSDMLV0606**
112328	284215	284206
122613*	122261*	122252*

Note * Finish in special RAL colour

Components IZMX16



Overview of fitting kits for IZMX16



VT21809

Version 1: Fixed installation type
Version 2: Withdrawable
Version 3: Fixed, inclusive mechanical locking
Version 4: Withdrawable, inclusive mechanical lcoking
Version 5: Withdrawable, inclusive position indicator
O = OPPO
E = EVEN

Including base plate, front plate, fastening bracket and fastening material.

Key: **XMI16/3+4/06/08/F+W/E+O**

- Type
- Size of circuit breaker
- Number of poles
- Section width
- Section depth
- Installation type
- Connection type

Fitting kit Article No. per unit	Fitting kit with modular door Article No. per unit	Poles	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
		OPPO/EVEN	O	O	O	O	O	E	E	E	E	E	O	O	O	O	O	E	E	E	E	E
		Version	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Circuit breaker IZMX16																						
XMI16/3__/04/06/F__/E+O 132970 133018*	**XMI16/3__/04/06/F__/E+O/D** 134441 134462*		x					x														
XMI16/3+4/06/06/F__/E+O 132971 133019*	**XMI16/3+4/06/06/F__/E+O/D** 134442 134463*		x		x			x		x			x		x			x		x		
XMI16/3__/04/06/__W/E+O 132972 133020*	**XMI16/3__/04/06/__W/E+O/D** 134443 134464*			x					x													
XMI16/3+4/06/06/__W/E+O 132973 133021*	**XMI16/3+4/06/06/__W/E+O/D** 134444 134465*			x		x			x		x			x		x			x		x	

Note * Finish in special RAL colour

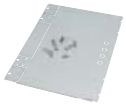
Accessories for XP Sections (IZMX16), Internal Separation

Separation panels / Mounting plates

wa_vt62813



wa_vt34313



Section width mm	Swivel-mounted separation panel Switchgear area/busbar area suitable for NZM3+4 IZM13 Article No. per unit	Partition Switchgear area/busbar area (mounting plate) Form 2/4 suitable for NZM3+4 IZMX16 IZMX40 Article No. per unit
425	**XPBMB0604-ROT** 112312	**XPBMB0604** 284107
600	**XPBMB0606-ROT** 112313	**XPBMB0606** 284108

Separation panels for EVEN type of connection (on the same side)

VT01009



Section width mm	Partition between incoming supply copper and connection copper on main busbar with IZMX16 Form 4 Article No. per unit
425	**XPIXBCB-E-04** 151676
600	**XPIXBCB-E-06** 151677

Partitions

wa_vt71313



wa_vt70113



wa_vt70513



wa_vt62413



Section width mm	Partition busbar area/connection area (for IZMX16) Section depth 600 mm Form 2/4 Article No. per unit	Partition busbar area/connection area (for IZMX16) Section depth 800 mm Form 2/4 Article No. per unit	Partition busbar area/switchgear area (for IZMX16) Form 2/4 withdrawable Article No. per unit	Partition busbar area/switchgear area (for IZMX16) Form 2/4 fixed Article No. per unit	Partition connection area plexiglass cover Form 4 Article No. per unit	Partition Switchgear area/ Switchgear area Form 4 Article No. per unit
425	**XPIXBCB-H-0402** 133087	**XPIXBCB-H-0404** 133088	**XPIXMCB0604** 135261	**XPIXFBMCB0604** 151674	**XPC0604** 284115	**XPMMB0402** 135263
600	**XPIXBCB-H-0602** 133089	**XPIXBCB-H-0604** 133090	**XPIXMCB0606** 135262	**XPIXFBMCB0606** 151675	**XPC0606** 284116	**XPMMB0602** 135264

Accessories

Accessories

VT24209 wa_vt57313 wa_vt72713





Door sealing frame to cover the door cut-out for IZMX16 fixed (Accessory in scope of delivery)	Door sealing frame to cover the door cut-out for IZMX16 withdrawable (Accessory in scope of delivery)	Add-on frame in combination with protective cover	Protective cover made of plexi-glass for IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
IZMX-DEG16-F 124335	**IZMX-DEG16-W** 124390	**XMIX16-XDT** 168119 168120*	**IZMX-DC-16** 124289

Partition extension (5000 A)

wa_vt71313



Section width mm	Partition extension for 5000 A application busbar area/main busbar area (suitable for IZM and NZM)
	Article No. per unit
425	**XPIBCB-H-04019** 150514
600	**XPIBCB-H-06019** 150515

Snap-on covers

wa_vt33613



Section width mm	Snap-on cover without cut-out
	Article No. per unit
425	**XMC0604** 102945
600	**XMC0606** 102946

Note * Finish in special RAL colour

wa_vt07914



Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Cut-out in the cover	Connection type	Mechanical locking	Projection pover front edge mm
Circuit breaker IZMX16										
IZMX16	42	1600	600	800	3	F	-	OPPO	yes	0
				1000	4	F	-	OPPO	yes	0
				800	3	W	-	OPPO	yes	0
				1000	4	W	-	OPPO	yes	0
			800	800	3	F	-	OPPO	yes	0
				1000	4	F	-	OPPO	yes	0
				800	3	W	-	OPPO	yes	0
				1000	4	W	-	OPPO	yes	0

XP Section Incoming Supply/Outgoing with 2xIZMX16, Rear-mounted Main Busbars (HSS)

VT00109



VT68314



VT68114



wa_vt57313



wa_vt72713



vt14717



VT65614



wa_vt70513



Fitting kit for outgoers with circuit breaker	Fitting kit incl. supporting plate rear/upper/bottom partitionn	Snap-on covers	Add-on frame in combination with protective cover	Protective cover necessary for IP55	Partition/ Separation panel vertical cable connection top	Partition/ Separation panel vertical cable connection bottom	Cover connection area
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSMIB20 284257	**XMIX16W0802** 174557	**XMIX16F0802C** 174559	**XMIX16-XDT** 168119 168120*	**IZM-DC16-F** 124289	**XPIX16CCB-T-06** 177614	**XPIX16CCB-B-06** 174567	**XPC060802** 174569
XSMIB20 284257	**ZMX16W1002** 174558	**XMIX16F1002C** 174560	**XMIX16-XDT** 168119 168120*	**IZM-DC16-F** 124289	**XPIX16CCB-T-06** 177614	**XPIX16CCB-B-06** 174567	**XPC061002** 174570
XSMIB20 284257	**XMIX16W0802** 174557	**XMIX16W0802C** 174561	**XMIX16-XDT** 168119 168120*	**IZM-DC16-F** 124289	**XPIX16CCB-T-06** 177614	**XPIX16CCB-B-06** 174567	**XPC060802** 174569
XSMIB20 284257	**ZMX16W1002** 174558	**XMIX16W1002C** 174562	**XMIX16-XDT** 168119 168120*	**IZM-DC16-F** 124289	**XPIX16CCB-T-06** 177614	**XPIX16CCB-B-06** 174567	**XPC061002** 174570
XSMIB20 284257	**XMIX16W0802** 174557	**XMIX16F0802C** 174559	**XMIX16-XDT** 168119 168120*	**IZM-DC16-F** 124289	**XPIX16CCB-T-08** 177615	**XPIX16CCB-B-08** 174568	**XPC060802** 174569
XSMIB20 284257	**ZMX16W1002** 174558	**XMIX16F1002C** 174560	**XMIX16-XDT** 168119 168120*	**IZM-DC16-F** 124289	**XPIX16CCB-T-08** 177615	**XPIX16CCB-B-08** 174568	**XPC061002** 174570
XSMIB20 284257	**XMIX16W0802** 174557	**XMIX16W0802C** 174561	**XMIX16-XDT** 168119 168120*	**IZM-DC16-F** 124289	**XPIX16CCB-T-08** 177615	**XPIX16CCB-B-08** 174568	**XPC060802** 174569
XSMIB20 284257	**ZMX16W1002** 174558	**XMIX16W1002C** 174562	**XMIX16-XDT** 168119 168120*	**IZM-DC16-F** 124289	**XPIX16CCB-T-08** 177615	**XPIX16CCB-B-08** 174568	**XPC061002** 174570

Note * Finish in special RAL colour

wa_vt71313



wa_vt70113



wa_vt65313



wa_vt63013



wa_vt63013



wa_vt65413



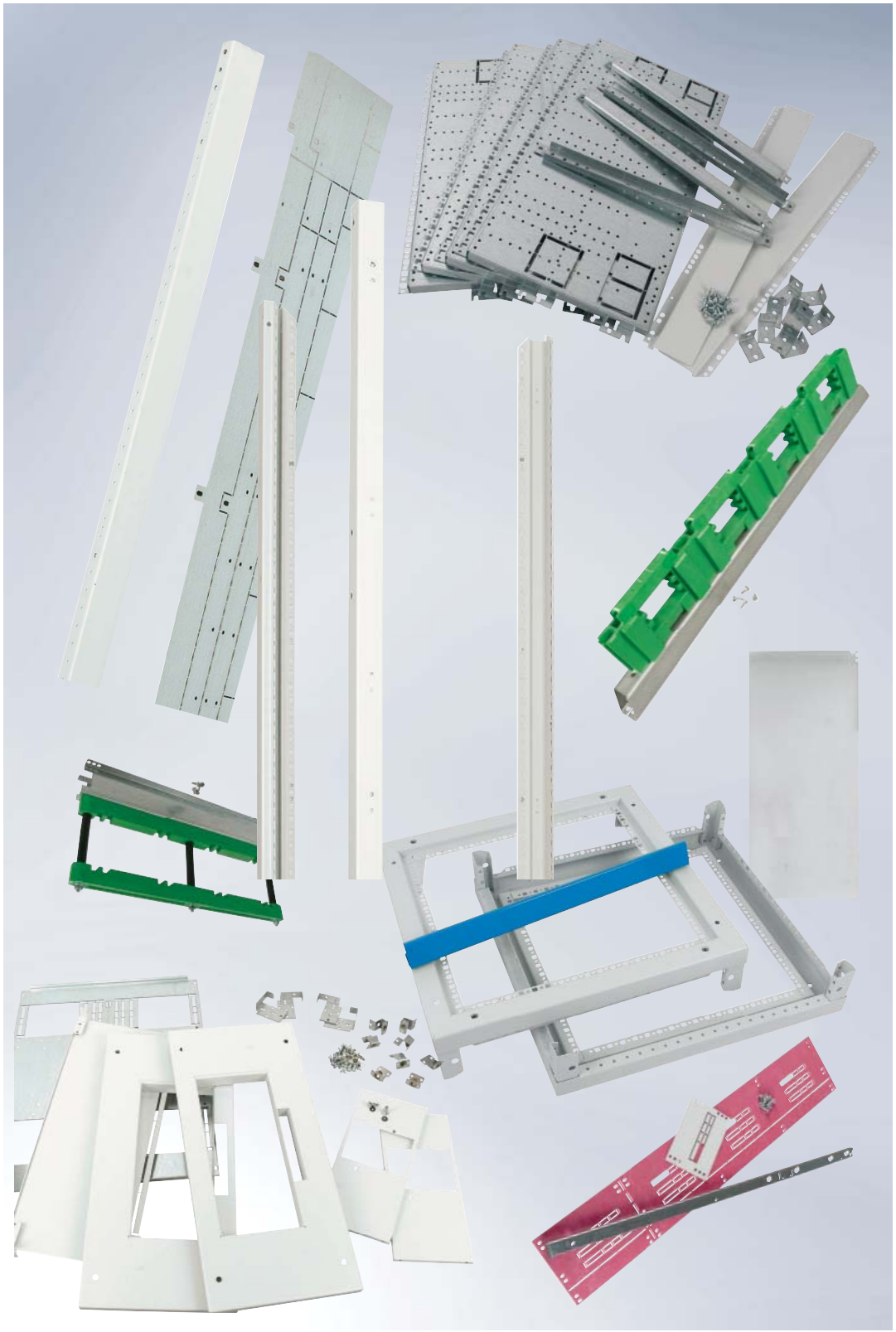
wa_vt65513



Partition connection/ main busbar center Article No. per unit	Partition switchgear area/main busbarmounting plates Article No. per unit	Door to switchgear area closed up to IP55 Article No. per unit	Door to switchgear area with cut-out 96/96 up to IP55 Article No. per unit	Door to switchgear area mit Ausschnitt 144/144 up to IP55 Article No. per unit	Door to switchgear area ventilated right up to IP31 Article No. per unit	Door to switchgear area ventilated left up to IP31 Article No. per unit
XPIXBCB-H-0802 174563	**XPBMB0608-S** 174571	**XSDMC0608** 284196 122242*	**XSDMC0608-1-96** 113319 122609*	**XSDMC0608-1-144** 112329 122614*	**XSDMRV0608** 284216 122262*	**XSDMLV0608** 284207 122253*
XPIXBCB-H-1002 174564	**XPBMB0610-S** 174572	**XSDMC06010** 285506 122374*	**XSDMC0610-1-96** 113320 122610*	**XSDMC0610-1-144** 112330 122615*	**XSDMRV06010** 132997 133045*	**XSDMLV0610** 285507 122375*
XPIXBCB-H-0802 174563	**XPBMB0608-S** 174571	**XSDMC0608** 284196 122242*	**XSDMC0608-1-96** 113319 122609*	**XSDMC0608-1-144** 112329 122614*	**XSDMRV0608** 284216 122262*	**XSDMLV0608** 284207 122253*
XPIXBCB-H-1002 174564	**XPBMB0610-S** 174572	**XSDMC06010** 285506 122374*	**XSDMC0610-1-96** 113320 122610*	**XSDMC0610-1-144** 112330 122615*	**XSDMRV06010** 132997 133045*	**XSDMLV0610** 285507 122375*
XPIXBCB-H-0804 174565	**XPBMB0608-S** 174571	**XSDMC0608** 284196 122242*	**XSDMC0608-1-96** 113319 122609*	**XSDMC0608-1-144** 112329 122614*	**XSDMRV0608** 284216 122262*	**XSDMLV0608** 284207 122253*
XPIXBCB-H-1004 174566	**XPBMB0610-S** 174572	**XSDMC06010** 285506 122374*	**XSDMC0610-1-96** 113320 122610*	**XSDMC0610-1-144** 112330 122615*	**XSDMRV06010** 132997 133045*	**XSDMLV0610** 285507 122375*
XPIXBCB-H-0804 174565	**XPBMB0608-S** 174571	**XSDMC0608** 284196 122242*	**XSDMC0608-1-96** 113319 122609*	**XSDMC0608-1-144** 112329 122614*	**XSDMRV0608** 284216 122262*	**XSDMLV0608** 284207 122253*
XPIXBCB-H-1004 174566	**XPBMB0610-S** 174572	**XSDMC06010** 285506 122374*	**XSDMC0610-1-96** 113320 122610*	**XSDMC0610-1-144** 112330 122615*	**XSDMRV06010** 132997 133045*	**XSDMLV0610** 285507 122375*

Note * Finish in special RAL colour

Components IZMX16 Side/Side



Overview of fitting kits for IZMX16 – Side/Side

Incl. top/rear/bottom partition, incl. carrier plate and fixing material (not included: snap-on covers)

wa_vt68513



Section width mm	Installation type	Type Article No. per unit
800	fixed	**XMIX16F0802** 174555
1000	fixed	**XMIX16F1002** 174556
800	withdrawable	**XMIX16W0802** 174557
1000	withdrawable	**XMIX16W1002** 174558

Key: **XMIX16F0802**

Type
Size of circuit breaker
Installation type
Section width
Number of switchgear

Snap-on covers for IZMX16 – Side/Side

Incl. 2 snap-on covers, fixing brackets and screws

VT68114



Section width mm	Installation type	Type Article No. per unit
800	fixed	**XMIX16F0802C** 174559
1000	fixed	**XMIX16F1002C** 174560
800	withdrawable	**XMIX16W0802C** 174561
1000	withdrawable	**XMIX16W1002C** 174562

Vertical separation panel/partition for IZMX16 – Side/Side

Incl. vertical separation panel, vertical and horizontal carrier profiles, mounting blocks and all screws

VT65614



Section width mm	Installation type	Type Article No. per unit
800	fixed withdrawable	**XMIX16CCB-B-06** 174567
1000	fixed withdrawable	**XMIX16CCB-B-08** 174568

Accessories

Accessories

VT24209



wa_vt57313



wa_vt72713



Door sealing frame to cover the door cut-out for IZMX16 fixed (Accessory in scope of delivery)	Door sealing frame to cover the door cut-out for IZMX16 withdrawable (Accessory in scope of delivery)	Add-on frame in combination with protective cover	Protective cover made of plexi-glass for IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
IZMX-DEG16-F 124335	**IZMX-DEG16-W** 124390	**XMIX16-XDT** 168119 168120*	**IZMX-DC** 122926

Separation panel/Mounting plate

Incl. vertical separation panel, vertical and horizontal carrier profiles, mounting blocks and all screws

VT67714

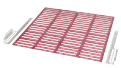


Section width mm	Type Article No. per unit
800	**XPBMB0608-S** 174567
1000	**XPBMB0610-S** 174572

Partition Connection/Main Busbar (Centre)

Consisting of a horizontal separation panel, guidance bracket and screws

VT69914



Section width mm	Section depth mm	Type Article No. per unit
800	600	**XPIXBCB-H-0802** 174563
	800	**XPIXBCB-H-0804** 174565
1000	600	**XPIXBCB-H-1002** 174564
	800	**XPIXBCB-H-1004** 174566

Cover for Connection Area

Consisting of 2 plexiglass covers, 4 fixing brackets and screws

VT67514



Section width mm	Type Article No. per unit
800	**XPC060802** 174569
1000	**XPC061002** 174570

wa_vt76213



Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Connection type	Mechanical locking	Projection pover front edge mm
Circuit breaker IZMX40									
IZMX40	85	630-1600	600	600	3	W	EVEN	no	0
				800	3+4	W	EVEN	yes	0
				1000	3+4	W	EVEN	yes	0
		630-3200	600	600	3	F	OPPO	no	0
				800	3+4	F	OPPO	yes	0
				1000	3+4	F	OPPO	yes	0
				600	3	F	EVEN	no	0
				800	3+4	F	EVEN	yes	0
				1000	3+4	F	EVEN	yes	0
				600	3	W	OPPO	no	0
				800	3+4	W	OPPO	yes	0
				1000	3+4	W	OPPO	yes	0

XP Section Incoming Supply IZMX40, Rear-mounted Main Busbars (HSS), Section depth 600 mm

VT00109



Fitting kit for outgoers with circuit breaker

Article No.
per unit

VT21809



Fitting kits for IZM

Article No.
per unit

wa_vt57313



Add-on frame

Article No.
per unit

wa_vt72713



Protective cover necessary for IP55

Article No.
per unit

wa_vt34113



Snap-on cover without cut-out

Article No.
per unit

VT01009



Partition/main busbar (with EVEN type of connection)

Article No.
per unit

XSMIB20 284257	**XMIX40W06** 166754 166767*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0606** 102946 122418*	**XPIX40BCB-E-06** 166742
XSMIB20 284257	**XMIX40W08** 166755 166768*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0608** 102947 122419*	**XPIX40BCB-E-08** 166743
XSMIB20 284257	**XMIX40W10** 166756 186750*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0610** 102948	**XPIX40BCB-E-10** 166744
XSMIB20 284257	**XMIX40F06** 166751 166764*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0606** 102946 122418*	-
XSMIB20 284257	**XMIX40F08** 166752 166765*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0608** 102947 122419*	-
XSMIB20 284257	**XMIX40F10** 166753 186753*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0610** 102948	-
XSMIB20 284257	**XMIX40F06** 166751 166764*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0606** 102946 122418*	**XPIX40BCB-E-06** 166742
XSMIB20 284257	**XMIX40F08** 166752 166765*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0608** 102947 122419*	**XPIX40BCB-E-08** 166743
XSMIB20 284257	**XMIX40F10** 166753 186753*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0610** 102948	**XPIX40BCB-E-10** 166744
XSMIB20 284257	**XMIX40W06** 166754 166767*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0606** 102946 122418*	-
XSMIB20 284257	**XMIX40W08** 166755 166768*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0608** 102947 122419*	-
XSMIB20 284257	**XMIX40W10** 166756 186750*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0610** 102948	-

Note * Finish in special RAL colour

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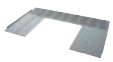
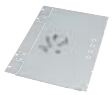
wa_vt62413 

VT05711 

VT05611 

wa_vt34313 

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wa_vt70513 

wa_vt65313 

Partition connection/ main busbar	Partition Switchgear area/ Switchgear area	Additional partition in 4000 A XP sections for chimney effect	Partition switchgear area/main busbar	Partition mounting plate switchgear/main busbar	Partition mounting plate switchgear/main busbar pivoting	Cover connection area transparent	Door to switchgear area closed up to IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XPIX40BCB-H-0602 166226	**XPMMB0603** 166239	-	**XPIX40WBMCB0606** 166220	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*
XPIX40BCB-H-0802 166227	**XPMMB0803** 166240	-	**XPIX40WBMCB0608** 166222	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPC0608** 284117	**XSDMC0608** 284196 122242*
XPIX40BCB-H-1002 180582	**XPMMB1003** 177111	-	**XPIX40WBMCB0610** 164348	**XPBMB0610** 102949	**XPBMB0610-ROT** 112315	**XPC0610** 133087	**XSDMC0610** 285506 122374*
XPIX40BCB-H-0602 166226	**XPMMB0603** 166239	-	**XPIX40FBMCB0606** 164349	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*
XPIX40BCB-H-0802 166227	**XPMMB0803** 166240	-	**XPIX40FBMCB0608** 166221	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPC0608** 284117	**XSDMC0608** 284196 122242*
XPIX40BCB-H-1002 180582	**XPMMB1003** 177111	-	**XPIX40WBMCB0610** 164348	**XPBMB0610** 102949	**XPBMB0610-ROT** 112315	**XPC0610** 133087	**XSDMC0610** 285506 122374*
XPIX40BCB-H-0602 166226	**XPMMB0603** 166239	-	**XPIX40FBMCB0606** 164349	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*
XPIX40BCB-H-0802 166227	**XPMMB0803** 166240	-	**XPIX40FBMCB0608** 166221	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPC0608** 284117	**XSDMC0608** 284196 122242*
XPIX40BCB-H-1002 180582	**XPMMB1003** 177111	-	**XPIX40WBMCB0610** 164348	**XPBMB0610** 102949	**XPBMB0610-ROT** 112315	**XPC0610** 133087	**XSDMC0610** 285506 122374*
XPIX40BCB-H-0602 166226	**XPMMB0603** 166239	-	**XPIX40WBMCB0606** 166220	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*
XPIX40BCB-H-0802 166227	**XPMMB0803** 166240	-	**XPIX40WBMCB0608** 166222	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPC0608** 284117	**XSDMC0608** 284196 122242*
XPIX40BCB-H-1002 180582	**XPMMB1003** 177111	-	**XPIX40WBMCB0610** 164348	**XPBMB0610** 102949	**XPBMB0610-ROT** 112315	**XPC0610** 133087	**XSDMC0610** 285506 122374*

Note * Finish in special RAL colour

XP Section Incoming Supply IZMX40, Rear-mounted Main Busbars (HSS), Section depth 600 mm

wa_vt63013



wa_vt63013



wa_vt65413



wa_vt65513



Door to switchgear area with cut-out 96/96 up to IP55	Door to switchgear area with cut-out 144/144 up to IP55	Door to switchgear area ventilated right up to IP31	Door to switchgear area ventilated left up to IP31
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDMC0606-1-96	**XSDMC0606-1-144**	**XSDMRV0606**	**XSDMLV0606**
112318	112328	284215	284206
122608*	122613*	122261*	122252*
XSDMC0608-1-96	**XSDMC0608-1-144**	**XSDMRV0608**	**XSDMLV0608**
112319	112329	284216	284207
122609*	122614*	122262*	122253*
XSDMC0610-1-96	**XSDMC0610-1-144**	**XSDMRV0610**	-
112320	112328	132997	
122610*	122613*	133045*	
XSDMC0606-1-96	**XSDMC0606-1-144**	**XSDMRV0606**	**XSDMLV0606**
112318	112328	284215	284206
122608*	122613*	122261*	122252*
XSDMC0608-1-96	**XSDMC0608-1-144**	**XSDMRV0608**	**XSDMLV0608**
112319	112329	284216	284207
122609*	122614*	122262*	122253*
XSDMC0610-1-96	**XSDMC0610-1-144**	**XSDMRV0610**	-
112320	112328	132997	
122610*	122613*	133045*	
XSDMC0606-1-96	**XSDMC0606-1-144**	**XSDMRV0606**	**XSDMLV0606**
112318	112328	284215	284206
122608*	122613*	122261*	122252*
XSDMC0608-1-96	**XSDMC0608-1-144**	**XSDMRV0608**	**XSDMLV0608**
112319	112329	284216	284207
122609*	122614*	122262*	122253*
XSDMC0610-1-96	**XSDMC0610-1-144**	**XSDMRV0610**	-
112320	112328	132997	
122610*	122613*	133045*	
XSDMC0606-1-96	**XSDMC0606-1-144**	**XSDMRV0606**	**XSDMLV0606**
112318	112328	284215	284206
122608*	122613*	122261*	122252*
XSDMC0608-1-96	**XSDMC0608-1-144**	**XSDMRV0608**	**XSDMLV0608**
112319	112329	284216	284207
122609*	122614*	122262*	122253*
XSDMC0610-1-96	**XSDMC0610-1-144**	**XSDMRV0610**	-
112320	112328	132997	
122610*	122613*	133045*	

Note * Finish in special RAL colour

wa_vt76213



Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Connection type	Mechanical locking	Projection pover front edge mm
Circuit breaker IZMX40									
IZMX40	85	630-3200	600	600	3	W	EVEN	no	0
				800	3+4	W	EVEN	yes	0
				1000	3+4	W	EVEN	yes	0
				600	3	W	EVEN	no	50
				800	3+4	W	EVEN	yes	50
				1000	3+4	W	EVEN	yes	50

VT00109



Fitting kit for outgoers with circuit breaker

Article No.
per unit

VT21809



Fitting kits for IZM

Article No.
per unit

wa_vt57313



Add-on frame

Article No.
per unit

wa_vt72713



Protective cover necessary for IP55

Article No.
per unit

wa_vt34113



Snap-on cover without cut-out

Article No.
per unit

VT01009



Partition/main busbar (with EVEN type of connection)

Article No.
per unit

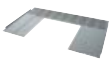
XSMIB20 284257	**XMIX40W06** 166754 166767*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0606** 102946 122418*	**XPIX40BCB-E-06** 166742
XSMIB20 284257	**XMIX40W08** 166755 166768*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0608** 102947 122419*	**XPIX40BCB-E-08** 166743
XSMIB20 284257	**XMIX40W10** 166756 186750*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0610** 102948	**XPIX40BCB-E-10** 166744
XSMIB20 284257	**XMIX40W06-50** 166757 166770*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0606** 102946 122418*	**XPIX40BCB-E-06** 166742
XSMIB20 284257	**XMIX40W08-50** 166758 166771*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0608** 102947 122419*	**XPIX40BCB-E-08** 166743
XSMIB20 284257	**XMIX40W10** 166756 186750*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0610** 102948	**XPIX40BCB-E-10** 166744

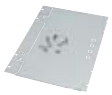
Note * Finish in special RAL colour

wa_vt71313 

wa_vt62413 

VT05711 

VT05611 

wa_vt34313 

wa_vt62813 

wa_vt70513 

wa_vt65313 

Partition connection/ main busbar	Partition Switchgear area/ Switchgear area	Additional partition in 4000 A XP sections for chimney effect	Partition switchgear area/main busbar	Partition mounting plate switchgear/main busbar	Partition mounting plate switchgear/main busbar pivoting	Cover connection area transparent	Door to switchgear area closed up to IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XPIX40BCB-H-0602 166226	**XPMMB0603** 166239	-	**XPIX40WBMCB0606** 166220	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*
XPIX40BCB-H-0802 166227	**XPMMB0803** 166240	-	**XPIX40WBMCB0608** 166222	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPC0608** 284117	**XSDMC0608** 284196 122242*
XPIX40BCB-H-1002 180582	**XPMMB1003** 177111	-	**XPIX40WBMCB0610** 164348	**XPBMB0610** 102949	**XPBMB0610-ROT** 112315	**XPC0610** 133087	**XSDMC0610** 285506 122374*
XPIX40BCB-H-0602 166226	**XPMMB0602** 135264	-	**XPIX40WBMCB0606** 166220	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*
XPIX40BCB-H-0802 166227	**XPMMB0802** 167314	-	**XPIX40WBMCB0608** 166222	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPC0608** 284117	**XSDMC0608** 284196 122242*
XPIX40BCB-H-1002 180582	**XPMMB1003** 177111	-	**XPIX40WBMCB0610** 164348	**XPBMB0610** 102949	**XPBMB0610-ROT** 112315	**XPC0610** 133087	**XSDMC0610** 285506 122374*

Note * Finish in special RAL colour

wa_vt63013



wa_vt63013



wa_vt65413



wa_vt65513



Door to switchgear area with cut-out 96/96 up to IP55	Door to switchgear area with cut-out 144/144 up to IP55	Door to switchgear area ventilated right up to IP31	Door to switchgear area ventilated left up to IP31
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDMC0606-1-96	**XSDMC0606-1-144**	**XSDMRV0606**	**XSDMLV0606**
112318	112328	284215	284206
122608*	122613*	122261*	122252*
XSDMC0608-1-96	**XSDMC0608-1-144**	**XSDMRV0608**	**XSDMLV0608**
112319	112329	284216	284207
122609*	122614*	122262*	122253*
XSDMC0610-1-96	**XSDMC0610-1-144**	**XSDMRV0610**	**-**
112320	112328	132997	
122610*	122613*	133045*	
XSDMC0606-1-96	**XSDMC0606-1-144**	**XSDMRV0606**	**XSDMLV0606**
112318	112328	284215	284206
122608*	122613*	122261*	122252*
XSDMC0608-1-96	**XSDMC0608-1-144**	**XSDMRV0608**	**XSDMLV0608**
112319	112329	284216	284207
122609*	122614*	122262*	122253*
XSDMC0610-1-96	**XSDMC0610-1-144**	**XSDMRV0610**	**-**
112320	112328	132997	
122610*	122613*	133045*	

Note * Finish in special RAL colour

wa_vt76213



Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Connection type	Mechanical locking	Projection pover front edge mm
Circuit breaker IZMX40									
IZMX40	85	630-4000	800	600	3	F	OPPO	no	0
				800	3+4	F	OPPO	yes	0
				1000	3+4	F	OPPO	yes	0
				600	3	F	EVEN	no	0
				800	3+4	F	EVEN	yes	0
				1000	3+4	F	EVEN	yes	0
				600	3	W	OPPO	no	0
				800	3+4	W	OPPO	yes	0
				1000	3+4	W	OPPO	yes	0
				600	3	W	EVEN	no	0
				800	3+4	W	EVEN	yes	0
				1000	3+4	W	EVEN	yes	0

XP Section Incoming Supply IZMX40, Rear-mounted Main Busbars (HSS), Section depth 800 mm

VT00109



Fitting kit for outgoers with circuit breaker

Article No.
per unit

VT21809



Fitting kits for IZM

Article No.
per unit

wa_vt57313



Add-on frame

Article No.
per unit

wa_vt72713



Protective cover necessary for IP55

Article No.
per unit

wa_vt34113



Snap-on cover without cut-out

Article No.
per unit

VT01009



Partition/main busbar (with EVEN type of connection)

Article No.
per unit

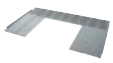
XSMIB20 284257	**XMIX40F06** 166751 166764*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0606** 102946 122418*	-
XSMIB20 284257	**XMIX40F08** 166752 166765*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0608** 102947 122419*	-
XSMIB20 284257	**XMIX40F10** 166753 166766*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0610** 102948 122420*	-
XSMIB20 284257	**XMIX40F06** 166751 166764*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0606** 102946 122418*	**XPIX40BCB-E-06** 166742
XSMIB20 284257	**XMIX40F08** 166752 166765*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0608** 102947 122419*	**XPIX40BCB-E-08** 166743
XSMIB20 284257	**XMIX40F10** 166753 166766*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0610** 102948 122420*	**XPIX40BCB-E-10** 166744
XSMIB20 284257	**XMIX40W06** 166754 166767*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0606** 102946 122418*	-
XSMIB20 284257	**XMIX40W08** 166755 166768*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0608** 102947 122419*	-
XSMIB20 284257	**XMIX40W10** 166756 166769*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0610** 102948 122420*	-
XSMIB20 284257	**XMIX40W06** 166754 166767*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0606** 102946 122418*	**XPIX40BCB-E-06** 166742
XSMIB20 284257	**XMIX40W08** 166755 166768*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0608** 102947 122419*	**XPIX40BCB-E-08** 166743
XSMIB20 284257	**XMIX40W10** 166756 166769*	**XMIX40-XDT** 166750	**IZM-DC** 122926	**XMC0610** 102948 122420*	**XPIX40BCB-E-10** 166744

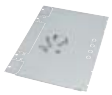
Note * Finish in special RAL colour

wa_vt71313 

wa_vt62413 

VT05711 

VT05611 

wa_vt34313 

wa_vt62813 

wa_vt70513 

wa_vt65313 

Partition connection/ main busbar	Partition Switchgear area/ Switchgear area	Additional partition in 4000 A XP sections for chimney effect	Partition switchgear area/main busbar	Partition mounting plate switchgear/main busbar	Partition mounting plate switchgear/main busbar pivoting	Cover connection area transparent	Door to switchgear area closed up to IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XPIX40BCB-H-0604 166223	**XPMMB0603** 166239	-	**XPIX40FBMCB0606** 164349	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*
XPIX40BCB-H-0804 166224	**XPMMB0803** 166240	-	**XPIX40FBMCB0608** 166221	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPC0608** 284117	**XSDMC0608** 284196 122242*
XPIX40BCB-H-1004 166225	**XPMMBA10** 166698	**XPPBMV10** 166741	**XPIX40FBMCB0610** 164347	**XPBMB0510** 133068	**XPBMB0510-ROT** 149191	**XPC0610** 133078	**XSDMC0610** 285506 122374*
XPIX40BCB-H-0604 166223	**XPMMB0603** 166239	-	**XPIX40FBMCB0606** 164349	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*
XPIX40BCB-H-0804 166224	**XPMMB0803** 166240	-	**XPIX40FBMCB0608** 166221	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPC0608** 284117	**XSDMC0608** 284196 122242*
XPIX40BCB-H-1004 166225	**XPMMBA10** 166698	**XPPBMV10** 166741	**XPIX40FBMCB0610** 164347	**XPBMB0510** 133068	**XPBMB0510-ROT** 149191	**XPC0610** 133078	**XSDMC0610** 285506 122374*
XPIX40BCB-H-0604 166223	**XPMMB0603** 166239	-	**XPIX40WBMCB0606** 166220	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*
XPIX40BCB-H-0804 166224	**XPMMB0803** 166240	-	**XPIX40WBMCB0608** 166222	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPC0608** 284117	**XSDMC0608** 284196 122242*
XPIX40BCB-H-1004 166225	**XPMMBA10** 166698	**XPPBMV10** 166741	**XPIX40WBMCB0610** 164348	**XPBMB0510** 133068	**XPBMB0510-ROT** 149191	**XPC0610** 133078	**XSDMC0610** 285506 122374*
XPIX40BCB-H-0604 166223	**XPMMB0603** 166239	-	**XPIX40WBMCB0606** 166220	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*
XPIX40BCB-H-0804 166224	**XPMMB0803** 166240	-	**XPIX40WBMCB0608** 166222	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPC0608** 284117	**XSDMC0608** 284196 122242*
XPIX40BCB-H-1004 166225	**XPMMBA10** 166698	**XPPBMV10** 166741	**XPIX40WBMCB0610** 164348	**XPBMB0510** 133068	**XPBMB0510-ROT** 149191	**XPC0610** 133078	**XSDMC0610** 285506 122374*

Note * Finish in special RAL colour

XP Section Incoming Supply IZMX40, Rear-mounted Main Busbars (HSS), Section depth 800 mm

wa_vt63013



wa_vt63013



wa_vt65413



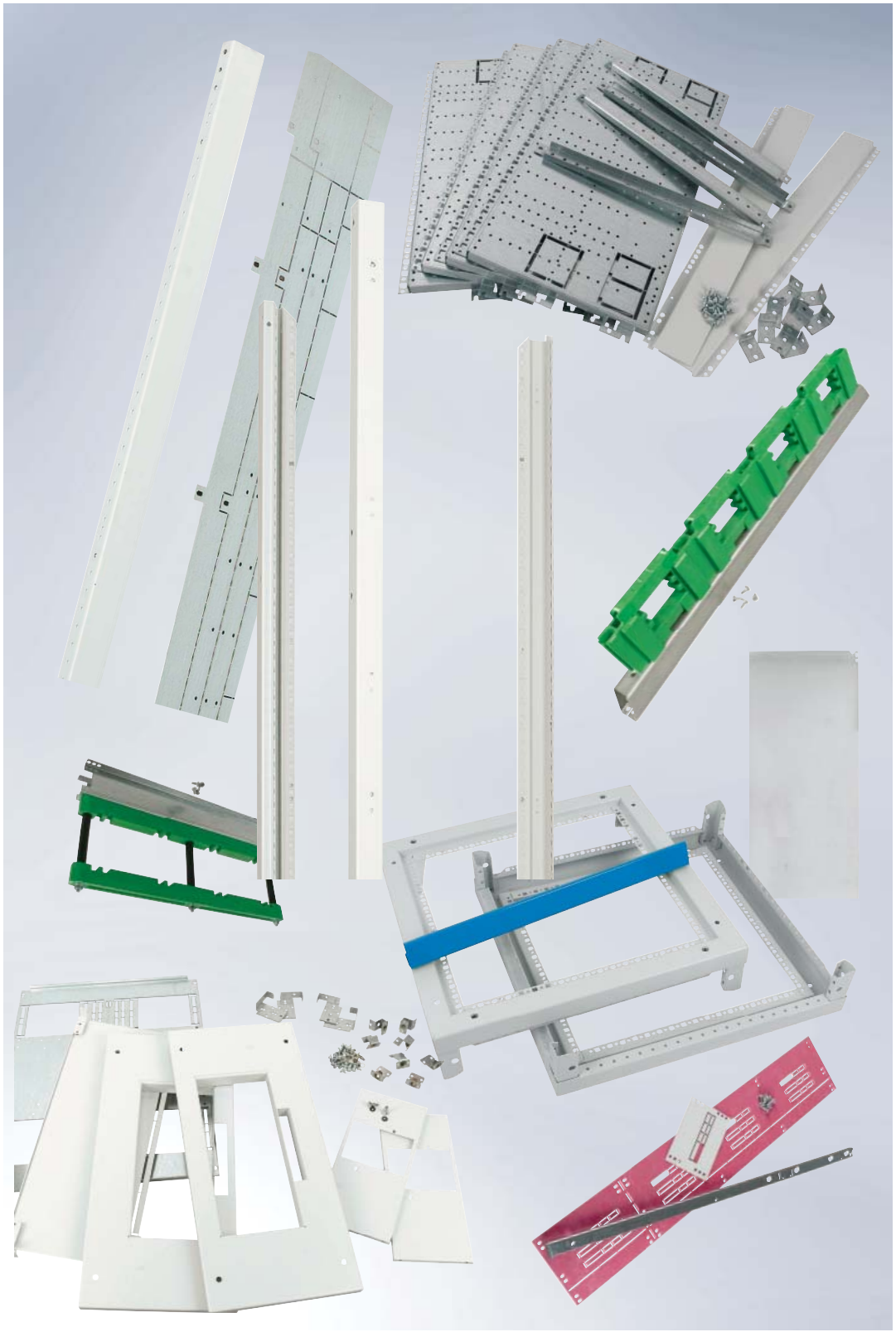
wa_vt65513



Door to switchgear area with cut-out 96/96 up to IP55	Door to switchgear area with cut-out 144/144 up to IP55	Door to switchgear area ventilated right up to IP31	Door to switchgear area ventilated left up to IP31
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDMC0606-1-96	**XSDMC0606-1-144**	**XSDMRV0606**	**XSDMLV0606**
112318	112328	284215	284206
122608*	122613*	122261*	122252*
XSDMC0608-1-96	**XSDMC0608-1-144**	**XSDMRV0608**	**XSDMLV0608**
112319	112329	284216	284207
122609*	122614*	122262*	122253*
XSDMC0610-1-96	**XSDMC0610-1-144**	**XSDMRV0610**	**XSDMLV0610**
112320	112330	132997	285507
122610*	122615*	133045*	122375*
XSDMC0606-1-96	**XSDMC0606-1-144**	**XSDMRV0606**	**XSDMLV0606**
112318	112328	284215	284206
122608*	122613*	122261*	122252*
XSDMC0608-1-96	**XSDMC0608-1-144**	**XSDMRV0608**	**XSDMLV0608**
112319	112329	284216	284207
122609*	122614*	122262*	122253*
XSDMC0610-1-96	**XSDMC0610-1-144**	**XSDMRV0610**	**XSDMLV0610**
112320	112330	132997	285507
122610*	122615*	133045*	122375*
XSDMC0606-1-96	**XSDMC0606-1-144**	**XSDMRV0606**	**XSDMLV0606**
112318	112328	284215	284206
122608*	122613*	122261*	122252*
XSDMC0608-1-96	**XSDMC0608-1-144**	**XSDMRV0608**	**XSDMLV0608**
112319	112329	284216	284207
122609*	122614*	122262*	122253*
XSDMC0610-1-96	**XSDMC0610-1-144**	**XSDMRV0610**	**XSDMLV0610**
112320	112330	132997	285507
122610*	122615*	133045*	122375*
XSDMC0606-1-96	**XSDMC0606-1-144**	**XSDMRV0606**	**XSDMLV0606**
112318	112328	284215	284206
122608*	122613*	122261*	122252*
XSDMC0608-1-96	**XSDMC0608-1-144**	**XSDMRV0608**	**XSDMLV0608**
112319	112329	284216	284207
122609*	122614*	122262*	122253*
XSDMC0610-1-96	**XSDMC0610-1-144**	**XSDMRV0610**	**XSDMLV0610**
112320	112330	132997	285507
122610*	122615*	133045*	122375*

Note * Finish in special RAL colour

Components IZMX40



Fitting kits for IZMX40

VT21709



Section width mm	IZMX40 in Section depth 600/800 mm fixed in OPPO/EVEN Article No. per unit	IZMX40 in Section depth 600/800 mm withdrawable in OPPO Article No. per unit	IZMX40 in Section depth 600 mm withdrawable in EVEN Article No. per unit
600	**XMIX40F06** 166751 166764*	**XMIX40W06** 166754 166767*	**XMIX40W06-50** 166757 166770*
800	**XMIX40F08** 166752 166765*	**XMIX40W08** 166755 166768*	**XMIX40W08-50** 166758 166771*
1000	**XMIX40F10**** 166753 166766*	**XMI40W10**** 166756 166769*	

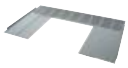
Note

* Finish in special RAL colour
** 1000 mm section width is only possible with a section depth of 800 mm

Accessories for XP Sections (IZMX40), Internal Separation

Partitions

wa_vt71313 VT05611 VT05711 wa_vt70513



Section width mm	Partition busbar area/connection area (for IZMX40) Section depth 600 mm Form 2/4	Partition busbar area/connection area (for IZMX40) Section depth 800 mm Form 2/4	Partition busbar area/switchgear area (for IZMX40) fixed Form 2/4	Partition busbar area/switchgear area (for IZMX40) withdrawable Form 2/4	Additional partition between mounting plate and main busbar to get an optimal ventilation/ cooling effect chim-ney effect) With 4000 A XP sections only	Partition connection area Plexiglass cover Form 4
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
600	**XPIX40BCB-H-0602** 166226	**XPIX40BCB-H-0604** 166223	**XPIX40FBMCB0606** 164349	**XPIX40WBMCB0606** 166220	-	**XPC0606** 284116
800	**XPIX40BCB-H-0802** 166227	**XPIX40BCB-H-0804** 166224	**XPIX40FBMCB0608** 166221	**XPIX40WBMCB0608** 166222	-	**XPC0608** 284117
1000	-	**XPIX40BCB-H-1004** 166225	**XPIX40FBMCB0610** 164347	**XPIX40WBMCB0610** 164348	**XPPBMV10** 166741	**XPC0610** 133078

Partitions (continued)

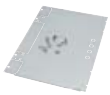
VT05511



Section width mm	Partition switchgear area/switchgear area when using EVEN/OPPO/ fixed + withdrawable with section depth 800 mm, ith OPPO with section depth 600 mm Form 4	Partition switchgear area/switchgear area when using EVEN/withdrawable with section depth of 600 mm only Form 4
	Article No. per unit	Article No. per unit
600	**XPMMB0603** 166239	**XPMMB0602** 135264
800	**XPMMB0803** 166240	**XPMMB0802** 167314
1000	**XPMMBA10** 166698	-

Separation panels / Mounting plates

wa_vt62813 wa_vt34313 VT01009


Section width mm	Swivel-mounted separation panel Switchgear area/ busbar area	Separation panel Switchgear area/ busbar area	Partition for EVEN type of connection (partition on the same side)
	Article No. per unit	Article No. per unit	Article No. per unit
600	**XPBMB0606-ROT** 112313	**XPBMB0606** 284108	**XPIX40BCB-E-06** 166742
800	**XPBMB0608-ROT** 112314	**XPBMB0608** 284109	**XPIX40BCB-E-08** 166743
1000	**XPBMB0510-ROT** 149191	**XPBMB0510** 133068	**XPIX40BCB-E-10** 166744

Accessories

Accessories

VT24209



wa_vt57313



wa_vt72713



Door sealing frame to cover the door cut-out for IZMX40 fixed	Door sealing frame to cover the door cut-out for IZMX40 withdrawable	Adapter frame for protective cover suitable for the IZMX40 series fixed + withdra-wable	Protective cover suitable for the IZMX40 series fixed + withdra-wable
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
IZMX-DEG40-F 156665	**IZMX-DEG40-W** 156666	**XMIX40-XDT** 166750	**IZM-DC** 122926

Snap-on cover

wa_vt33613



Section width mm	Snap-on cover without cut-out Article No. per unit
600	**XMC0606** 102946 122418*
800	**XMC0608** 102947 122419*
1000	**XMC0610** 102948 122420*

Additional partition for 5000 A systems

wa_vt71313



Section width mm	Partition extension for 5000 A sys-tems connection area/main busbar area Article No. per unit
600	**XPIBCB-H-06019** 150515
800	**XPIBCB-H-08019** 150516
1000	**XPIBCB-H-10019** 150518

Note * Finish in special RAL colour

wa_vt76213



Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Cut-out in the cover	Connection type	Mechanical locking [1]	Projection pover front edge mm
Circuit breaker IZM20										
IZM20	65	2000	600	600	3+4	F	Right	OPPO/EVEN	no	0
				600	3+4	W	Right	EVEN	no	115
				600	3+4	F+W	Right	OPPO	no	30
			800	600	3+4	F+W	Right	OPPO/EVEN	no	0

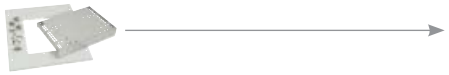
Note

[1] As it is impossible to present all configuration options for the IZM26 series with cross-locking, it may be necessary to select a suitable fitting kit from the list of „Configurations for the IZM26 series“ on page xx.

VT00109



VT21809



wa_vt57313



wa_vt72713



wa_vt34113



wa_vt71313



Fitting kit for outgoers with circuit breaker	Fitting kits for IZM	Fitting kits for IZM with modular doors	Add-on frame in combination with protective cover	Protective cover necessary for IP55	Front-Cover closed without cut-out	600 mm Partition connection/main busbar centre
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSMIB20	**XMI20/3+4/06/06/F__/E+O**	**XMI20/3+4/06/06/F__/E+O/D**	**XMI26-XDT**	**IZM -DC**	**XMC0606**	**XPIBCB-H-0602**
284257	132976	134447	151684	122926	102946	133091
	133024*	134468*	151685*		122418*	
XSMIB20	**XMI20/3+4/06/06/__W/E__**	**XMI20/3+4/06/06/__W/E__/D**	**XMI26-XDT**	**IZM -DC**	**XMC0606**	**XPIBCB-H-0602**
284257	132975	134446	151684	122926	102946	133091
	133023*	134467*	151685*		122418*	
XSMIB20	**XMI20/3+4/06/06/F+W/__O**	**XMI20/3+4/06/06/F+W/__O/D**	**XMI26-XDT**	**IZM -DC**	**XMC0606**	**XPIBCB-H-0602**
284257	132974	134445	151684	122926	102946	133091
	133022*	134466*	151685*		122418*	
XSMIB20	**XMI20/3+4/06/08/F+W/E_O**	**XMI20/3+4/06/08/F+W/E_O/D**	**XMI26-XDT**	**IZM -DC**	**XMC0606**	**XPIBCB-H-0604**
284257	132977	134448	151684	122926	102946	133092
	133025*	134469*	151685*		122418*	

Note * Finish in special RAL colour

wa_vt62413 wa_vt70113 wa_vt34313 wa_vt62813 wa_vt70513 wa_vt65313 wa_vt63013



Partition switchgear/ switchgear/ at the top Article No. per unit	Partition switchgear/connection/main busbar rear application withdrawable Article No. per unit	Partition switchgear/ connection/main busbar rear application fixed Article No. per unit	Partition mounting plate switchgear/main busbar Article No. per unit	Partition mounting plate switchgear/main busbar pivoting Article No. per unit	Cover connection area transparent Article No. per unit	Door to switchgear area closed up to IP55 Article No. per unit	Door to switchgear area with cut-out 96/96 up to IP55 Article No. per unit
XPMMB0604 284164	**-**	**XPI26FBMCB0606** 149183	**XPBMB0506** 133066	**XPBMB0506-ROT** 149189	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-96** 112318 122608*
XPMMB0604 284164	**XPI26BMCB0606** 135259	**-**	**XPBMB0506** 133066	**XPBMB0506-ROT** 149189	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-96** 112318 122608*
XPMMB0604 284164	**XPI26BMCB0606** 135259	**XPI26FBMCB0606** 149183	**XPBMB0506** 133066	**XPBMB0506-ROT** 149189	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-96** 112318 122608*
XPMMB0604 284164	**XPI26BMCB0606** 135259	**XPI26FBMCB0606** 149183	**XPBMB0506** 133066	**XPBMB0506-ROT** 149189	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-96** 112318 122608*

Note * Finish in special RAL colour

wa_vt63013



wa_vt65413



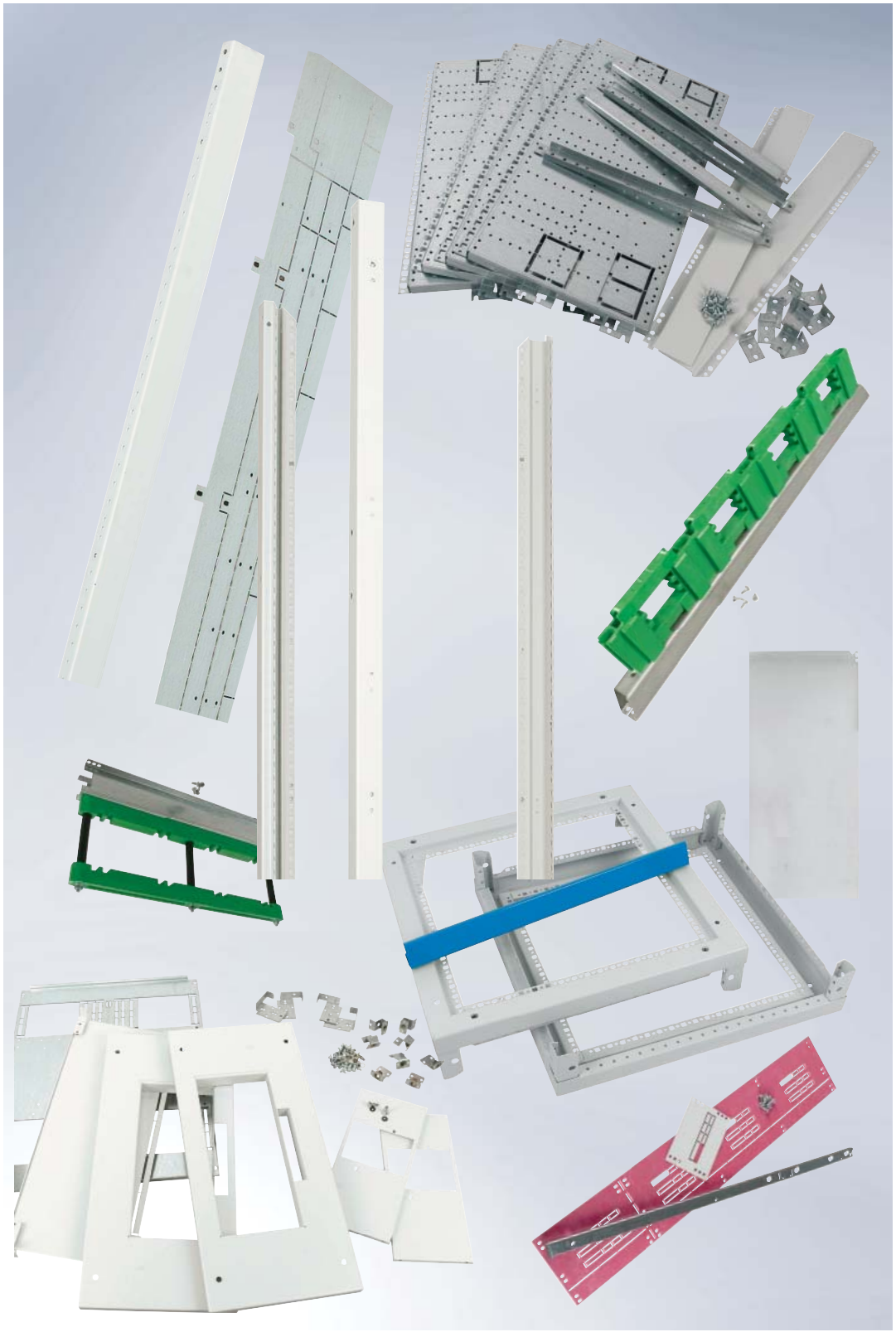
wa_vt65513



Door to switchgear area with cut-out 144/144 up to IP55	Door to switchgear area ventilated right up to IP31	Door to switchgear area ventilated left up to IP31
Article No. per unit	Article No. per unit	Article No. per unit
XSDMC0606-1-144	**XSDMRV0606**	**XSDMLV0606**
112328	284215	284206
122613*	122261*	122252*
XSDMC0606-1-144	**XSDMRV0606**	**XSDMLV0606**
112328	284215	284206
122613*	122261*	122252*
XSDMC0606-1-144	**XSDMRV0606**	**XSDMLV0606**
112328	284215	284206
122613*	122261*	122252*
XSDMC0606-1-144	**XSDMRV0606**	**XSDMLV0606**
112328	284215	284206
122613*	122261*	122252*

Note * Finish in special RAL colour

Components IZM20



Overview of fitting kits for IZM20



VT21809

Version 1: Fixed installation type
Version 2: Withdrawable
Version 3: Fixed, inclusive mechanical locking
Version 4: Withdrawable, inclusive mechanical lcoking
Version 5: Withdrawable, inclusive position indicator
O = OPPO
E = EVEN

Including base plate, front plate, fastening bracket and fastening material.

Key: **XMI20/3+4/06/08/F+W/E+O**

- Type
- Size of circuit breaker
- Number of poles
- Section width
- Section depth
- Installation type
- Connection type

Fitting kit Article No. per unit	Fitting kit with modular door Article No. per unit	Poles	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
		OPPO/EVEN	O	O	O	O	O	E	E	E	E	E	O	O	O	O	O	E	E	E	E	E
		Version	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Circuit breaker IZM20																						
XMI20/3+4/06/06/F__/E+O 132976 133024*	**XMI20/3+4/06/06/F__/E+O/D** 134447 134468*		x					x					x					x				
XMI20/3+4/06/06/F+W/__O 132974 133022*	**XMI20/3+4/06/06/F+W/__O/D** 134445 134466*		x	x				x	x				x	x				x	x			
XMI20/3+4/06/06/__W/E__ 132975 133023*	**XMI20/3+4/06/06/__W/E__/D** 134446 134467*								x										x			
XMI20/3+4/06/08/F+W/E+O 132977 133025*	**XMI20/3+4/06/08/F+W/E+O/D** 134448 134469*		x	x				x	x				x	x				x	x			
XMI32/3__/06/06/F__/E+O 132978 133026*	**XMI32/3__/06/06/F__/E+O/D** 134449 134470*		x		x			x		x												
XMI32/3__/06/06/__W/__O 132980 133028*	**XMI32/3__/06/06/__W/__O/D** 134451 134472*			x		x	x															
XMI32/3__/06/06/__W/E__ 132981 133029*	**XMI32/3__/06/06/__W/E__/D** 134452 134473*								x		x	x										
XMI32/3__/06/08/F+W/E+O 132982 133030*	**XMI32/3__/06/08/F+W/E+O/D** 134453 134474*		x	x	x	x	x	x	x	x	x	x	x	x				x	x			
XMI32/3_4/08/06/F__/E+O 132983 133031*	**XMI32/3_4/08/06/F__/E+O/D** 134454 134475*		x		x			x		x			x		x			x		x		
XMI32/3_4/08/06/__W/__O 132985 133033*	**XMI32/3_4/08/06/__W/__O/D** 134456 134477*			x		x	x							x		x	x					
XMI32/3+4/08/06/__W/E__ 132986 133034*	**XMI32/3+4/08/06/__W/E__/D** 134457 134478*								x		x	x							x		x	x
XMI32/3_4/08/08/F+W/E+O 132987 133035*	**XMI32/3_4/08/08/F+W/E+O/D** 134458 134479*		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
XMI40/3+4/10/08/__W/__O 132988 133036*	**XMI40/3+4/10/08/__W/__O** 134459 134480*		x	x	x	x	x	x		x	x	x	x	x	x	x		x				
XMI40/3+4/10/08/__W/E__ 135254 135255*	**XMI40/3+4/10/08/__W/E__/D** 135252 135253*								x		x	x							x		x	x
XMI40/3+4/11/08/F+W/__O 149187 149197*	-		x	x	x	x	x						x	x	x	x	x					
XMI40/3+4/11/08/F+W/E__ 149188 149198*	-							x	x	x	x	x						x	x	x	x	x
XMI63/3__/11/08/F+W/E+O 132989 133037*	**XMI63/3__/11/08/F+W/E+O/D** 132989 133037*																					
XMI63/3+4/135/08/F+W/E+O 132990 133038*	**XMI63/3+4/135/08/F+W/E+O/D** 134461 134482*																					
XMI63/3+4/135/08/F+W/E+O 132990 133038* in combination with XSMIB20-Z, No. 150399 and intermediate frame (XSAF200108, No. 289909)	**XMI63/3+4/135/08/F+W/E+O/D** 134461 134482*																					

Switchgear size IZM20 can be installed in all of the marked fitting kits (in their different versions). IZM20/3POL/W/EVEN can also be installed in: see marking ◯

Note * Finish in special RAL colour

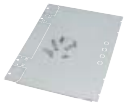
Accessories for XP Sections (IZM26/Size 20), Internal Separation

Separation panels / Mounting plates

wa_vt62813



wa_vt34313



Section width mm	Swivel-mounted separation panel Switchgear area/busbar area suitable for IZM26 Article No. per unit	Partition Switchgear area/busbar area (mounting plate) Form 2/4 suitable for IZM26 Article No. per unit
600	**XPBMB0506-ROT** 149189	**XPBMB0506** 133066
800	**XPBMB0508-ROT** 149190	**XPBMB0508** 133067

Separation panels for EVEN type of connection (on the same side)

VT01009



Section width mm	Partition between incoming supply copper and connection copper on main busbar with IZM26 Form 4 Article No. per unit
600	**XPI26BCB-E-06** 151678
800	**XPI26BCB-E-08** 151679

Partitions

wa_vt71313



wa_vt70113



wa_vt70513



wa_vt62413

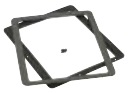


Section width mm	Partition busbar area/connection area (for IZM26) Section depth 600 mm Form 2/4 Article No. per unit	Partition busbar area/connection area (for IZM26) Section depth 800 mm Form 2/4 Article No. per unit	Partition busbar area/switchgear area (for IZM26) Form 2/4 withdrawable Article No. per unit	Partition busbar area/switchgear area (for IZM26) Form 2/4 fixed Article No. per unit	Partition connection area plexiglass cover Form 4 Article No. per unit	Partition Switchgear area/ Switchgear area Form 4 Article No. per unit
600	**XPIBCB-H-0602** 133091	**XPIBCB-H-0604** 133092	**XPI26BMCB0606** 135259	**XPI26FBMCB0606** 149183	**XPC0606** 284116	**XPMMB0604** 284164
800	**XPIBCB-H-0802** 133093	**XPIBCB-H-0804** 133094	**XPI26BMCB0608** 135260	**XPI26FBMCB0608** 149184	**XPC0608** 284117	**XPMMB0804** 284165

Accessories

Accessories

VT24209



Door sealing frame to cover the door cut-out for IZM20/32/40/63

Article No.
per unit

IZM-DEG
122925

wa_vt62513



Add-on frame for IZM26, suitable for protective cover no. 122926

Article No.
per unit

XMI26-XDT
151684
151685*

wa_vt72713



Protective cover made of plexiglass for IP55

Article No.
per unit

IZM-DC
122926

Snap-on covers

wa_vt33613



Section width mm	Snap-on cover without cut-out Article No. per unit
425	**XMC0604** 102945 122417*
600	**XMC0606** 102946 122418*
800	**XMC0608** 102947 122419*

Partition extension (5000 A)

wa_vt71313



Section width mm	Partition extension for 5000 A application busbar area/main busbar area (suitable for IZM and NZM) Article No. per unit
600	**XPIBCB-H-06019** 150515

Note * Finish in special RAL colour

wa_vt76213

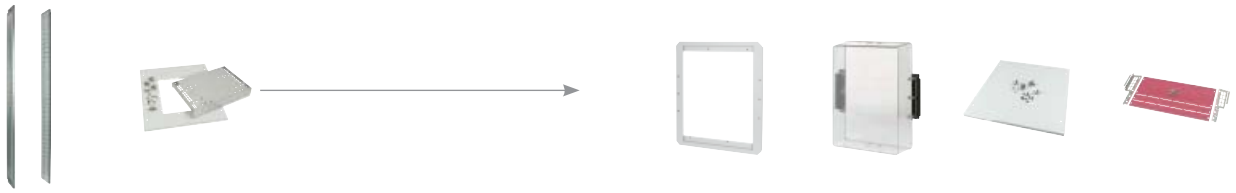


Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Cut-out in the cover	Connection type	Mechanical locking [1]	Projection pover front edge mm
Circuit breaker IZM32										
IZM32	100	3200	600	600	3	F	Center	OPPO/EVEN	no	0
						W	Center	OPPO	no	30
						W	Center	EVEN	no	115
			800	600	3	F+W	Center	OPPO/EVEN	no	0
			600	800	3+4	F	Right	OPPO/EVEN	yes	0
						W	Right	OPPO	yes	30
						W	Right	EVEN	yes	115
			800	800	3+4	F+W	Right	OPPO/EVEN	yes	0

Note

[1] As it is impossible to present all configuration options for the IZM26 series with cross-locking, it may be necessary to select a suitable fitting kit from the list of „Configurations for the IZM26 series“ on page xx.

VT00109 VT21809 wa_vt57313 wa_vt72713 wa_vt34113 wa_vt71313



Fitting kit for outgoers with circuit breaker	Fitting kits for IZM	Fitting kits for IZM with modular doors	Add-on frame in combination with protective cover	Protective cover necessary for IP55	Front-Cover closed without cut-out	600 mm Partition connection/main busbar centre
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSMIB20	**XMI32/3__/06/06/F__/E_O**	**XMI32/3__/06/06/F__/E_O/D**	**XMI26-XDT**	**IZM -DC**	**XMC0606**	**XPIBCB-H-0602**
284257	132978	134449	151684	122926	102946	133091
	133026*	134470*	151685*		122418*	
XSMIB20	**XMI32/3__/06/06/__W/__O**	**XMI32/3__/06/06/__W/__O/D**	**XMI26-XDT**	**IZM -DC**	**XMC0606**	**XPIBCB-H-0602**
284257	132980	134451	151684	122926	102946	133091
	133028*	134472*	151685*		122418*	
XSMIB20	**XMI32/3__/06/06/__W/E__**	**XMI32/3__/06/06/__W/E__/D**	**XMI26-XDT**	**IZM -DC**	**XMC0606**	**XPIBCB-H-0602**
284257	132981	134452	151684	122926	102946	133091
	133029*	134473*	151685*		122418*	
XSMIB20	**XMI32/3__/06/08/F+W/E+O**	**XMI32/3__/06/08/F+W/E+O/D**	**XMI26-XDT**	**IZM -DC**	**XMC0606**	**XPIBCB-H-0604**
284257	132982	134453	151684	122926	102946	133092
	133030*	134474*	151685*		122418*	
XSMIB20	**XMI32/3+4/08/06/F__/E+O**	**XMI32/3+4/08/06/F__/E+O/D**	**XMI26-XDT**	**IZM -DC**	**XMC0608**	**XPIBCB-H-0802**
284257	132983	134454	151684	122926	102947	133093
	133031*	134475*	151685*		122419*	
XSMIB20	**XMI32/3+4/08/06/__W/__O**	**XMI32/3+4/08/06/__W/__O/D**	**XMI26-XDT**	**IZM -DC**	**XMC0608**	**XPIBCB-H-0802**
284257	132985	134456	151684	122926	102947	133093
	133033*	134477*	151685*		122419*	
XSMIB20	**XMI32/3+4/08/06/__W/E__**	**XMI32/3+4/08/06/__W/E__/D**	**XMI26-XDT**	**IZM -DC**	**XMC0608**	**XPIBCB-H-0802**
284257	132986	134457	151684	122926	102947	133093
	133034*	134478*	151685*		122419*	
XSMIB20	**XMI32/3+4/08/08/F+W/E+O**	**XMI32/3+4/08/08/F+W/E+O/D**	**XMI26-XDT**	**IZM -DC**	**XMC0608**	**XPIBCB-H-0804**
284257	132987	134458	151684	122926	102947	133094
	133035*	134479*	151685*		122419*	

Note * Finish in special RAL colour

wa_vt62413 wa_vt70113 wa_vt34313 wa_vt62813 wa_vt70513 wa_vt65313 wa_vt63013



Partition switchgear/ switchgear/ at the top Article No. per unit	Partition switchgear/connection/main busbar rear application withdrawable Article No. per unit	Partition switchgear/ connection/main busbar rear application fixed Article No. per unit	Partition mounting plate switchgear/main busbar Article No. per unit	Partition mounting plate switchgear/main busbar pivoting Article No. per unit	Cover connection area transparent Article No. per unit	Door to switchgear area closed up to IP55 Article No. per unit	Door to switchgear area with cut-out 96/96 up to IP55 Article No. per unit
XPMMB0604 284164	**-**	**XPI26FBMCB0606** 149183	**XPBMB0506** 133066	**XPBMB0506-ROT** 149189	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-96** 112318 122608*
XPMMB0604 284164	**XPI26BMBCB0606** 135259	**-**	**XPBMB0506** 133066	**XPBMB0506-ROT** 149189	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-96** 112318 122608*
XPMMB0604 284164	**XPI26BMBCB0606** 135259	**-**	**XPBMB0506** 133066	**XPBMB0506-ROT** 149189	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-96** 112318 122608*
XPMMB0604 284164	**XPI26BMBCB0606** 135259	**XPI26FBMCB0606** 149183	**XPBMB0506** 133066	**XPBMB0506-ROT** 149189	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-96** 112318 122608*
XPMMB0804 284165	**-**	**XPI26FBMCB0608** 149184	**XPBMB0508** 133067	**XPBMB0508-ROT** 149190	**XPC0608** 284117	**XSDMC0608** 284196 122242*	**XSDMC0608-1-96** 112319 122609*
XPMMB0804 284165	**XPI26BMBCB0608** 135260	**-**	**XPBMB0508** 133067	**XPBMB0508-ROT** 149190	**XPC0608** 284117	**XSDMC0608** 284196 122242*	**XSDMC0608-1-96** 112319 122609*
XPMMB0804 284165	**XPI26BMBCB0608** 135260	**-**	**XPBMB0508** 133067	**XPBMB0508-ROT** 149190	**XPC0608** 284117	**XSDMC0608** 284196 122242*	**XSDMC0608-1-96** 112319 122609*
XPMMB0804 284165	**XPI26BMBCB0608** 135260	**XPI26FBMCB0608** 149184	**XPBMB0508** 133067	**XPBMB0508-ROT** 149190	**XPC0608** 284117	**XSDMC0608** 284196 122242*	**XSDMC0608-1-96** 112319 122609*

Note * Finish in special RAL colour

wa_vt63013



wa_vt65413



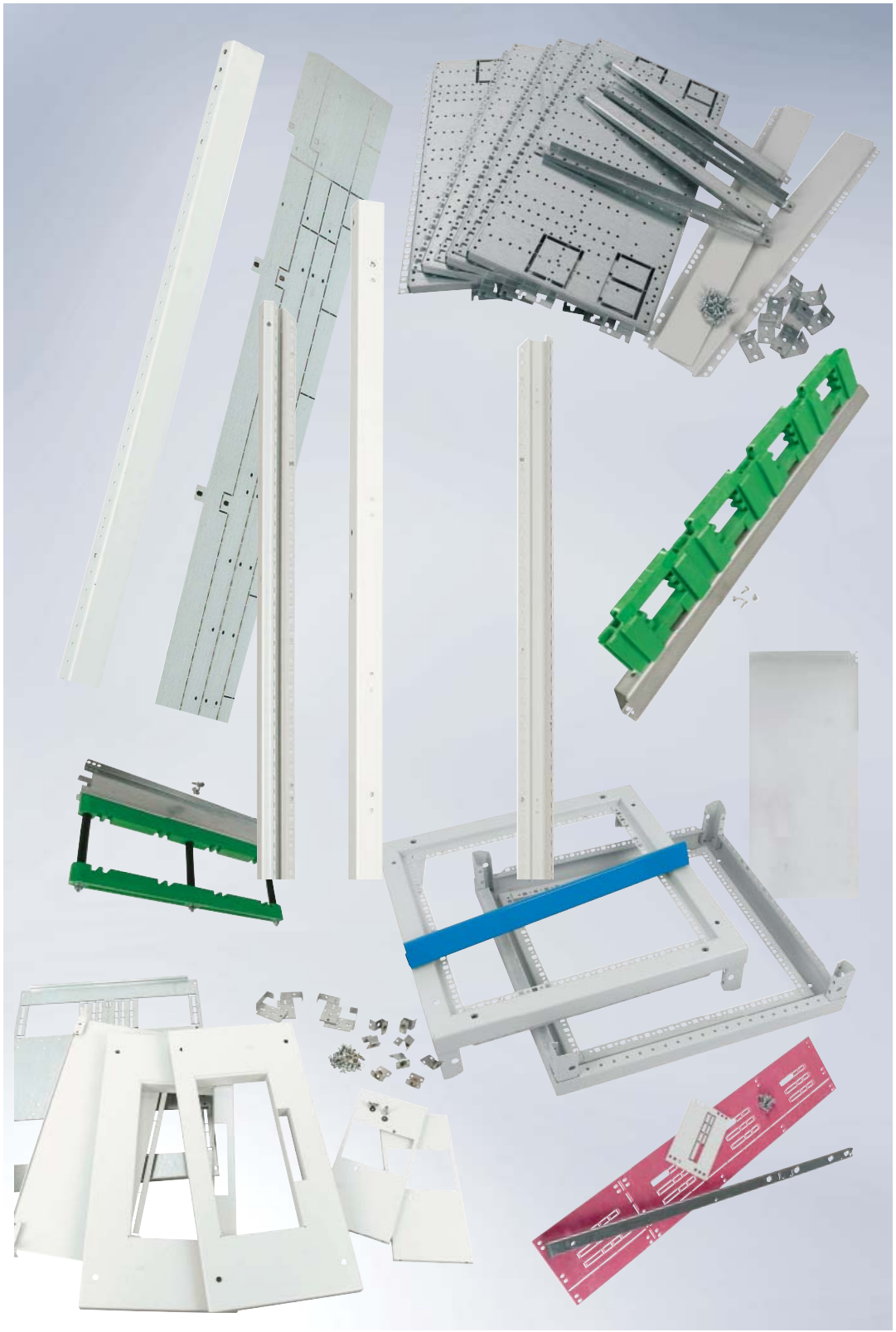
wa_vt65513



Door to switchgear area with cut-out 144/144 up to IP55	Door to switchgear area ventilated right up to IP31	Door to switchgear area ventilated left up to IP31
Article No. per unit	Article No. per unit	Article No. per unit
XSDMC0606-1-144	**XSDMRV0606**	**XSDMLV0606**
112328	284215	284206
122613*	122261*	122252*
XSDMC0606-1-144	**XSDMRV0606**	**XSDMLV0606**
112328	284215	284206
122613*	122261*	122252*
XSDMC0606-1-144	**XSDMRV0606**	**XSDMLV0606**
112328	284215	284206
122613*	122261*	122252*
XSDMC0606-1-144	**XSDMRV0606**	**XSDMLV0606**
112328	284215	284206
122613*	122261*	122252*
XSDMC0608-1-144	**XSDMRV0608**	**XSDMLV0608**
112329	284216	284207
122614*	122262*	122253*
XSDMC0608-1-144	**XSDMRV0608**	**XSDMLV0608**
112329	284216	284207
122614*	122262*	122253*
XSDMC0608-1-144	**XSDMRV0608**	**XSDMLV0608**
112329	284216	284207
122614*	122262*	122253*
XSDMC0608-1-144	**XSDMRV0608**	**XSDMLV0608**
112329	284216	284207
122614*	122262*	122253*

Note * Finish in special RAL colour

Components IZM32



Overview of fitting kits for IZM32



VT21809

Version 1: Fixed installation type
Version 2: Withdrawable
Version 3: Fixed, inclusive mechanical locking
Version 4: Withdrawable, inclusive mechanical lcoking
Version 5: Withdrawable, inclusive position indicator
O = OPPO
E = EVEN

Including base plate, front plate, fastening bracket and fastening material.

Key: **XMI32/3+4/06/08/F+W/E+O**

Type
Size of circuit breaker
Number of poles
Section width
Section depth
Installation type
Connection type

Fitting kit Article No. per unit	Fitting kit with modular door Article No. per unit	Poles	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
		OPPO/EVEN	O	O	O	O	O	E	E	E	E	E	O	O	O	O	O	E	E	E	E	E
		Version	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Circuit breaker IZM32																						
XMI32/3__/06/06/F__/E+O 132978 133026*	**XMI32/3__/06/06/F__/E+O/D** 134449 134470*		x					x														
XMI32/3__/06/06/__W/__O 132980 133028*	**XMI32/3__/06/06/__W/__O/D** 134451 134472*			x																		
XMI32/3__/06/06/__W/E__ 132981 133029*	**XMI32/3__/06/06/__W/E__/D** 134452 134473*								x													
XMI32/3__/06/08/F+W/E+O 132982 133030*	**XMI32/3__/06/08/F+W/E+O/D** 134453 134474*		x	x				x	x													
XMI32/3_4/08/06/F__/E+O 132983 133031*	**XMI32/3_4/08/06/F__/E+O/D** 134454 134475*		x		x			x		x			x		x			x		x		
XMI32/3_4/08/06/__W/__O 132985 133033*	**XMI32/3_4/08/06/__W/__O/D** 134456 134477*			x		x	x							x		x	x					
XMI32/3+4/08/06/__W/E__ 132986 133034*	**XMI32/3+4/08/06/__W/E__/D** 134457 134478*								x		x	x							x		x	x
XMI32/3_4/08/08/F+W/E+O 132987 133035*	**XMI32/3_4/08/08/F+W/E+O/D** 134458 134479*		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
XMI40/3+4/10/08/__W/__O 132988 133036*	**XMI40/3+4/10/08/__W/__O** 134459 134480*		x	x	x	x	x	x		x												
XMI40/3+4/10/08/__W/E__ 135254 135255*	**XMI40/3+4/10/08/__W/E__/D** 135252 135253*								x		x	x										
XMI40/3+4/11/08/F+W/__O 149187 149197*	-		x	x	x	x	x															
XMI40/3+4/11/08/F+W/E__ 149188 149198*	-							x	x	x	x	x										

Switchgear size IZM 32 can be installed in all of the marked fitting kits (in their different versions). IZM32/3POL/W/OPPO can also be installed in: see marking ◯

Note * Finish in special RAL colour

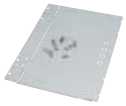
Accessories for XP Sections (IZM26/Size 32), Internal Separation

Separation panels / Mounting plates

wa_vt62813



wa_vt34313



Section width mm	Swivel-mounted separation panel Switchgear area/busbar area suitable for IZM26 Article No. per unit	Partition Switchgear area/busbar area (mounting plate) Form 2/4 suitable for IZM26 Article No. per unit
600	**XPBMB0506-ROT** 149189	**XPBMB0506** 133066
800	**XPBMB0508-ROT** 149190	**XPBMB0508** 133067

Separation panels for EVEN type of connection (on the same side)

VT01009



Section width mm	Partition between incoming supply copper and connection copper on main busbar with IZM26 Form 4 Article No. per unit
600	**XPI26BCB-E-06** 151678
800	**XPI26BCB-E-08** 151679

Partitions

wa_vt71313



wa_vt70113



wa_vt70513



wa_vt62413

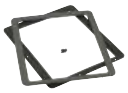


Section width mm	Partition busbar area/connection area (for IZM26) Section depth 600 mm Form 2/4 Article No. per unit	Partition busbar area/connection area (for IZM26) Section depth 800 mm Form 2/4 Article No. per unit	Partition busbar area/switchgear area (for IZM26) Form 2/4 withdrawable Article No. per unit	Partition busbar area/switchgear area (for IZM26) Form 2/4 fixed Article No. per unit	Partition connection area plexiglass cover Form 4 Article No. per unit	Partition Switchgear area/ Switchgear area Form 4 Article No. per unit
600	**XPIBCB-H-0602** 133091	**XPIBCB-H-0604** 133092	**XPI26BMCB0606** 135259	**XPI26FBMCB0606** 149183	**XPC0606** 284116	**XPMMB0604** 284164
800	**XPIBCB-H-0802** 133093	**XPIBCB-H-0804** 133094	**XPI26BMCB0608** 135260	**XPI26FBMCB0608** 149184	**XPC0608** 284117	**XPMMB0804** 284165

Accessories

Accessories

VT24209



Door sealing frame to cover the door cut-out for IZM20/32/40/63

Article No.
per unit

IZM-DEG
122925

wa_vt62513



Add-on frame for IZM26, suitable for protective cover no. 122926

Article No.
per unit

XMI26-XDT
151684
151685*

wa_vt72713



Protective cover made of plexiglass for IP55

Article No.
per unit

IZM-DC
122926

Snap-on covers

wa_vt33613



Section width mm	Snap-on cover without cut-out Article No. per unit
425	**XMC0604** 102945 122417*
600	**XMC0606** 102946 122418*
800	**XMC0608** 102947 122419*

Partition extension (5000 A)

wa_vt71313



Section width mm	Partition extension for 5000 A application busbar area/main busbar area (suitable for IZM and NZM) Article No. per unit
600	**XPIBCB-H-06019** 150515
800	**XPIBCB-H-08019** 150516

Note * Finish in special RAL colour

wa_vt76213



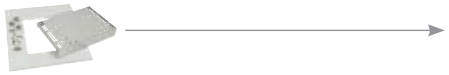
Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Cut-out in the cover	Connection type	Mechanical locking [1]	Projection pover front edge mm
Circuit breaker IZM40										
IZM40	100	4000	800	1000	3+4	W	Left	OPPO	yes 3-pole only	0
								EVEN	yes 3-pole only	50
				1100	3+4	F+W	Left	EVEN	yes	50
								OPPO	yes	0

Note [1] As it is impossible to present all configuration options for the IZM26 series with cross-locking, it may be necessary to select a suitable fitting kit from the list of „Configurations for the IZM26 series“ on page xx.

VT00109



VT21809



wa_vt57313



wa_vt72713



wa_vt34113



wa_vt71313



Fitting kit for outgoers with circuit breaker	Fitting kits for IZM	Fitting kits for IZM with modular doors	Add-on frame in combination with protective cover	Protective cover necessary for IP55	Front-Cover closed without cut-out	600 mm Partition connection/main busbar centre
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSMIB20	**XMI40/3+4/10/08/__W/__O**	**XMI40/3+4/10/08/__W/__O/D**	**XMI26-XDT**	**IZM -DC**	**XMC0610**	**XPIBCB-H-1004**
284257	132988	134459	151684	122926	102948	133095
	133036*	134480*	151685*		122420*	
XSMIB20	**XMI40/3+4/10/08/__W/E__**	**XMI40/3+4/10/08/__W/E__/D**	**XMI26-XDT**	**IZM -DC**	**XMC0610**	**XPIBCB-H-1004**
284257	135254	135252	151684	122926	102948	133095
	135253*	135255*	151685*		122420*	
XSMIB20	**XMI40/3+4/11/08/F+W/E__**	**-**	**XMI26-XDT**	**IZM -DC**	**XMC0611**	**XPIBCB-H-1104**
284257	149188		151684	122926	132993	133096
	149198*		151685*		133041*	
XSMIB20	**XMI40/3+4/11/08/F+W/__O**	**-**	**XMI26-XDT**	**IZM -DC**	**XMC0611**	**XPIBCB-H-1104**
284257	149187		151684	122926	132993	133096
	149197*		151685*		133041*	

Note * Finish in special RAL colour

wa_vt62413 wa_vt70113 wa_vt34313 wa_vt62813 wa_vt70513 wa_vt65313 wa_vt63013



Partition switchgear/ switchgear/ at the top Article No. per unit	Partition switchgear/connection/main busbar rear application withdrawable Article No. per unit	Partition switchgear/ connection/main busbar rear application fixed Article No. per unit	Partition mounting plate switchgear/main busbar Article No. per unit	Partition mounting plate switchgear/main busbar pivoting Article No. per unit	Cover connection area transparent Article No. per unit	Door to switchgear area closed up to IP55 Article No. per unit	Door to switchgear area with cut-out 96/96 up to IP55 Article No. per unit
XPMMB1004 133081	**XPI26BMCB0610** 133084	-	**XPBMB0510** 133068	**XPBMB0510-ROT** 149191	**XPC0610** 133078	**XSDMC0610** 285506 122374*	**XSDMC0610-1-96** 112320 122610*
XPMMB1004 133081	**XPI26BMCB0610** 133084	-	**XPBMB0510** 133068	**XPBMB0510-ROT** 149191	**XPC0610** 133078	**XSDMC0610** 285506 122374*	**XSDMC0610-1-96** 112320 122610*
XPMMB1104 133082	**XPI26BMCB0611** 133085	**XPI26FBMCB0611** 149186	**XPBMB0511** 133069	**XPBMB0511-ROT** 149192	**XPC0611** 133079	**XSDMC0611** 132995 133043*	**XSDMC0611-1-96** 143329 143465*
XPMMB1104 133082	**XPI26BMCB0611** 133085	**XPI26FBMCB0611** 149186	**XPBMB0511** 133069	**XPBMB0511-ROT** 149192	**XPC0611** 133079	**XSDMC0611** 132995 133043*	**XSDMC0611-1-96** 143329 143465*

Note * Finish in special RAL colour

wa_vt63013



Door to switchgear area with cut-out 144/144 up to IP55

Article No. per unit

XSDMC0610-1-144
112330
122615*
XSDMC0610-1-144
112330
122615*
XSDMC0611-1-144
143328
143464*
XSDMC0611-1-144
143328
143464*

wa_vt65413



Door to switchgear area ventilated right up to IP31

Article No. per unit

XSDMRV0610
285508
122376*
XSDMRV0610
285508
122376*
XSDMRV0611
132997
133045*
XSDMRV0611
132997
133045*

wa_vt65513



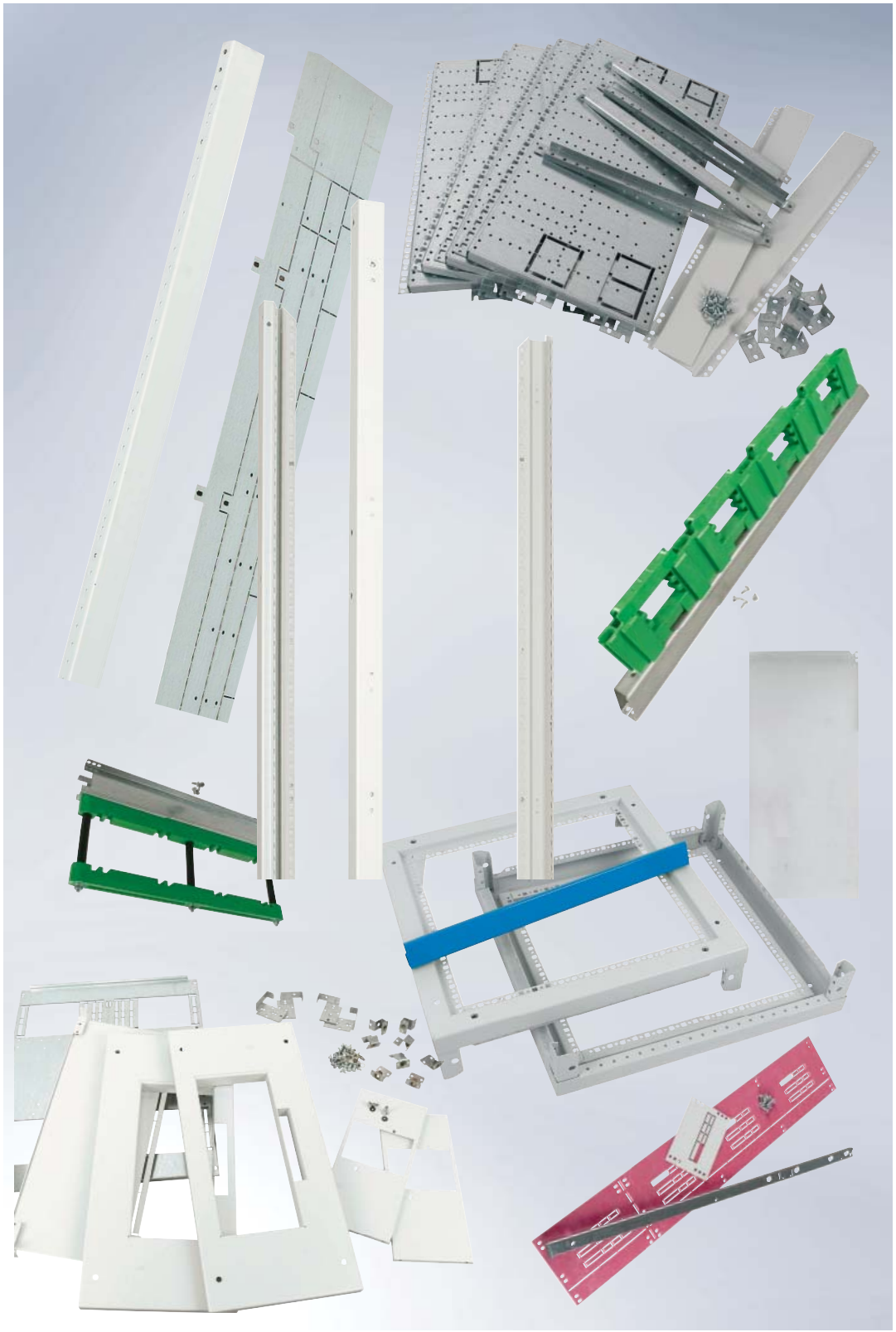
Door to switchgear area ventilated left up to IP31

Article No. per unit

XSDMLV0610
285507
122375*
XSDMLV0610
285507
122375*
XSDMLV0611
132999
133047*
XSDMLV0611
132999
133047*

Note * Finish in special RAL colour

Components IZM40



Overview of fitting kits for IZM40



VT21809

Version 1: Fixed installation type
Version 2: Withdrawable
Version 3: Fixed, inclusive mechanical locking
Version 4: Withdrawable, inclusive mechanical lcoking
Version 5: Withdrawable, inclusive position indicator
O = OPPO
E = EVEN

Including base plate, front plate, fastening bracket and fastening material.

Key: **XMI40/3+4/06/08/F+W/E+O**

- Type
- Size of circuit breaker
- Number of poles
- Section width
- Section depth
- Installation type
- Connection type

Fitting kit Article No. per unit	Fitting kit with modular door Article No. per unit	Poles	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
		OPPO/EVEN	O	O	O	O	O	E	E	E	E	E	O	O	O	O	O	E	E	E	E	E
		Version	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Circuit breaker IZM40																						
XMI40/3+4/10/08/__W/__O 132988 133036*	**XMI40/3+4/10/08/__W/__O** 134459 134480*			x		x	x	x		x			x	x				x				
XMI40/3+4/10/08/__W/E__ 135254 135255*	**XMI40/3+4/10/08/__W/E__/D** 135252 135253*								x		x	x							x			
XMI40/3+4/11/08/F+W/__O 149187 149197*	**-**		x	x	x	x	x						x	x	x	x	x					
XMI40/3+4/11/08/F+W/E__ 149188 149198*	**-**							x	x	x	x	x						x	x	x	x	x
XMI63/3__/11/08/F+W/E+O 132989 133037*	**XMI63/3__/11/08/F+W/E+O/D** 132989 133037*																					
XMI63/3+4/135/08/F+W/E+O 132990 133038*	**XMI63/3+4/135/08/F+W/E+O/D** 134461 134482*																					
XMI63/3+4/135/08/F+W/E+O 132990 133038* in combination with XSMIB20-Z, No. 150399 and intermediate frame (XSAF200108, No. 289909)	**XMI63/3+4/135/08/F+W/E+O/D** 134461 134482*																					

Switchgear size IZM40 can be installed in all of the marked fitting kits (in their different versions). IZM40/3POL/W/EVEN can also be installed in: see marking ◯

Note * Finish in special RAL colour

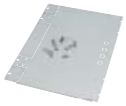
Accessories for XP Sections (IZM26/Size 40), Internal Separation

Separation panels / Mounting plates

wa_vt62813



wa_vt34313



Section width mm	Swivel-mounted separation panel Switchgear area/busbar area suitable for IZM26 Article No. per unit	Partition Switchgear area/busbar area (mounting plate) Form 2/4 suitable for IZM26 Article No. per unit
1000	**XPBMB0510-ROT** 149191	**XPBMB0510** 133068
1100	**XPBMB0511-ROT** 149192	**XPBMB0511** 133069

Separation panels for EVEN type of connection (on the same side)

VT01009



Section width mm	Partition between incoming supply copper and connection copper on main busbar with IZM26 Form 4 Article No. per unit
1000	**XPI26BCB-E-10** 151680
1100	**XPI26BCB-E-11** 151681

Partitions

wa_vt71313



wa_vt70113



wa_vt70513



wa_vt62413

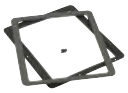


Section width mm	Partition busbar area/connection area (for IZM26) Section depth 600 mm Form 2/4 Article No. per unit	Partition busbar area/connection area (for IZM26) Section depth 800 mm Form 2/4 Article No. per unit	Partition busbar area/switchgear area (for IZM26) Form 2/4 withdrawable Article No. per unit	Partition busbar area/switchgear area (for IZM26) Form 2/4 fixed Article No. per unit	Partition connection area plexiglass cover Form 4 Article No. per unit	Partition Switchgear area/ Switchgear area Form 4 Article No. per unit
600	**XPIBCB-H-0602** 133091	**XPIBCB-H-0604** 133092	**XPI26BMCB0606** 135259	**XPI26FBMCB0606** 149183	**XPC0606** 284116	**XPMMB0604** 284164
800	**XPIBCB-H-0802** 133093	**XPIBCB-H-0804** 133094	**XPI26BMCB0608** 135260	**XPI26FBMCB0608** 149184	**XPC0608** 284117	**XPMMB0804** 284165
1000	-	**XPIBCB-H-1004** 133095	**XPI26MCB0610** 133084	**XPI26FBMCB0610** 149185	**XPC0610** 133078	**XPMMB1004** 133081
1100	-	**XPIBCB-H-1104** 133096	**XPI26MCB0611** 133085	**XPI26FBMCB0611** 149186	**XPC0611** 133079	**XPMMB1104** 133082

Accessories

Accessories

VT24209



Door sealing frame to cover the door cut-out for IZM20/32/40/63

Article No.
per unit

IZM-DEG
122925

wa_vt62513



Add-on frame for IZM26, suitable for protective cover no. 122926

Article No.
per unit

XMI26-XDT
151684
151685*

wa_vt72713



Protective cover made of plexiglass for IP55

Article No.
per unit

IZM-DC
122926

Partition extension (5000 A)

wa_vt71313



Section width mm	Partition extension for 5000 A application busbar area/main busbar area (suitable for IZM and NZM) Article No. per unit
1000	**XPIBCB-H-10019** 150518
1100	**XPIBCB-H-11019** 150519

Snap-on covers

wa_vt33613



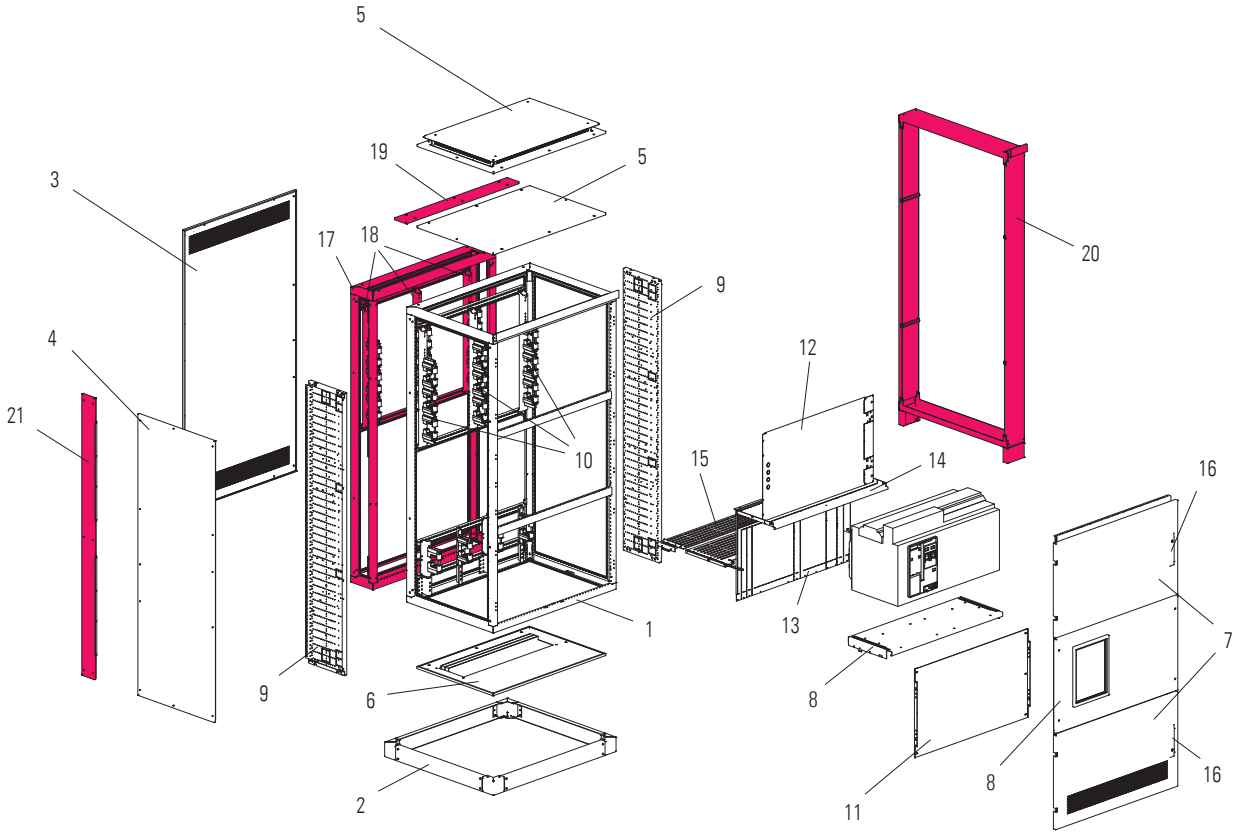
Section width mm	Snap-on cover without cut-out Article No. per unit
425	**XMC0604** 102945 122417*
600	**XMC0606** 102946 122418*
800	**XMC0608** 102947 122419*
1000	**XMC0610** 102948 122420*
1100	**XMC0611** 132993 133041*

Note * Finish in special RAL colour

Notes

Description

Kat_5000_EX_1



Abbreviations:
EVEN. . . . . Main busbars and connection area are on the same side
OPPO. . . . . Main busbars and connection area are opposite each other

1 Frame
2 Plinth
3 Rear panel
4 Side panel
5 Top panel
6 Bottom panel
7 Door
8 Fitting kit
9 Universal mounting plate
10 Main busbar support
11 PVC cover
12 Partition main busbar area/switchgear area (mounting plate)
13 Partition main busbar area/switchgear area
14 Partition switchgear area/switchgear area
15 Partition main busbar area/cable connection area
16 Lock

Additional parts for 5000 A construction
17 Frame Depth 200 mm
18 Main busbar support
19 Top panel 200 mm depth
20 Add-on frame width 150 mm
21 Side panel 200 mm depth

Features
- Section width 1100/1350 mm
- Section depth 1000 (800 + 200) mm
- fixed or withdrawable design
- suitable as a coupling section
- up to 5000 A
- Form 4
- IP31, IP55 with protective cover
- to be operated from outside
- suitable for switchgear with remote operation

Notes
Frame comes with a blue design strip.
Doors include a locking system for a 3 mm two-way key bit.
All parts are pre-drilled and include all fixing materials.
For IP55 a protective cover needs to be ordered in addition.
If you use a counter-locking system, please make sure the fitting kit is sufficient (see overview fitting kits)!
Where cover plates consisting of several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durostone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

wa_vt76213



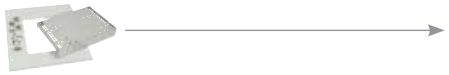
Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Cut-out in the cover	Connection type	Mechanical locking [1]	Projection pover front edge mm
Circuit breaker IZM63										
IZM63	100	4000	800	1100	3	W	Left	EVEN	no	0
				1350	3+4	W	Left	EVEN/OPPO	3-pole: yes 4-pole: no	0
									yes	0

Note [1] As it is impossible to present all configuration options for the IZM26 series with cross-locking, it may be necessary to select a suitable fitting kit from the list of „Configurations for the IZM26 series“ on page xx.

VT00109



VT21809



wa_vt57313



wa_vt72713



wa_vt34113



wa_vt71313



Fitting kit for out-goers with circuit breaker	Fitting kits for IZM	Fitting kits for IZM with modular doors	Add-on frame in combination with protective cover	Protective cover necessary for IP55	Front-Cover closed without cut-out	600 mm Partition connection/main busbar centre
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSMIB20	**XMI63/3__/11/08/F+W/E+O**	**XMI63/3__/11/08/F+W/E+O/D**	**XMI26-XDT**	**IZM -DC**	**XMC0611**	**XPIBCB-H-1104**
284257	132989	134460	151684	122926	132993	133096
	133037*	134481*	151685*		133041*	
XSMIB20	**XMI63/3+4/135/08/F+W/E+O**	**XMI63/3+4/135/08/F+W/E+O/D**	**XMI26-XDT**	**IZM -DC**	**XMC06135**	**XPIBCB-H-13504**
284257	132990	134461	151684	122926	132994	133097
	133038*	134482*	151685*		133042*	
XSMIB20-Z	**XMI63/3+4/135/08/F+W/E+O**	**XMI63/3+4/135/08/F+W/E+O/D**	**XMI26-XDT**	**IZM -DC**	**XMC06135**	**XPIBCB-H-13504**
150399	132990	134461	151684	122926	132994	133097
	133038*	134482*	151685*		133042*	

Note * Finish in special RAL colour

wa_vt62413 wa_vt70113 wa_vt34313 wa_vt62813 wa_vt70513 wa_vt65313 wa_vt63013



Partition switchgear/ switchgear/ at the top	Partition switchgear/connection/main busbar rear application withdrawable	Partition switchgear/ connection/main busbar rear application fixed	Partition mounting plate switchgear/main busbar	Partition mounting plate switchgear/main busbar pivoting	Cover connection area transparent	Door to switchgear area closed up to IP55	Door to switchgear area with cut-out 96/96 up to IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XPMMB1104 133082	**XPIBMCB0611** 133085	**XPI26FBMCB0611** 149186	**XPBMB0511** 133069	**XPBMB0511-ROT** 149192	**XPC0611** 133079	**XSDMC0611** 132995 133043*	**XSDMC0611-1-96** 143329 143465*
XPMMB13504 133083	**XPIBMCB06135** 133086	**-**	**XPBMB05135** 133070	**XPBMB05135-ROT** 149193	**XPC06135** 133080	**XSDMC06135** 132996 133044*	**XSDMC06135-1-96-S** 143285
XPMMB13504 133083	**XPIBMCB06135** 133086	**-**	**XPBMB05135** 133070	**XPBMB05135-ROT** 149193	**XPC06135** 133080	**XSDMC06135** 132996 133044*	**XSDMC06135-1-96-S** 143285

Note * Finish in special RAL colour

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wa_vt65413



wa_vt65513



Door to switchgear area with cut-out 144/144 up to IP55	Door to switchgear area ventilated right up to IP31	Door to switchgear area ventilated left up to IP31
Article No. per unit	Article No. per unit	Article No. per unit
XSDMC0611-1-144	**XSDMRV0611**	**XSDMLV0611**
143328	132997	132999
143464*	133045*	133047*
XSDMC06135-1-144	**XSDMV06135**	**XSDMV06135**
143284	132998	132998
149195*	133046*	133046*
XSDMC06135-1-144	**XSDMV06135**	**XSDMV06135**
143284	132998	132998
149195*	133046*	133046*

Note * Finish in special RAL colour

VT00211



Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Cut-out in the cover	Connection type	Mechanical locking [1]	Projection pover front edge mm
Circuit breaker IZM63										
IZM63	100	5000	800+200	1100	3	W	Left	EVEN	no	0
				1350	3+4	W	Left	EVEN/OPPO	3-pole: yes 4-pole: no	0
				1350	4	W	Left	EVEN/OPPO	4-pole: yes	0
									yes	0

Note

[1] As it is impossible to present all configuration options for the IZM26 series with cross-locking, it may be necessary to select a suitable fitting kit from the list of „Configurations for the IZM26 series“ on page xx.

VT00109



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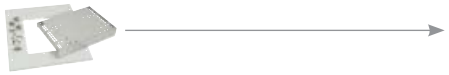

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wa_vt34113



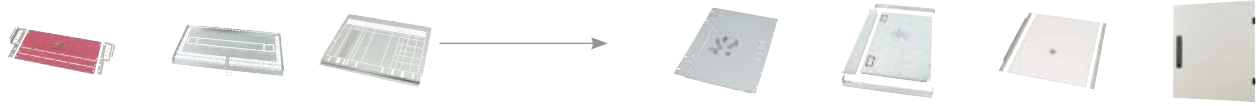
wa_vt71313



Fitting kit for outgoers with circuit breaker	Fitting kits for IZM	Fitting kits for IZM with modular doors	Add-on frame in combination with protective cover	Protective cover necessary for IP55	Front-Cover closed without cut-out	600 mm Partition connection/main busbar centre
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSMIB20	**XMI63/3__/11/08/F+W/E+O**	**XMI63/3__/11/08/F+W/E+O/D**	**XMI26-XDT**	**IZM -DC**	**XMC0611**	**XPIBCB-H-1104**
284257	132989	134460	151684	122926	132993	133096
	133037*	134481*	151685*		133041*	
XSMIB20	**XMI63/3+4/135/08/F+W/E+O**	**XMI63/3+4/135/08/F+W/E+O/D**	**XMI26-XDT**	**IZM -DC**	**XMC06135**	**XPIBCB-H-13504**
284257	132990	134461	151684	122926	132994	133097
	133038*	134482*	151685*		133042*	
XSMIB20-Z	**XMI63/3+4/135/08/F+W/E+O**	**XMI63/3+4/135/08/F+W/E+O/D**	**XMI26-XDT**	**IZM -DC**	**XMC06135**	**XPIBCB-H-13504**
150399	132990	134461	151684	122926	132994	133097
	133038*	134482*	151685*		133042*	

Note * Finish in special RAL colour

wa_vt71313 wa_vt62413 wa_vt70113 wa_vt34313 wa_vt62813 wa_vt70513 wa_vt65313



600 mm Partition connection/ main busbar centre [2]	Partition switchgear/ switchgear/ at the top	Partition switchgear/connection/main busbar rear application withdrawable	Partition switchgear/ connection/main busbar rear application fixed	Partition mounting plate switchgear/main busbar	Partition mounting plate switchgear/main busbar pivoting	Cover connection area transparent	Door to switchgear area closed up to IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XPIBCB-H-11019 150519	**XPMMB1104** 133082	**XPIBMCB0611** 133085	**XPI26FBMCB0611** 149186	**XPBMB0511** 133069	**XPBMB0511-ROT** 149192	**XPC0611** 133079	**XSDMC0611** 132995 133043*
XPIBCB-H-135019 150521	**XPMMB13504** 133083	**XPIBMCB06135** 133086	**-**	**XPBMB05135** 133070	**XPBMB05135-ROT** 149193	**XPC06135** 133080	**XSDMC06135** 132996 133044*
XPIBCB-H-135019 150521	**XPMMB13504** 133083	**XPIBMCB06135** 133086	**-**	**XPBMB05135** 133070	**XPBMB05135-ROT** 149193	**XPC06135** 133080	**XSDMC06135** 132996 133044*

Note

* Finish in special RAL colour
[2] Zusätzliche Teile für 5000 A Nennstrom

wa_vt63013



wa_vt65413



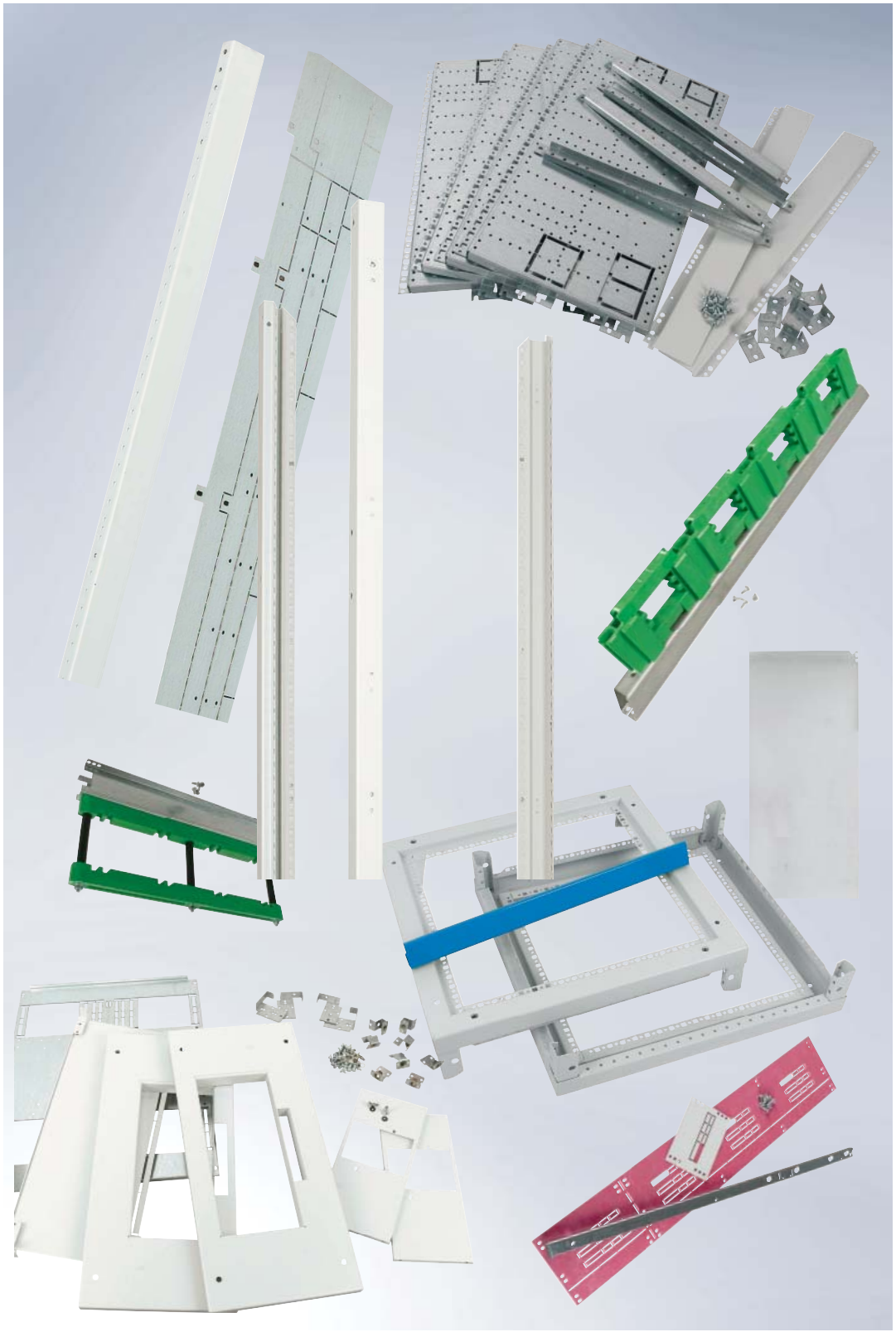
wa_vt65513



Door to switchgear area with cut-out 96/96 up to IP55	Door to switchgear area with cut-out 144/144 up to IP55	Door to switchgear area ventilated right up to IP31	Door to switchgear area ventilated left up to IP31
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDMC0611-1-96	**XSDMC0611-1-144**	**XSDMRV0611**	**XSDMLV0611**
143329	143328	132997	132999
143465*	143464*	133045*	133047*
XSDMC06135-1-96-S	**XSDMC06135-1-144**	**XSDMV06135**	**XSDMV06135**
143285	143284	132998	132998
	149195*	133046*	133046*
XSDMC06135-1-96-S	**XSDMC06135-1-144**	**XSDMV06135**	**XSDMV06135**
143285	143284	132998	132998
	149195*	133046*	133046*

Note * Finish in special RAL colour

Components IZM63



Overview of fitting kits for IZM63



VT21809

Version 1: Fixed installation type
Version 2: Withdrawable
Version 3: Fixed, inclusive mechanical locking
Version 4: Withdrawable, inclusive mechanical lcoking
Version 5: Withdrawable, inclusive position indicator
O = OPPO
E = EVEN

Including base plate, front plate, fastening bracket and fastening material.

Key: **XMI63/3+4/06/08/F+W/E+O**

- Type
- Size of circuit breaker
- Number of poles
- Section width
- Section depth
- Installation type
- Connection type

Fitting kit Article No. per unit	Fitting kit with modular door Article No. per unit	Poles	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
		OPPO/EVEN	O	O	O	O	O	E	E	E	E	E	O	O	O	O	O	E	E	E	E	E
		Version	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Circuit breaker IZM63																						
XMI63/3__/11/08/F+W/E+O 132989 133037*	**XMI63/3__/11/08/F+W/E+O/D** 132989 133037*		x	x				x	x													
XMI63/3+4/135/08/F+W/E+O 132990 133038*	**XMI63/3+4/135/08/F+W/E+O/D** 134461 134482*		x	x	x	x	x	x	x	x	x	x	x	x				x	x			
XMI63/3+4/135/08/F+W/E+O 132990 133038* in combination with XSMIB20-Z, No. 150399 and intermediate frame (XSAF200108, No. 289909)	**XMI63/3+4/135/08/F+W/E+O/D** 134461 134482*														x	x	x			x	x	x

Switchgear size IZM63 can be installed in all of the marked fitting kits (in their different versions). IZM63/3POL/W/OPPO can also be installed in: see marking ◯

Note * Finish in special RAL colour

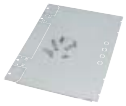
Accessories for XP Sections (IZM26/Size 63), Internal Separation

Separation panels / Mounting plates

wa_vt62813



wa_vt34313



Section width mm	Swivel-mounted separation panel Switchgear area/busbar area suitable for IZM26 Article No. per unit	Partition Switchgear area/busbar area (mounting plate) Form 2/4 suitable for IZM26 Article No. per unit
1100	**XPBMB0511-ROT** 149192	**XPBMB0511** 133069
1350	**XPBMB0535-ROT** 149193	**XPBMB0535** 133070

Separation panels for EVEN type of connection (on the same side)

VT01009



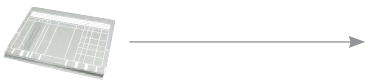
Section width mm	Partition between incoming supply copper and connection copper on main busbar with IZM26 Form 4 Article No. per unit
1100	**XPI26BCB-E-11** 151681
1350	**XPI26BCB-E-135** 151682

Partitions

wa_vt71313



wa_vt70113



wa_vt70513



wa_vt62413

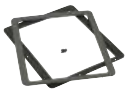


Section width mm	Partition busbar area/connection area (for IZM26) Section depth 800 mm Form 2/4 Article No. per unit	Partition busbar area/switchgear area (for IZM26) Form 2/4 withdrawable Article No. per unit	Partition busbar area/switchgear area (for IZM26) Form 2/4 fixed Article No. per unit	Partition connection area plexiglass cover Form 4 Article No. per unit	Partition Switchgear area/ Switchgear area Form 4 Article No. per unit
1100	**XPIBCB-H-1104** 133096	**XPI26MCB0611** 133085	**XPI26FBMCB0611** 149186	**XPC0611** 133079	**XPMMB1104** 133082
1350	**XPIBCB-H-13504** 133097	**XPI26MCB06135** 133086	**-**	**XPC06135** 133080	**XPMMB13504** 133083

Accessories

Accessories

VT24209



Door sealing frame to cover the door cut-out for IZM20/32/40/63

Article No.
per unit

IZM-DEG
122925

wa_vt62513



Add-on frame for IZM26, suitable for protective cover no. 122926

Article No.
per unit

XMI26-XDT
151684
151685*

wa_vt72713



Protective cover made of plexiglass for IP55

Article No.
per unit

IZM-DC
122926

Partition extension (5000 A)

wa_vt71313



Section width mm	Partition extension for 5000 A application busbar area/main busbar area (suitable for IZM and NZM) Article No. per unit
1100	**XPIBCB-H-11019** 150519
1350	**XPIBCB-H-135019** 150521

Snap-on covers

wa_vt33613



Section width mm	Snap-on cover without cut-out Article No. per unit
425	**XMC0604** 102945 122417*
600	**XMC0606** 102946 122418*
800	**XMC0608** 102947 122419*
1000	**XMC0610** 102948 122420*
1100	**XMC0611** 132993 133041*
1200	**XMC0612** 113990 122617*
1350	**XMC06135** 132994 133042*

Note * Finish in special RAL colour

wa_vt76213



Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Cut-out in the cover
Circuit breaker IZM BG-1/2/3							
In case connection is OPPO							
1	65	800 - 1600	600	425	3	F+E	Center
BG-1 can be installed in the following combinations			600	600	3+4	F+E	Right
					3+4	F+E	Center
			600	800	3+4	F+E	Right
					3+4	F-E	Center
In case connection is EVEN (with cover fixed at a higher level)							
1	65	800 - 1600	600	425	3	F+E	Center
BG-1 can be installed in the following combinations			600	600	3+4	F+E	Right
					3+4	F+E	Center
			600	800	3+4	F+E	Right

Note * Finish in special RAL colour

VT01009



VT00109



VT21809



wa_vt34113



wa_vt71313



wa_vt62413



wa_vt70113



Partition between incoming copper and connection copper on main busbar with IZM4	Universal mounting plate	Fitting kits for IZM	Front-Cover closed without cut-out up to IP55	Partition connection/ main busbar at the center	Partition switchgear/ switchgear/ at the top at the rear	Partition switchgear/connection/ main busbar
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
-	**XSMIB20** 284257	**XMI1304** 283955 122143*	**XMC0604** 102945 122417*	**XPBCB0402** 284099	**XPMMB0404** 284163	**XPIBMCB0604** 284151
-	**XSMIB20** 284257	**XMI1406** 283964 122145*	**XMC0606** 102946 122418*	**XPBCB0602** 284101	**XPMMB0604** 284164	**XPIBMCB0606** 284152
-	**XSMIB20** 284257	**XMI2306** 283973 122146*	**XMC0606** 102946 122418*	**XPBCB0602** 284101	**XPMMB0604** 284164	**XPIBMCB0606** 284152
-	**XSMIB20** 284257	**XMI2408** 283975 122148*	**XMC0608** 102947 122419*	**XPBCB0802** 284103	**XPMMB0804** 284165	**XPIBMCB0608** 284153
-	**XSMIB20** 284257	**XMI3308** 283977 122150*	**XMC0608** 102947 122419*	**XPBCB0802** 284103	**XPMMB0804** 284165	**XPIBMCB0608** 284153
XPIBCB-E-04 126001	**XSMIB20** 284257	**XMI1304-1** 285680 122379*	**XMC0604** 102945 122417*	**XPBCB0402** 284099	**XPMMB0404** 284163	**XPIBMCB0604** 284151
XPIBCB-E-06 126002	**XSMIB20** 284257	**XMI1406-1** 285681 122380*	**XMC0606** 102946 122418*	**XPBCB0602** 284101	**XPMMB0604** 284164	**XPIBMCB0606** 284152
XPIBCB-E-06 126002	**XSMIB20** 284257	**XMI2306-1** 283974 122147*	**XMC0606** 102946 122418*	**XPBCB0602** 284101	**XPMMB0604** 284164	**XPIBMCB0606** 284152
XPIBCB-E-08 126003	**XSMIB20** 284257	**XMI2408-1** 283976 122149*	**XMC0608** 102947 122419*	**XPBCB0802** 284103	**XPMMB0804** 284165	**XPIBMCB0608** 284153

Note * Finish in special RAL colour

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Partition mounting plate switchgear/main busbar	Partition mounting plate switchgear/main busbar pivoting	Cover connection area transparent	Door to switchgear area closed up to IP55	Door to switchgear area with cut-out 96/96 up to IP55	Door to switchgear area with cut-out 144/144 up to IP55	Door to switchgear area ventilated right up to IP31	Door to switchgear area ventilated left up to IP31
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XPBMB0604 284107	**XPBMB0604-ROT** 112312	**XPC0604** 284115	**XSDMC0604** 284194 122240*	**XSDMC0604-1-96** 112317 122607*	**XSDMC0604-1-144** 112327 122612*	**XSDMRV0604** 284214 122260*	**XSDMLV0604** 284205 122251*
XPBMB0606 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	**XSDMRV0606** 284215 122261*	**XSDMLV0606** 284206 122252*
XPBMB0606 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	**XSDMRV0606** 284215 122261*	**XSDMLV0606** 284206 122252*
XPBMB0608 284109	**XPBMB0608-ROT** 112314	**XPC0608** 284117	**XSDMC0608** 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	**XSDMRV0608** 284216 122262*	**XSDMLV0608** 284207 122253*
XPBMB0608 284109	**XPBMB0608-ROT** 112314	**XPC0608** 284117	**XSDMC0608** 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	**XSDMRV0608** 284216 122262*	**XSDMLV0608** 284207 122253*

XPBMB0604 284107	**XPBMB0604-ROT** 112312	**XPC0604** 284115	**XSDMC0604** 284194 122240*	**XSDMC0604-1-96** 112317 122607*	**XSDMC0604-1-144** 112327 122612*	**XSDMRV0604** 284214 122260*	**XSDMLV0604** 284205 122251*
XPBMB0606 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	**XSDMRV0606** 284215 122261*	**XSDMLV0606** 284206 122252*
XPBMB0606 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	**XSDMRV0606** 284215 122261*	**XSDMLV0606** 284206 122252*
XPBMB0608 284109	**XPBMB0608-ROT** 112314	**XPC0608** 284117	**XSDMC0608** 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	**XSDMRV0608** 284216 122262*	**XSDMLV0608** 284207 122253*

Note * Finish in special RAL colour

wa_vt76213



Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Cut-out in the cover
Circuit breaker IZM BG-1/2/3							
In case connection is OPPO							
2	100	800 - 3200	600	600	3	F+E	Center
BG-2 can be installed in the following combinations			600	800	3+4	F+E	Right
					3	F-E	Center
In case connection is EVEN (with cover fixed at a higher level)							
2	100	800 - 3200	600	600	3	F+E	Center
BG-2 can be installed in the following combinations			600	800	3+4	F+E	Right
In case connection is OPPO							
3	100	4000	600	800	3	F+E	Center
BG-3 can be installed in the following combinations			600	1200	3+4	F+E	Right

Note * Finish in special RAL colour

VT01009



VT00109



VT21809



wa_vt34113



wa_vt71313



wa_vt62413



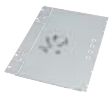
wa_vt70113



Partition between incoming copper and connection copper on main busbar with IZM4	Universal mounting plate	Fitting kits for IZM	Front-Cover closed without cut-out up to IP55	Partition connection/ main busbar at the center	Partition switchgear/ switchgear/ at the top at the rear	Partition switchgear/connection/ main busbar
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
-	**XSMIB20** 284257	**XMI2306** 283973 122146*	**XMC0606** 102946 122418*	**XPBCB0602** 284101	**XPMMB0604** 284164	**XPIBMCB0606** 284152
-	**XSMIB20** 284257	**XMI2408** 283975 122148*	**XMC0608** 102947 122419*	**XPBCB0802** 284103	**XPMMB0804** 284165	**XPIBMCB0608** 284153
-	**XSMIB20** 284257	**XMI3308** 283977 122150*	**XMC0608** 102947 122419*	**XPBCB0802** 284103	**XPMMB0804** 284165	**XPIBMCB0608** 284153
XPIBCB-E-06 126002	**XSMIB20** 284257	**XMI2306-1** 283974	**XMC0606** 102946 122147*	**XPBCB0602** 284101 122418*	**XPMMB0604** 284164	**XPIBMCB0606** 284152
XPIBCB-E-08 126003	**XSMIB20** 284257	**XMI2408-1** 283976 122149*	**XMC0608** 102947 122419*	**XPBCB0802** 284103	**XPMMB0804** 284165	**XPIBMCB0608** 284153
-	**XSMIB20** 284257	**XMI3308** 283977 122150*	**XMC0608** 102947 122419*	**XPBCB0802** 284103	**XPMMB0804** 284165	**XPIBMCB0608** 284153
-	**XSMIB20** 284257	**XMI3412** 283978 122151*	**XMC0612** 113990 122617*	**XPBCB1204** 284106	**XPMMB1204** 284166	**XPIBMCB0612** 284154

Note * Finish in special RAL colour

wa_vt34313 wa_vt62813 wa_vt70513 wa_vt65313 wa_vt63013 wa_vt65413 wa_vt65513









Partition mounting plate switchgear/main busbar	Partition mounting plate switchgear/main busbar pivoting	Cover connection area transparent	Door to switchgear area closed up to IP55	Door to switchgear area with cut-out 96/96 up to IP55	Door to switchgear area with cut-out 144/144 up to IP55	Door to switchgear area ventilated right up to IP31	Door to switchgear area ventilated left up to IP31
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XPBMB0606	**XPBMB0606-ROT**	**XPC0606**	**XSDMC0606**	**XSDMC0606-1-96**	**XSDMC0606-1-144**	**XSDMRV0606**	**XSDMLV0606**
284108	112313	284116	284195	112318	112328	284215	284206
			122241*	122608*	122613*	122261*	122252*
XPBMB0608	**XPBMB0608-ROT**	**XPC0608**	**XSDMC0608**	**XSDMC0608-1-96**	**XSDMC0608-1-144**	**XSDMRV0608**	**XSDMLV0608**
284109	112314	284117	284196	112319	112329	284216	284207
			122242*	122609*	122614*	122262*	122253*
XPBMB0608	**XPBMB0608-ROT**	**XPC0608**	**XSDMC0608**	**XSDMC0608-1-96**	**XSDMC0608-1-144**	**XSDMRV0608**	**XSDMLV0608**
284109	112314	284117	284196	112319	112329	284216	284207
			122242*	122609*	122614*	122262*	122253*
XPBMB0606	**XPBMB0606-ROT**	**XPC0606**	**XSDMC0606**	**XSDMC0606-1-96**	**XSDMC0606-1-144**	**XSDMRV0606**	**XSDMLV0606**
284108	112313	284116	284195	112318	112328	284215	284206
			122241*	122608*	122613*	122261*	122252*
XPBMB0608	**XPBMB0608-ROT**	**XPC0608**	**XSDMC0608**	**XSDMC0608-1-96**	**XSDMC0608-1-144**	**XSDMRV0608**	**XSDMLV0608**
284109	112314	284117	284196	112319	112329	284216	284207
			122242*	122609*	122614*	122262*	122253*
XPBMB0608	**XPBMB0608-ROT**	**XPC0608**	**XSDMC0608**	**XSDMC0608-1-96**	**XSDMC0608-1-144**	**XSDMRV0608**	**XSDMLV0608**
284109	112314	284117	284196	112319	112329	284216	284207
			122242*	122609*	122614*	122262*	122253*
XPBMB0612	**XPBMB0612-ROT**	**XPC0612**	**XSDMC0612**	**XSDMC0612-1-96**	**XSDMC0612-1-144**	**XSDMRV0612**	**XSDMLV06122**
284110	112316	284118	284197	112321	112331	284217	284208
			122243*	122611*	122616*	122263*	122254*

Note * Finish in special RAL colour

wa_vt76213



Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Cut-out in the cover
Circuit breaker IZM BG-1/2/3							
In case connection is OPPO/EVEN							
1	65	800 - 1600	800	425	3	F+E	Center
BG-1 can be installed in the following combinations			800	600	3+4	F+E	Right
					3+4	F+E	Center
			800	800	3+4	F+E	Right
					3+4	F-E	Center
In case connection is EVEN/OPPO (with cover fixed at a higher level)							
1	65	800 - 1600	800	425	3	F+E	Center
BG-1 can be installed in the following combinations			800	600	3+4	F+E	Right
					3+4	F+E	Center
			800	800	3+4	F+E	Right

Note * Finish in special RAL colour

VT01009



VT00109



VT21809



wa_vt34113



wa_vt71313



wa_vt62413



wa_vt70113



Partition between incoming copper and connection copper on main busbar with IZM4	Universal mounting plate	Fitting kits for IZM	Front-Cover closed without cut-out up to IP55	Partition connection/ main busbar at the center	Partition switchgear/ switchgear/ at the top at the rear	Partition switchgear/connection/ main busbar
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XPIBCB-E-04 126001	**XSMIB20** 284257	**XMI1304** 283955 122143*	**XMC0604** 102945 122417*	**XPBCB0404** 284100	**XPMMB0404** 284163	**XPIBMCB0604** 284151
XPIBCB-E-06 126002	**XSMIB20** 284257	**XMI1406** 283964 122145*	**XMC0606** 102946 122418*	**XPBCB0604** 284102	**XPMMB0604** 284164	**XPIBMCB0606** 284152
XPIBCB-E-06 126002	**XSMIB20** 284257	**XMI2306** 283973 122146*	**XMC0606** 102946 122418*	**XPBCB0604** 284102	**XPMMB0604** 284164	**XPIBMCB0606** 284152
XPIBCB-E-08 126003	**XSMIB20** 284257	**XMI2408** 283975 122148*	**XMC0608** 102947 122419*	**XPBCB0804** 284104	**XPMMB0804** 284165	**XPIBMCB0608** 284153
XPIBCB-E-08 126003	**XSMIB20** 284257	**XMI3308** 283977 122150*	**XMC0608** 102947 122419*	**XPBCB0804** 284104	**XPMMB0804** 284165	**XPIBMCB0608** 284153

XPIBCB-E-04 126001	**XSMIB20** 284257	**XMI1304** 283955 122143*	**XMC0604** 102945 122417*	**XPBCB0404** 284100	**XPMMB0404** 284163	**XPIBMCB0604** 284151
XPIBCB-E-06 126002	**XSMIB20** 284257	**XMI1406** 283964 122145*	**XMC0606** 102946 122418*	**XPBCB0604** 284102	**XPMMB0604** 284164	**XPIBMCB0606** 284152
XPIBCB-E-06 126002	**XSMIB20** 284257	**XMI2306** 283973 122146*	**XMC0606** 102946 122418*	**XPBCB0604** 284102	**XPMMB0604** 284164	**XPIBMCB0606** 284152
XPIBCB-E-08 126003	**XSMIB20** 284257	**XMI2408** 283975 122148*	**XMC0608** 102947 122419*	**XPBCB0804** 284104	**XPMMB0804** 284165	**XPIBMCB0608** 284153

Note * Finish in special RAL colour

wa_vt34313 wa_vt62813 wa_vt70513 wa_vt65313 wa_vt63013 wa_vt65413 wa_vt65513



Partition mounting plate switchgear/main busbar	Partition mounting plate switchgear/main busbar pivoting	Cover connection area transparent	Door to switchgear area closed up to IP55	Door to switchgear area with cut-out 96/96 up to IP55	Door to switchgear area with cut-out 144/144 up to IP55	Door to switchgear area ventilated right up to IP31	Door to switchgear area ventilated left up to IP31
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XPBMB0604 284107	**XPBMB0604-ROT** 112312	**XPC0604** 284115	**XSDMC0604** 284194 122240*	**XSDMC0604-1-96** 112317 122607*	**XSDMC0604-1-144** 112327 122612*	**XSDMRV0604** 284214 122260*	**XSDMLV0604** 284205 122251*
XPBMB0606 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	**XSDMRV0606** 284215 122261*	**XSDMLV0606** 284206 122252*
XPBMB0606 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	**XSDMRV0606** 284215 122261*	**XSDMLV0606** 284206 122252*
XPBMB0608 284109	**XPBMB0608-ROT** 112314	**XPC0608** 284117	**XSDMC0608** 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	**XSDMRV0608** 284216 122262*	**XSDMLV0608** 284207 122253*
XPBMB0608 284109	**XPBMB0608-ROT** 112314	**XPC0608** 284117	**XSDMC0608** 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	**XSDMRV0608** 284216 122262*	**XSDMLV0608** 284207 122253*

XPBMB0604 284107	**XPBMB0604-ROT** 112312	**XPC0604** 284115	**XSDMC0604** 284194 122240*	**XSDMC0604-1-96** 112317 122607*	**XSDMC0604-1-144** 112327 122612*	**XSDMRV0604** 284214 122260*	**XSDMLV0604** 284205 122251*
XPBMB0606 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	**XSDMRV0606** 284215 122261*	**XSDMLV0606** 284206 122252*
XPBMB0606 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	**XSDMRV0606** 284215 122261*	**XSDMLV0606** 284206 122252*
XPBMB0608 284109	**XPBMB0608-ROT** 112314	**XPC0608** 284117	**XSDMC0608** 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	**XSDMRV0608** 284216 122262*	**XSDMLV0608** 284207 122253*

Note * Finish in special RAL colour

wa_vt76213



Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Cut-out in the cover
Circuit breaker IZM BG-1/2/3							
In case connection is OPPO/EVEN							
2	100	800 - 3200	800	600	3	F+E	Center
BG-2 can be installed in the following combinations			800	800	3+4	F+E	Right
					3+4	F-E	Right
In case connection is OPPO/EVEN							
3	100	4000	800	800	3	F+E	Center
BG-3 can be installed in the following combinations			800	1200	3+4	F+E	Right

Note * Finish in special RAL colour

XP Section Incoming Supply IZM13, Rear-mounted Busbars, Section Depth 800 mm

VT01009



Partition between incoming copper and connection copper on main busbar with IZM4

Article No. per unit

VT00109



Universal mounting plate

Article No. per unit

VT21809



Fitting kits for IZM

Article No. per unit

wa_vt34113



Front-Cover closed without cut-out up to IP55

Article No. per unit

wa_vt71313



Partition connection/ main busbar at the center

Article No. per unit

wa_vt62413



Partition switchgear/ switchgear/ at the top at the rear

Article No. per unit

wa_vt70113



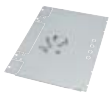
Partition switchgear/connection/ main busbar

Article No. per unit

XPIBCB-E-06 126002	**XSMIB20** 284257	**XMI2306** 283973 122146*	**XMC0606** 102946 122418*	**XPBCB0604** 284102	**XPMMB0604** 284164	**XPIBMCB0606** 284152
XPIBCB-E-08 126003	**XSMIB20** 284257	**XMI2408** 283975 122148*	**XMC0608** 102947 122419*	**XPBCB0804** 284104	**XPMMB0804** 284165	**XPIBMCB0608** 284153
XPIBCB-E-08 126003	**XSMIB20** 284257	**XMI3308** 283977 122150*	**XMC0608** 102947 122419*	**XPBCB0804** 284104	**XPMMB0804** 284165	**XPIBMCB0608** 284153
XPIBCB-E-08 126003	**XSMIB20** 284257	**XMI3308** 283977 122150*	**XMC0608** 102947 122419*	**XPBCB0804** 284104	**XPMMB0804** 284165	**XPIBMCB0608** 284153
XPIBCB-E-12 126005	**XSMIB20** 284257	**XMI3412** 283978 122151*	**XMC0612** 113990 122617*	**XPBCB1204** 284106	**XPMMB1204** 284166	**XPIBMCB0612** 284154

Note * Finish in special RAL colour

wa_vt34313 wa_vt62813 wa_vt70513 wa_vt65313 wa_vt63013 wa_vt65413 wa_vt65513





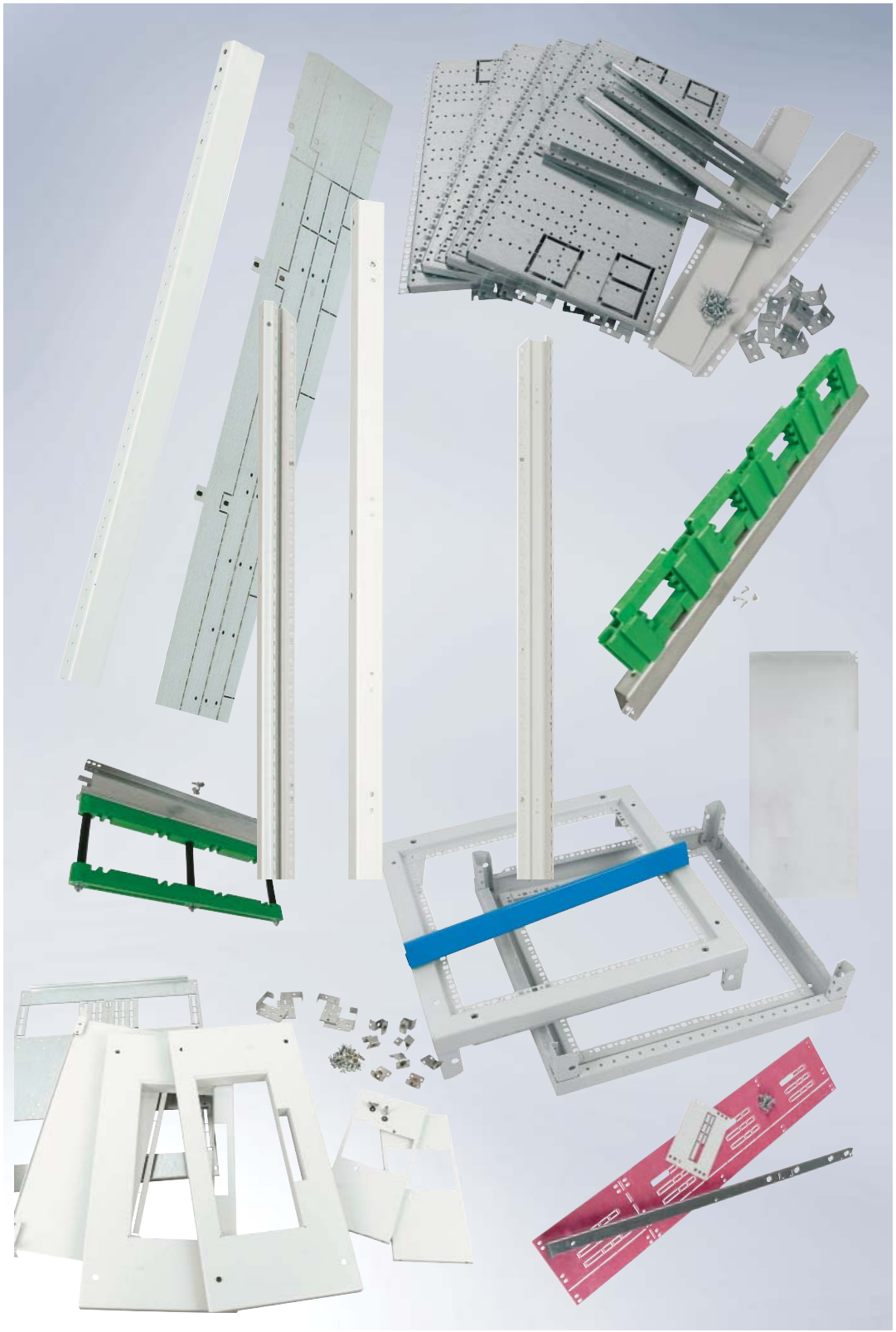




Partition mounting plate switchgear/main busbar	Partition mounting plate switchgear/main busbar pivoting	Cover connection area transparent	Door to switchgear area closed up to IP55	Door to switchgear area with cut-out 96/96 up to IP55	Door to switchgear area with cut-out 144/144 up to IP55	Door to switchgear area ventilated right up to IP31	Door to switchgear area ventilated left up to IP31
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XPBMB0606 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	**XSDMRV0606** 284215 122261*	**XSDMLV0606** 284206 122252*
XPBMB0608 284109	**XPBMB0608-ROT** 112314	**XPC0608** 284117	**XSDMC0608** 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	**XSDMRV0608** 284216 122262*	**XSDMLV0608** 284207 122253*
XPBMB0608 284109	**XPBMB0608-ROT** 112314	**XPC0608** 284117	**XSDMC0608** 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	**XSDMRV0608** 284216 122262*	**XSDMLV0608** 284207 122253*
XPBMB0608 284109	**XPBMB0608-ROT** 112314	**XPC0608** 284117	**XSDMC0608** 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	**XSDMRV0608** 284216 122262*	**XSDMLV0608** 284207 122253*
XPBMB0612 284110	**XPBMB0612-ROT** 112316	**XPC0612** 284118	**XSDMC0612** 284197 122243*	**XSDMC0612-1-96** 112321 122611*	**XSDMC0612-1-144** 112331 122616*	**XSDMRV0612** 284217 122263*	**XSDMLV0612** 284208 122254*

Note * Finish in special RAL colour

Components IZM13



Fitting kits for IZM13

Including base plate, front plate, fastening bracket and fastening material.

VT21709



VT21409



Section width mm	IZM1 fixed and withdrawable	IZM2 fixed and withdrawable	IZM3 fixed and withdrawable
	Article No. per unit	Article No. per unit	Article No. per unit
IZM13			
425	**XMI1304** 283955 122143*	-	-
600	**XMI1406** 283964 122145*	**XMI2306** 283973 122146*	-
800	-	**XMI2408** 283975 122148*	**XMI3308** 283977 122150*
1200	-	-	**XMI3412** 283978 122151*
With higher front cover for EVEN type of connection			
IZM13			
425	**XMI1304-1** 285680 122379*	-	-
600	**XMI1406-1** 285681 122380*	**XMI2306-1** 283974 122147*	-
800	-	**XMI2408-1** 283976 122419*	**XMI3308-1** 105004 122427*

Section width mm	IZM1 fixed and withdrawable	IZM2 fixed and withdrawable
	Article No. per unit	Article No. per unit
IZM13 (UK types)		
425	-	-
600	**XMI1406-UK** 118868 122648*	-
800	-	**XMI2408-UK** 110248 122590*
1200	-	-
With higher front cover for EVEN type of connection		
IZM13 (UK types)		
425	-	-
600	**XMI1406-1-UK** 118869 122649*	-
800	-	**XMI2408-1-UK** 110249 122591*

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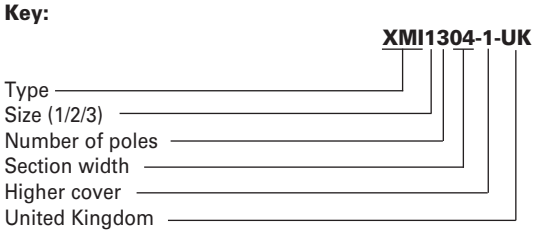


Note * Finish in special RAL colour

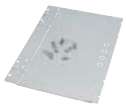
Accessories for XP Sections (IZM13), Internal Separation

Separation panels / Mounting plates

wa_vt62813



wa_vt34313



Section width mm	Swivel-mounted separation panel Switchgear area/busbar area suitable for NZM3+4 IZM13 Article No. per unit	Partition Switchgear area/busbar area (mounting plate) Form 2/4 Article No. per unit
400	**XPBMB0604-ROT** 112312	**XPBMB0511** 284107
600	**XPBMB0606-ROT** 112313	**XPBMB0535** 284108
800	**XPBMB0608-ROT** 112314	**XPBMB0511** 284109
1200	**XPBMB0612-ROT** 112316	**XPBMB0535** 284110

Separation panels for EVEN type of connection (on the same side)

VT01009



Section width mm	Partition between incoming supply copper and connection copper on main busbar with IZM13 Form 4 Article No. per unit
400	**XPIBCB-E-04** 126001
600	**XPIBCB-E-06** 126002
800	**XPIBCB-E-08** 126003
1200	**XPIBCB-E-12** 126005

Partitions

wa_vt71313



wa_vt70113



wa_vt70513



wa_vt62413



Section width mm	Partition busbar area/connection area (only IZM) Section depth 600 mm Form 2/4 Article No. per unit	Partition busbar area/connection area (only IZM) Section depth 800 mm Form 2/4 Article No. per unit	Partition busbar area/switchgear area (IZM13) Form 2/4 withdrawable and fixed Article No. per unit	Partition connection area Form 4 Article No. per unit	Partition Switchgear area/ Switchgear area Form 4 Article No. per unit
400	**XPBCB0402** 284099	**XPBCB0404** 284100	**XPIBMCB0604** 284151	**XPC0604** 284115	**XPMMB0404** 284163
600	**XPBCB0602** 284101	**XPBCB0604** 284102	**XPIBMCB0606** 284152	**XPC0606** 284116	**XPMMB0604** 284164
800	**XPBCB0802** 284103	**XPBCB0804** 284104	**XPIBMCB0608** 284153	**XPC0608** 284117	**XPMMB0804** 284165
1200	**XPBCB1202** 284105	**XPBCB1204** 284106	**XPIBMCB0612** 284154	**XPC0612** 284118	**XPMMB1204** 284166

Accessories

Accessories

VT24209



Door sealing frame to cover the door cut-out for IZM13

Article No.
per unit

IZM-XRT
230730

wa_vt57313



Add-on frame for IZM13, for mounting the IP55 protective cover

Article No.
per unit

XMI-XDT
110220
122589*

wa_vt72713



Protective cover made of plexiglass for IP55

Article No.
per unit

IZM-XDT
230750

Partition extension (5000 A)

wa_vt71313



Section width mm	Partition extension for 5000 A application busbar area/main busbar area (suitable for IZM and NZM) Article No. per unit
425	**XPIBCB-H-04019** 150514
600	**XPIBCB-H-06019** 150515
800	**XPIBCB-H-08019** 150516
1200	**XPIBCB-H-12019** 150520

Snap-on covers

wa_vt33613

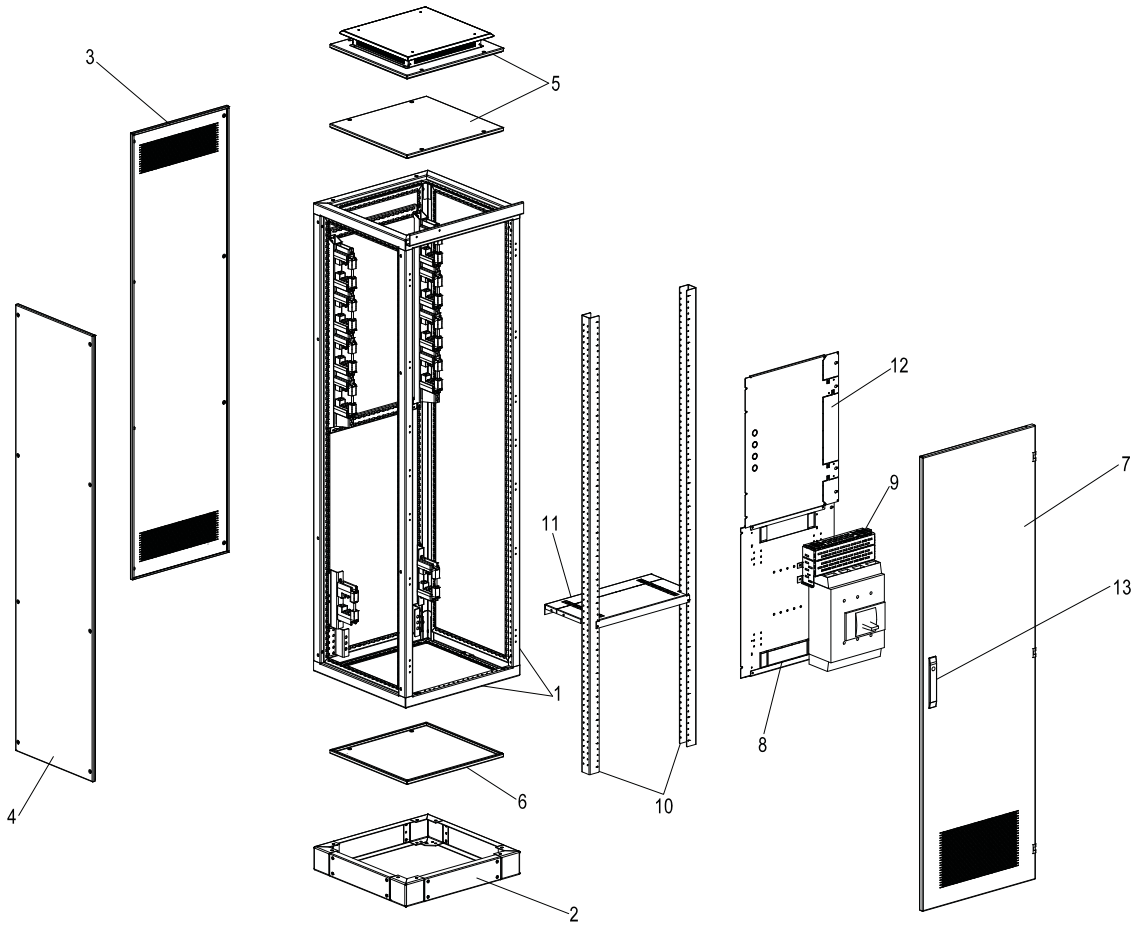


Section width mm	Snap-on cover without cut-out Article No. per unit
425	**XMC0604** 102945 122417*
600	**XMC0606** 102946 122418*
800	**XMC0608** 102947 122419*
1000	**XMC0610** 102948 122420*
1100	**XMC0611** 132993 133041*
1200	**XMC0612** 113990 122617*

Note * Finish in special RAL colour

Description

CAT0000012



Abbreviations:
EVEN. . . . . Main busbars and connection area are on the same side
OPPO. . . . . Main busbars and connection area are opposite each other

1 Frame
2 Plinth
3 Rear panel
4 Side panel
5 Top panel
6 Bottom panel
7 Door
8 Mounting plate
9 Copper contact protection
10 Section fitting kit
11 Partition main busbar area/connection area
12 Partition main busbar area/switchgear area (mounting plate)
13 Lock

Features

- Widths 425/ 600/ 800 mm
- fixed or withdrawable design
- 3 or 4 poles
- with another main busbar suitable as a coupling section
- 630-1600 A (NZM4)
- Form 2
- IP31, IP42, IP55
- suitable for drill-free cable connection, for top and bottom installation
- to be operated from behind the door as high as the section
- suitable for switchgear with remote operation

Notes

Frame comes with a blue design strip.
Doors include a locking system for a 3 mm two-way key bit.
Where cover plates consisting of several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
We recommend NZM4-XKSA as contact protection of the connection copper, see HPL.
For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durostone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

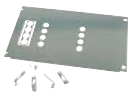
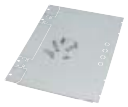
wa_vt75713



Item numbers of the exploded pictorial view	I_{cc} bis kA	I_e up to A	Poles	Installation type F = Fixed E = Withdrawable	With remote operation	With door coupling handle	Section width mm	Section depth mm
Circuit Breakers NZM4, EVEN+OPPO								
	65kA - 400V 35kA - 690V	800-1600	NZM4-3P	F	yes	yes	425	600
				E	yes	yes	425	600
				F	yes	yes	425	800
				E	yes	yes	425	800
			NZM4-3-4P	F	yes	yes	600	600
				E	yes	yes	600	600
				F	yes	yes	600	800
				E	yes	yes	600	800

xEnergy Main Switchboards

XP Section NZM4 in Form 2, Section width 425 and 600 mm

VT07506	VT00909	vt126414	wa_vt71213	wa_vt71313	wa_vt34313
					
10	8	9	11	11	12
Universal mounting strut	Mounting plate for NZM4	Contact proptection for switch input/output	Partition connection area/main busbar area	Partition extension for 5000 A systems busbar area/main busbar area (suitable for IZM and NZM)	Partition switchgear area/busbar area (mounting plate) Form 2/4
Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XSMNB20 285511	**XMN442404MVF** 284081	**XPN4MC-3P** 177118	**XPNBCT0404** 285502	**XPIBCB-H-04019** 150514	**XPBMB0604** 284107
XSMNB20 285511	**XMN442404MVF** 284081	**XPN4MC-3P** 177118	**XPNBCT0404** 285502	**XPIBCB-H-04019** 150514	**XPBMB0604** 284107
XSMNB20 285511	**XMN442404MVF** 284081	**XPN4MC-3P** 177118	**XPNBCT0406** 285523	**XPIBCB-H-04019** 150514	**XPBMB0604** 284107
XSMNB20 285511	**XMN442404MVF** 284081	**XPN4MC-3P** 177118	**XPNBCT0406** 285523	**XPIBCB-H-04019** 150514	**XPBMB0604** 284107
XSMNB20 285511	**XMN442406MVF** 284085	**XPN4MC-4P** 177119	**XPNBCT0604** 285504	**XPIBCB-H-06019** 150515	**XPBMB0606** 284108
XSMNB20 285511	**XMN442406MVF** 284085	**XPN4MC-4P** 177119	**XPNBCT0604** 285504	**XPIBCB-H-06019** 150515	**XPBMB0606** 284108
XSMNB20 285511	**XMN442406MVF** 284085	**XPN4MC-4P** 177119	**XPNBCT0606** 285522	**XPIBCB-H-06019** 150515	**XPBMB0606** 284108
XSMNB20 285511	**XMN442406MVF** 284085	**XPN4MC-4P** 177119	**XPNBCT0606** 285522	**XPIBCB-H-06019** 150515	**XPBMB0606** 284108

Note * Finish in special RAL colour

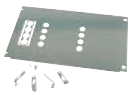
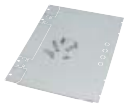
wa_vt75713



Item numbers of the exploded pictorial view	I_{cc} bis kA	I_e up to A	Poles	Installation type F = Fixed E = Withdrawable	With remote operation	With door coupling handle	Section width mm	Section depth mm
Circuit Breakers NZM4, EVEN+OPPO								
	65kA - 400V 35kA - 690V	800-1600	NZM4-3-4P	F	yes	yes	800	600
				E	yes	yes	800	600
				F	yes	yes	800	800
				E	yes	yes	800	800

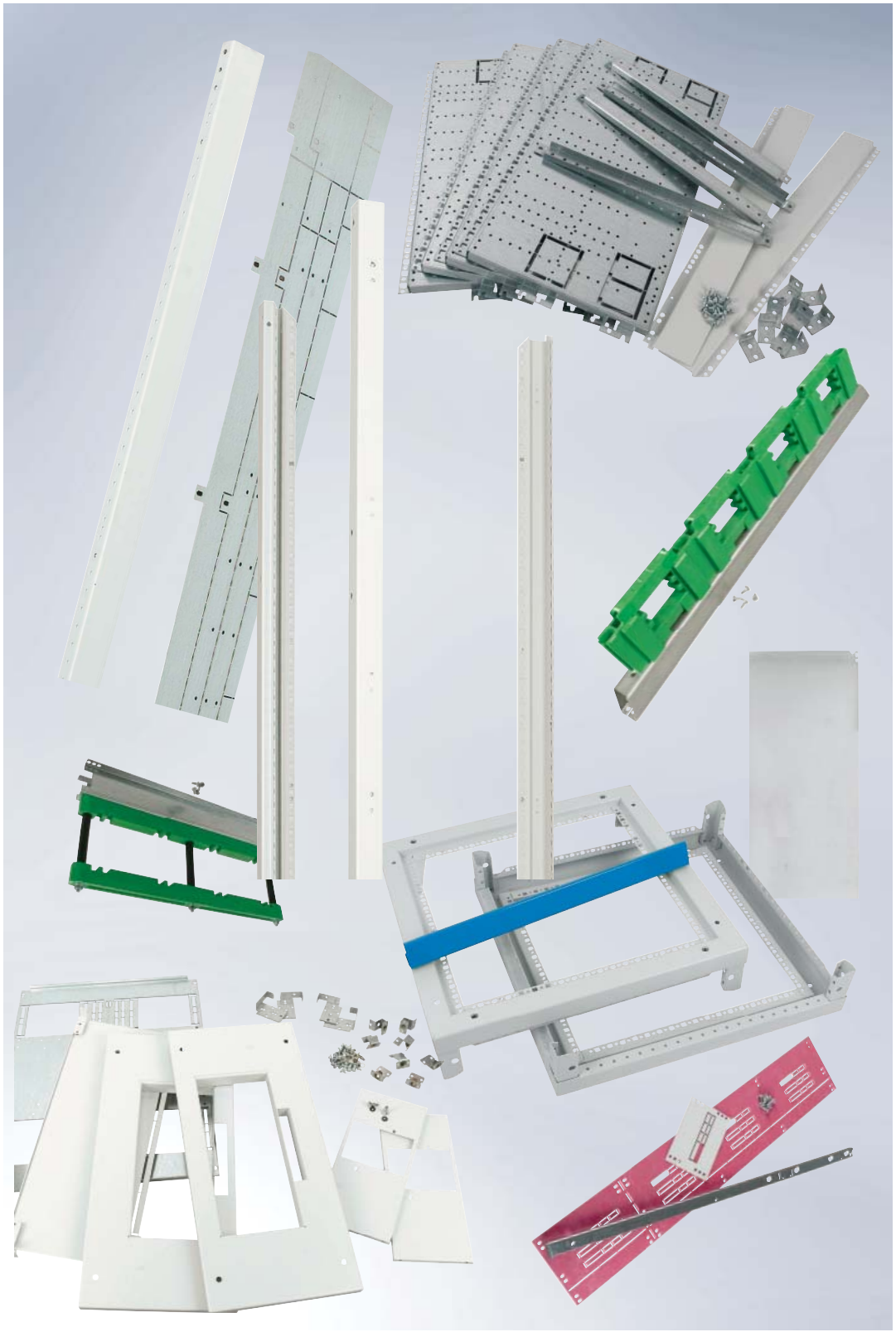
xEnergy Main Switchboards

XP Section NZM4 in Form 2, Section width 800 mm

VT07506	VT00909	vt126414	wa_vt71213	wa_vt71313	wa_vt34313
					
10	8	9	11	11	12
Universal mounting strut	Mounting plate for NZM4	Contact proptection for switch input/output	Partition connection area/main busbar area	Partition extension for 5000 A systems busbar area/main busbar area (suitable for IZM and NZM)	Partition switchgear area/busbar area (mounting plate) Form 2/4
Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XSMNB20 285511	**XMN442406MVF** 284085	**XPN4MC-4P** 177119	**XPNBCT0604** 285504	**XPIBCB-H-08019** 150516	**XPBMB0606** 284108
XSMNB20 285511	**XMN442406MVF** 284085	**XPN4MC-4P** 177119	**XPNBCT0604** 285504	**XPIBCB-H-08019** 150516	**XPBMB0606** 284108
XSMNB20 285511	**XMN442406MVF** 284085	**XPN4MC-4P** 177119	**XPNBCT0806** 135257	**XPIBCB-H-08019** 150516	**XPBMB0606** 284108
XSMNB20 285511	**XMN442406MVF** 284085	**XPN4MC-4P** 177119	**XPNBCT0806** 135257	**XPIBCB-H-08019** 150516	**XPBMB0606** 284108

Note * Finish in special RAL colour

Components NZM4 Form 2



Components for NZM4 Form 2

Universal mounting spar

VT07506



Universal mounting spar

Article No. per unit unit = 1 pair
XSMNB20 285511

Additional partition for 5000 A systems

wa_vt71313



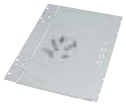
Section width mm	Partition extension for 5000 A application busbar area/main busbar area (suitable for IZM and NZM) Article No. per unit
425	**XPIBCB-H-04019** 150514
600	**XPIBCB-H-06019** 150515
800	**XPIBCB-H-08019** 150516

Mounting plates, Partitions

VT00909



wa_vt34313



wa_vt71213

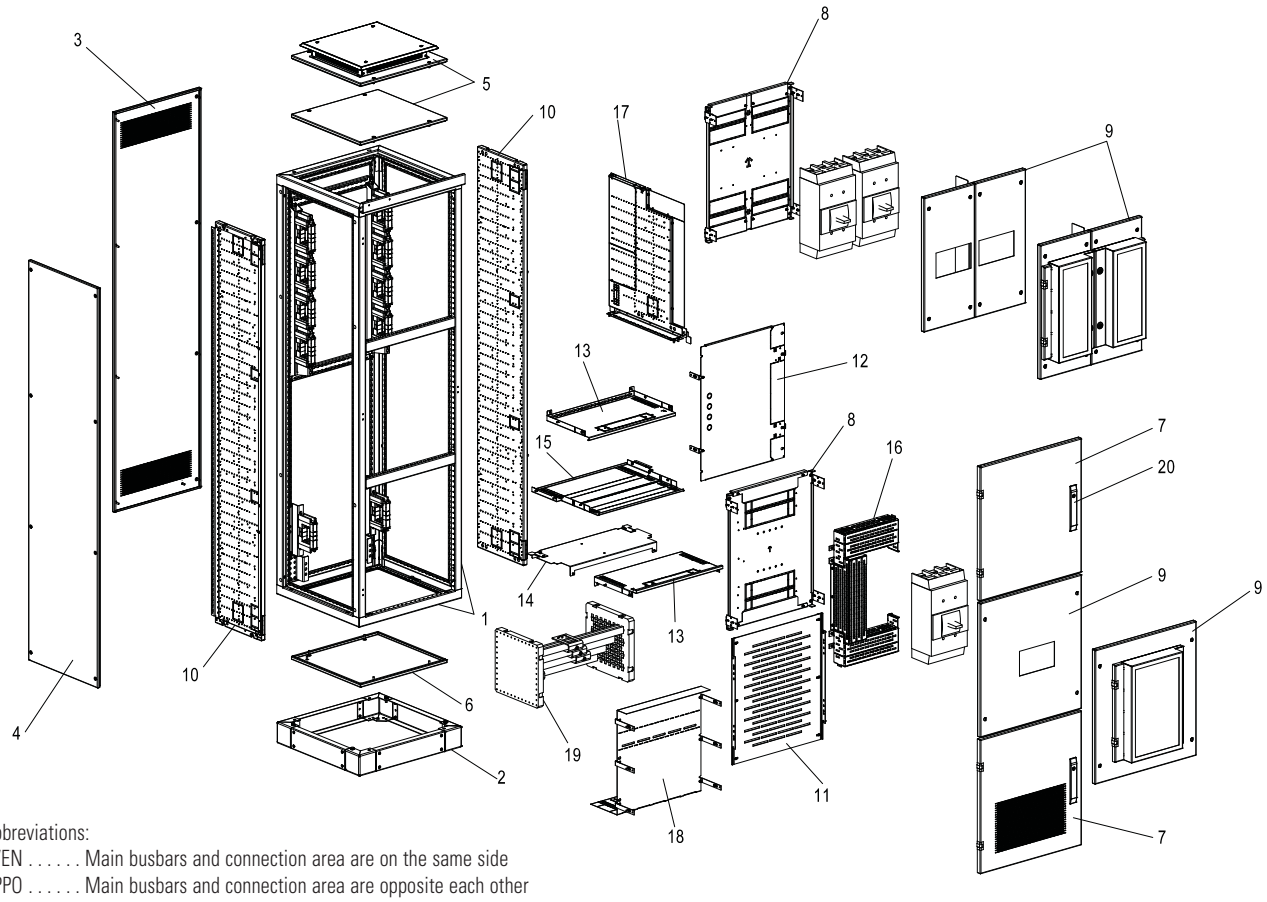


Section width mm	Mounting plate for NZM4 Form 2 fixed bzw. withdrawable Article No. per unit	Mounting plate/ partition Article No. per unit	Partition connection area/busbar area (only NZM) Section depth 400 mm Form 2 Article No. per unit	Partition connection area/busbar area (only NZM) Section depth 600 mm Form 2 Article No. per unit	Partition connection area/busbar area (only NZM) Section depth 800 mm Form 2 Article No. per unit
425	**XMN442404MVF** 284081	**XPBMB0604** 284107	**XPNBCT0402** 285501	**XPNBCT0404** 285502	**XPNBCB0406** 285523
600	**XMN442406MVF** 284085	**XPBMB0606** 284108	**XPNBCT0602** 285503	**XPNBCT0604** 285504	**XPNBCB0606** 285522
800	**XMN442408MVF** 290348	**XPBMB0608** 284109	**-**	**XPNBCT0804** 135258	**XPNBCB0806** 135257

Notes

Description

CAT0000006



Abbreviations:
EVEN . . . . . Main busbars and connection area are on the same side
OPPO . . . . . Main busbars and connection area are opposite each other
UK . . . . . 3P+N (for UK market)

1 Frame
2 Plinth
3 Rear panel
4 Side panel
5 Top panel
6 Bottom panel
7 Door (optionally 1 or 2 devices per section)
8 Mounting plate (optionally 1 or 2 devices per section)
9 Front cover (optionally 1 or 2 devices per section)
10 Universal mounting plate
11 PVC cover
12 Partition main busbar area/switchgear area (mounting plate)
13 Partition connection area/switchgear area
14 Partition main busbar area/connection area
15 Partition main busbar area/connection area EVEN
16 Copper contact protection
17 Universal mounting plate - center
18 Partition feeder/outgoing copper
19 Cable connection system
20 Lock

Features

- Widths 425/600/800/1000 mm
- fixed or withdrawable design
- 3, 4 or 3+TPN poles
- with another main busbar suitable as a coupling section
- 250-630 A (NZM3)
- 630-1600 A (NZM4)
- Form 4
- IP31, IP42, IP55
- suitable for drill-free cable connection, for top and bottom installation
- to be operated from outside
- also possible with 2 devices in one section
- suitable for switchgear with remote operation

Notes

Frame comes with a blue design strip.
Doors include a locking system for a 3 mm two-way key bit.
Where cover plates consisting of several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
We recommend NZM4-XKSA as contact protection of the connection copper, see HPL.
For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durostone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

wa_vt75913



Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Remote operation
Circuit breaker NZM3							
NZM3	100	630	600	425	3+4	F	
					3+4	F	Remote operation
					3+4	W	
					3+4	W	Remote operation
				600	3	F	
					4	F	
					3	F	Remote operation
					3	W	
					3	W	Remote operation
				800	4	W	
					4	W	Remote operation

xEnergy Main Switchboards

Incoming Supply NZM 3 Form 4, Rear-mounted Busbars (HSS)

wa_vt33413 

VT27209 

VT00109 

VT21909 

VT22009 

wa_vt56213 

VT16309 

wa_vt62413 

Busbar support	Busbar support for PEN	Universal mounting plate for PEN	Fitting kit mounting plate	Double fitting kit mounting plate	Front cover closed without cut-out up to IP55	Partition connection/ main busbar at the center	Partition connection/ switchgear at the bottom	Partition switchgear/ switchgear/ at the top
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
see Page xx	**XBSP** 283872	**XSMIB20** 284257	**XMN3304** 124411 124412*	-	**XMC0604** 102945 122417*	**XPNBCB0402** 289174	**XPNMCB04** 284174	**XPMMB0404** 284163
see Page xx	**XBSP** 283872	**XSMIB20** 284257	**XMN3304** 124411 124412*	-	**XMC0604** 102945 122417*	**XPNBCB0402** 289174	**XPNMCB04** 284174	**XPMMB0404** 284163
see Page xx	**XBSP** 283872	**XSMIB20** 284257	**XMN3304-1** 129009 129012*	-	**XMC0604** 102945 122417*	**XPNBCB0402** 289174	**XPNMCB04** 284174	**XPMMB0404** 284163
see Page xx	**XBSP** 283872	**XSMIB20** 284257	**XMN3304-2** 129010 129013*	-	**XMC0604** 102945 122417*	**XPNBCB0402** 289174	**XPNMCB04** 284174	**XPMMB0404** 284163
see Page xx	**XBSP** 283872	**XSMIB20** 284257	-	**XMN330602** 107982 122555*	**XMC060602** 107987 122560*	**XPNBCB0602** 289175	**XPNMCB06** 284175	**XPMMB0604** 284164
see Page xx	**XBSP** 283872	**XSMIB20** 284257	-	**XMN340602** 107983 122556*	**XMC060602** 107987 122560*	**XPNBCB0602** 289175	**XPNMCB064** 284175	**XPMMB0604** 284164
see Page xx	**XBSP** 283872	**XSMIB20** 284257	-	**XMN330602-R** 110277 122605*	**XMC060602** 107987 122560*	**XPNBCB0602** 289175	**XPNMCB06** 284175	**XPMMB0604** 284164
see Page xx	**XBSP** 283872	**XSMIB20** 284257	-	**XMN330602-1** 110274 122602*	**XMC060602** 107987 122560*	**XPNBCB0602** 289175	**XPNMCB06** 284175	**XPMMB0604** 284164
see Page xx	**XBSP** 283872	**XSMIB20** 284257	-	**XMN330602-2** 125995 125996*	**XMC060602** 107987 122560*	**XPNBCB0602** 289175	**XPNMCB06** 284175	**XPMMB0604** 284164
see Page xx	**XBSP** 283872	**XSMIB20** 284257	-	**XMN340802-1** 110275 122603*	**XMC060802** 107988 122561*	**XPNBCB0802** 118735	**XPNMCB08** 116455	**XPMMB0804** 284165
see Page xx	**XBSP** 283872	**XSMIB20** 284257	-	**XMN340802-2** 125997 125998*	**XMC060802** 107988 122561*	**XPNBCB0802** 118735	**XPNMCB08** 116455	**XPMMB0804** 284165

Note * Finish in special RAL colour

VT23509 wa_vt62813 wa_vt70513 wa_vt65313 wa_vt63013 wa_vt65413 wa_vt65513



Mounting plate partition switchgear/main busbar	Mounting plate partition switchgear/main busbar swivel-mounted	Cover for connection area transparent	Door to switchgear area up to IP55 closed	Door to switchgear area with cut-out 144x144 up to IP55	Door to switchgear area with cut-out 96x96 up to IP55	Door to switchgear area ventilated up to IP31 right	Door to switchgear area ventilated up to IP31 left
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XPBMB0604 284107	**XPBMB0604-ROT** 112312	**XPC0604** 284115	**XSDMC0604** 284194 122240*	**XSDMC0604-1-144** 112327 122612*	**XSDMC0604-1-96** 112317 122607*	**XSDMRV0604** 284214 122260*	**XSDMLV0604** 284205 122251*
XPBMB0604 284107	**XPBMB0604-ROT** 112312	**XPC0604** 284115	**XSDMC0604** 284194 122240*	**XSDMC0604-1-144** 112327 122612*	**XSDMC0604-1-96** 112317 122607*	**XSDMRV0604** 284214 122260*	**XSDMLV0604** 284205 122251*
XPBMB0604 284107	**XPBMB0604-ROT** 112312	**XPC0604** 284115	**XSDMC0604** 284194 122240*	**XSDMC0604-1-144** 112327 122612*	**XSDMC0604-1-96** 112317 122607*	**XSDMRV0604** 284214 122260*	**XSDMLV0604** 284205 122251*
XPBMB0604 284107	**XPBMB0604-ROT** 112312	**XPC0604** 284115	**XSDMC0604** 284194 122240*	**XSDMC0604-1-144** 112327 122612*	**XSDMC0604-1-96** 112317 122607*	**XSDMRV0604** 284214 122260*	**XSDMLV0604** 284205 122251*
XPBMB0606 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-144** 112328 122613*	**XSDMC0606-1-96** 112318 122608*	**XSDMRV0606** 284215 122261*	**XSDMLV0606** 284206 122252*
XPBMB0606 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-144** 112328 122613*	**XSDMC0606-1-96** 112318 122608*	**XSDMRV0606** 284215 122261*	**XSDMLV0606** 284206 122252*
XPBMB0606 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-144** 112328 122613*	**XSDMC0606-1-96** 112318 122608*	**XSDMRV0606** 284215 122261*	**XSDMLV0606** 284206 122252*
XPBMB0606 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-144** 112328 122613*	**XSDMC0606-1-96** 112318 122608*	**XSDMRV0606** 284215 122261*	**XSDMLV0606** 284206 122252*
XPBMB0606 284108	**XPBMB0606-ROT** 112313	**XPC0606** 284116	**XSDMC0606** 284195 122241*	**XSDMC0606-1-144** 112328 122613*	**XSDMC0606-1-96** 112318 122608*	**XSDMRV0606** 284215 122261*	**XSDMLV0606** 284206 122252*
XPBMB0608 284109	**XPBMB0608-ROT** 112314	**XPC0608** 284117	**XSDMC0608** 284196 122242*	**XSDMC0608-1-144** 112329 122614*	**XSDMC0608-1-96** 112319 122609*	**XSDMRV0608** 284216 122262*	**XSDMLV0608** 284207 122253*
XPBMB0608 284109	**XPBMB0608-ROT** 112314	**XPC0608** 284117	**XSDMC0608** 284196 122242*	**XSDMC0608-1-144** 112329 122614*	**XSDMC0608-1-96** 112319 122609*	**XSDMRV0608** 284216 122262*	**XSDMLV0608** 284207 122253*

Note * Finish in special RAL colour

wa_vt75913



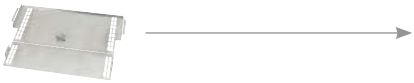
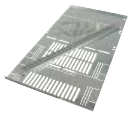
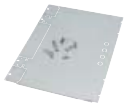
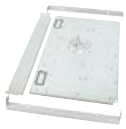
Item numbers of the exploded pictorial view	I_{cc} bis kA	I_e up to A	Poles	Installation type F = Fixed E = Withdrawable	Remote operation	fixed with mechanical lock	Fixed installation with rotary handle	Fixed installation with door coupling handle	Section width mm
Circuit Breakers NZM4, EVEN+OPPO									
	65kA - 400V 35kA - 690V	800-1600	NZM4-3P	F					425
				F	x				425
				F		x			425
				F			x		425
				F				x	425
				E					425
				E	x				425

xEnergy Main Switchboards

XP Section NZM4 in Form 4, Section width 425 mm

VT00109	vt03515		vt43215	vt44215	wa_vt34113	wa_vt56213	wa_vt62913	vt04015
								
10	9	9	9	9	9	9	9	8
Universal mounting plate	Front cover IP31	2x Front cover IP31	Front cover IP42/IP55	2x Front cover IP42/IP55	Front cover closed without cut-out IP42/IP55	2x Front cover closed without cut-out IP42/IP55	Crossbar	Mounting plate 1x NZM4 2x NZM4
Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pc.	Article No. per unit VPE = 1 Set	Article No. per unit VPE = 1 Set	Article No. per unit VPE = 1 Set	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO			EVEN+OPPO
XSMIB20 284257	**XMN43F04C** 177100 186611*	-	**XMN43F04C-55** 180497 186554*	-	**XMC0604** 102945 122417*	-	**XSFD0604** 113991 122618*	**XMN43F04M** 177122
XSMIB20 284257	**XMN43F04C** 177100 186611*	-	**XMN43F04C-55** 180497 186554*	-	**XMC0604** 102945 122417*	-	**XSFD0604** 113991 122618*	**XMN43F04M** 177122
XSMIB20 284257	**XMN43F04C-XMV** 177101 186612*	-	**XMN43F04C-55-XMV** 180495 186552*	-	**XMC0604** 102945 122417*	-	**XSFD0604** 113991 122618*	**XMN43F04M** 177122
XSMIB20 284257	**XMN43F04C** 177100 186611*	-	**XMN43F04C-55** 180497 186554*	-	**XMC0604** 102945 122417*	-	**XSFD0604** 113991 122618*	**XMN43F04M** 177122
XSMIB20 284257	-	-	-	-	**XMC0604** 102945 122417*	-	**XSFD0604** 113991 122618*	**XMN43F04M** 177122
XSMIB20 284257	**XMN4W04C** 177110 186621*	-	**XMN43W04C-55** 180509 186488*	-	**XMC0604** 102945 122417*	-	**XSFD0604** 113991 122618*	**XMN4W04M** 177093
XSMIB20 284257	**XMN43W04C-XR** 180487 186544*	-	**XMN43W04C-55-XR** 180513 186492*	-	**XMC0604** 102945 122417*	-	**XSFD0604** 113991 122618*	**XMN4W04M** 177093

Note * Finish in special RAL colour

wa_vt70913		wa_vt72013	wa_vt34313	wa_vt62813	vt37115
					
15	15	18	12	12	13
Partition busbar area/connection area (only NZM) Section depth 600 mm for the EVEN installation type of coupling section	Partition busbar area/connection area (only NZM) Section depth 800 mm for the EVEN installation type of coupling section	Partition between feeder copper and connection copper on main busbar with NZM Form 4, only for the EVEN installation type	Partition switchgear area/busbar area (mounting plate) Form 2/4	Mounting plate partition switchgear/main busbar swivel-mounted	Partition switchgear top/bottom
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
EVEN+OPPO	EVEN+OPPO	EVEN	EVEN+OPPO		EVEN+OPPO
XPNBCB0402 289174	**XPNBCB0404** 289176	**XPNBCB-E-04** 121448	**XPBMB0604** 284107	**XPBMB0604-ROT** 112312	**XPN4F-MCB04** 178597
XPNBCB0402 289174	**XPNBCB0404** 289176	**XPNBCB-E-04** 121448	**XPBMB0604** 284107	**XPBMB0604-ROT** 112312	**XPN4F-R-MCB04** 178600
XPNBCB0402 289174	**XPNBCB0404** 289176	**XPNBCB-E-04** 121448	**XPBMB0604** 284107	**XPBMB0604-ROT** 112312	**XPN4F-DV-MCB04** 178599
XPNBCB0402 289174	**XPNBCB0404** 289176	**XPNBCB-E-04** 121448	**XPBMB0604** 284107	**XPBMB0604-ROT** 112312	**XPN4F-D-MCB04** 178598
XPNBCB0402 289174	**XPNBCB0404** 289176	**XPNBCB-E-04** 121448	**XPBMB0604** 284107	**XPBMB0604-ROT** 112312	**XPN4F-R-MCB04** 178600
XPNBCB0402 289174	**XPNBCB0404** 289176	**XPNBCB-E-04** 121448	**XPBMB0604** 284107	**XPBMB0604-ROT** 112312	**XPN4W-MCB04** 178601
XPNBCB0402 289174	**XPNBCB0404** 289176	**XPNBCB-E-04** 121448	**XPBMB0604** 284107	**XPBMB0604-ROT** 112312	**XPN4W-R-MCB04** 178602

Note * Finish in special RAL colour

xEnergy Main Switchboards

XP Section NZM4 in Form 4, Section width 425 mm

vt40015	vt40115	vt35615	vt35315	VT126414	vt45515	wa_vt70513	wa_vt65513	wa_vt65413
								
14	14	17	17	16	16	11	7	7
Partition connection area D600	Partition connection area D800	Central universal mounting plate incoming area D600	Central universal mounting plate incoming area D800	Contact protection switchgear input/ output	Contact protection for 3P+N	Cover for connec-tion area, transparent	Door to switchgear area ventilated left IP31	Door to switchgear area ventilated right IP31
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO
XPNBCB-2-0406 178630	**XPNBCB-2-0408** 178632	-	-	**XPN4MC-3P** 177118	-	**XPC0604** 284115	**XSDMLV0604** 284205 122251*	**XSDMRV0604** 284214 122260*
XPNBCB-2-0406 178630	**XPNBCB-2-0408** 178632	-	-	**XPN4MC-3P** 177118	-	**XPC0604** 284115	**XSDMLV0604** 284205 122251*	**XSDMRV0604** 284214 122260*
XPNBCB-2-0406 178630	**XPNBCB-2-0408** 178632	-	-	**XPN4MC-3P** 177118	-	**XPC0604** 284115	**XSDMLV0604** 284205 122251*	**XSDMRV0604** 284214 122260*
XPNBCB-2-0406 178630	**XPNBCB-2-0408** 178632	-	-	**XPN4MC-3P** 177118	-	**XPC0604** 284115	**XSDMLV0604** 284205 122251*	**XSDMRV0604** 284214 122260*
XPNBCB-2-0406 178630	**XPNBCB-2-0408** 178632	-	-	**XPN4MC-3P** 177118	-	**XPC0604** 284115	**XSDMLV0604** 284205 122251*	**XSDMRV0604** 284214 122260*
XPNW-R-BCB-2-0406 178629	**XPNBCB-2-0408** 178632	-	-	**XPN4MC-3P** 177118	-	**XPC0604** 284115	**XSDMLV0604** 284205 122251*	**XSDMRV0604** 284214 122260*
XPNW-R-BCB-2-0406 178629	**XPNBCB-2-0408** 178632	-	-	**XPN4MC-3P** 177118	-	**XPC0604** 284115	**XSDMLV0604** 284205 122251*	**XSDMRV0604** 284214 122260*

Note * Finish in special RAL colour

wa_vt65313



wa_vt63013



VT30009



7	7	7	19
Door to switchgear area closed can be used left or right IP42/IP55	Door to switchgear area with cut-out for measuring devices 96/96 IP42/IP55	Door to switchgear area with cut-out for measuring devices 144/144 IP42/IP55	Cable connection system
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	
XSDMC0604 284194 122240*	**XSDMC0604-1-96** 112317 122607*	**XSDMC0604-1-144** 112327 122612*	see Page xx
XSDMC0604 284194 122240*	**XSDMC0604-1-96** 112317 122607*	**XSDMC0604-1-144** 112327 122612*	see Page xx
XSDMC0604 284194 122240*	**XSDMC0604-1-96** 112317 122607*	**XSDMC0604-1-144** 112327 122612*	see Page xx
XSDMC0604 284194 122240*	**XSDMC0604-1-96** 112317 122607*	**XSDMC0604-1-144** 112327 122612*	see Page xx
XSDMC0604 284194 122240*	**XSDMC0604-1-96** 112317 122607*	**XSDMC0604-1-144** 112327 122612*	see Page xx
XSDMC0604 284194 122240*	**XSDMC0604-1-96** 112317 122607*	**XSDMC0604-1-144** 112327 122612*	see Page xx
XSDMC0604 284194 122240*	**XSDMC0604-1-96** 112317 122607*	**XSDMC0604-1-144** 112327 122612*	see Page xx

Note * Finish in special RAL colour

wa_vt75913



Item numbers of the exploded pictorial view

	I_{cc} bis kA	I_e up to A	Poles	Installation type F = Fixed E = Withdrawable	Remote operation	fixed with mechanical lock	Fixed installation with rotary handle	Fixed installation with door coupling handle	Section width mm
Circuit Breakers NZM4, EVEN+OPPO									
	65kA - 400V 35kA - 690V	800-1600	NZM4-3P	F					600
			NZM4-4P, 3P+N	F					600
			NZM4-3P	F	x				600
			NZM4-4P, 3P+N	F	x				600
			NZM4-3P	F		x			600
			NZM4-4P, 3P+N	F		x			600
			NZM4-3P	F			x		600
			NZM4-4P, 3P+N	F			x		600
			NZM4-4P, 3P+N	F				x	600
			NZM4-3P	E					600
			NZM4-4P, 3P+N	E					600
			NZM4-3P	E	x				600
			NZM4-4P, 3P+N	E	x				600

xEnergy Main Switchboards

XP Section NZM4 in Form 4, Section width 600 mm

VT00109



vt03515



vt43215



vt44215



wa_vt34113



wa_vt56213



wa_vt62913



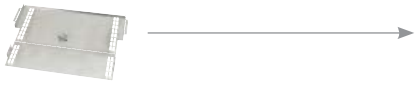
vt04015



10	9	9	9	9	9	9	9	8
Universal mounting plate	Front cover IP31	2x Front cover IP31	Front cover IP42/IP55	2x Front cover IP42/IP55	Front cover closed without cut-out IP42/IP55	2x Front cover closed without cut-out IP42/IP55	Crossbar	Mounting plate 1x NZM4 2x NZM4
Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pc.	Article No. per unit VPE = 1 Set	Article No. per unit VPE = 1 Set	Article No. per unit VPE = 1 Set	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO			EVEN+OPPO
XSMIB20 284257	**XMN43F06C** 177104 186615*	-	**XMN43F06C-55** 180501 186558*	-	**XMC0606** 102946 122418*	-	**XSFD0606** 113992 122619*	**XMN4F06M** 177124
XSMIB20 284257	**XMN44F06C** 177106 186617*	-	**XMN44F06C-55** 180502 186481*	-	**XMC0606** 102946 122418*	-	**XSFD0606** 113992 122619*	**XMN4F06M** 177124
XSMIB20 284257	**XMN43F06C** 177104 186615*	-	**XMN43F06C-55** 180501 186558*	-	**XMC0606** 102946 122418*	-	**XSFD0606** 113992 122619*	**XMN4F06M** 177124
XSMIB20 284257	**XMN44F06C** 177106 186617*	-	**XMN44F06C-55** 180502 186481*	-	**XMC0606** 102946 122418*	-	**XSFD0606** 113992 122619*	**XMN4F06M** 177124
XSMIB20 284257	**XMN43F06C-XMV** 177105 186616*	-	**XMN43F06C-55-XMV** 180499 186556*	-	**XMC0606** 102946 122418*	-	**XSFD0606** 113992 122619*	**XMN4F06M** 177124
XSMIB20 284257	**XMN44F06C-XMV** 177107 186618*	-	**XMN44F06C-55-XMV** 180500 186557*	-	**XMC0606** 102946 122418*	-	**XSFD0606** 113992 122619*	**XMN4F06M** 177124
XSMIB20 284257	**XMN43F06C** 177104 186615*	-	**XMN43F06C-55** 180501 186558*	-	**XMC0606** 102946 122418*	-	**XSFD0606** 113992 122619*	**XMN4F06M** 177124
XSMIB20 284257	**XMN44F06C** 177106 186617*	-	**XMN44F06C-55** 180502 186481*	-	**XMC0606** 102946 122418*	-	**XSFD0606** 113992 122619*	**XMN4F06M** 177124
XSMIB20 284257	-	-	-	-	**XMC0606** 102946 122418*	-	**XSFD0606** 113992 122619*	**XMN4F06M** 177124
XSMIB20 284257	**XMN43W06C** 180484 186541*	-	**XMN43W06C-55** 180510 186558*	-	**XMC0606** 102946 122418*	-	**XSFD0606** 113992 122619*	**XMN4F06M** 177124
XSMIB20 284257	**XMN44W06C** 180485 186542*	-	**XMN44W06C-55** 180511 186490*	-	**XMC0606** 102946 122418*	-	**XSFD0606** 113992 122619*	**XMN4W06M** 177094
XSMIB20 284257	**XMN43W06C-XR** 180488 186545*	-	**XMN43W06C-55-XR** 180514 186493*	-	**XMC0606** 102946 122418*	-	**XSFD0606** 113992 122619*	**XMN4W06M** 177094
XSMIB20 284257	**XMN44W06C-XR** 180489 186546*	-	**XMN44W06C-55-XR** 180515 186494*	-	**XMC0606** 102946 122418*	-	**XSFD0606** 113992 122619*	**XMN4W06M** 177094

Note * Finish in special RAL colour

wa_vt70913



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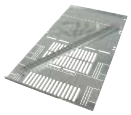

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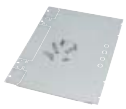

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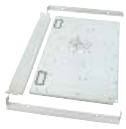


vt37115



15	15	18	12	12	13
Partition busbar area/connection area (only NZM) Section depth 600 mm for the EVEN installation type of coupling section	Partition busbar area/connection area (only NZM) Section depth 800 mm for the EVEN installation type of coupling section	Partition between feeder copper and connection copper on main busbar with NZM Form 4, only for the EVEN installation type	Partition switchgear area/busbar area (mounting plate) Form 2/4	Mounting plate partition switchgear/main busbar swivel-mounted	Partition switchgear top/bottom
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
EVEN+OPPO	EVEN+OPPO	EVEN	EVEN+OPPO		EVEN+OPPO
XPNBCB0602 289175	**XPNBCB0604** 289177	**XPNBCB-E-06** 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPN4F-MCB06** 178603
XPNBCB0602 289175	**XPNBCB0604** 289177	**XPNBCB-E-06** 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	-
XPNBCB0602 289175	**XPNBCB0604** 289177	**XPNBCB-E-06** 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPN4F-R-MCB06** 178606
XPNBCB0602 289175	**XPNBCB0604** 289177	**XPNBCB-E-06** 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	-
XPNBCB0602 289175	**XPNBCB0604** 289177	**XPNBCB-E-06** 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPN4F-DV-MCB06** 178605
XPNBCB0602 289175	**XPNBCB0604** 289177	**XPNBCB-E-06** 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	-
XPNBCB0602 289175	**XPNBCB0604** 289177	**XPNBCB-E-06** 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPN4F-D-MCB06** 178604
XPNBCB0602 289175	**XPNBCB0604** 289177	**XPNBCB-E-06** 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	-
XPNBCB0602 289175	**XPNBCB0604** 289177	**XPNBCB-E-06** 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPNBCB0602** 289175
XPNBCB0602 289175	**XPNBCB0604** 289177	**XPNBCB-E-06** 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPN4W-MCB06** 178607
XPNBCB0602 289175	**XPNBCB0604** 289177	**XPNBCB-E-06** 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPN4W-MCB06** 178607
XPNBCB0602 289175	**XPNBCB0604** 289177	**XPNBCB-E-06** 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPN4W-R-MCB06** 178645
XPNBCB0602 289175	**XPNBCB0604** 289177	**XPNBCB-E-06** 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPN4W-R-MCB06** 178645

Note * Finish in special RAL colour

xEnergy Main Switchboards

XP Section NZM4 in Form 4, Section width 600 mm

vt40015	vt40115	vt35615	vt35315	VT126414	vt45515	wa_vt70513	wa_vt65513	wa_vt65413
								
14	14	17	17	16	16	11	7	7
Partition connection area D600	Partition connection area D800	Central universal mounting plate incoming area D600	Central universal mounting plate incoming area D800	Contact protection switchgear input/ output	Contact protection for 3P+N	Cover for connec-tion area, transparent	Door to switchgear area ventilated left IP31	Door to switchgear area ventilated right IP31
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO
XPNBCB-2-0606 178634	**XPNBCB-2-0608** 178636	-	-	**XPN4MC-4P** 177119	-	**XPC0606** 284116	**XSDMLV0606** 284206 122252*	**XSDMRV0606** 284215 122261*
XPNBCB-2-0606 178634	**XPNBCB-2-0608** 178636	-	-	**XPN4MC-4P** 177119	**XPN4FMC-3P+N** 179301	**XPC0606** 284116	**XSDMLV0606** 284206 122252*	**XSDMRV0606** 284215 122261*
XPNBCB-2-0606 178634	**XPNBCB-2-0608** 178636	-	-	**XPN4MC-4P** 177119	-	**XPC0606** 284116	**XSDMLV0606** 284206 122252*	**XSDMRV0606** 284215 122261*
XPNBCB-2-0606 178634	**XPNBCB-2-0608** 178636	-	-	**XPN4MC-4P** 177119	**XPN4FMC-3P+N** 179301	**XPC0606** 284116	**XSDMLV0606** 284206 122252*	**XSDMRV0606** 284215 122261*
XPNBCB-2-0606 178634	**XPNBCB-2-0608** 178636	-	-	**XPN4MC-4P** 177119	-	**XPC0606** 284116	**XSDMLV0606** 284206 122252*	**XSDMRV0606** 284215 122261*
XPNBCB-2-0606 178634	**XPNBCB-2-0608** 178636	-	-	**XPN4MC-4P** 177119	**XPN4FMC-3P+N** 179301	**XPC0606** 284116	**XSDMLV0606** 284206 122252*	**XSDMRV0606** 284215 122261*
XPNBCB-2-0606 178634	**XPNBCB-2-0608** 178636	-	-	**XPN4MC-4P** 177119	-	**XPC0606** 284116	**XSDMLV0606** 284206 122252*	**XSDMRV0606** 284215 122261*
XPNBCB-2-0606 178634	**XPNBCB-2-0608** 178636	-	-	**XPN4MC-4P** 177119	**XPN4FMC-3P+N** 179301	**XPC0606** 284116	**XSDMLV0606** 284206 122252*	**XSDMRV0606** 284215 122261*
XPNBCB-2-0606 178634	**XPNBCB-2-0608** 178636	-	-	**XPN4MC-4P** 177119	**XPN4FMC-3P+N** 179301	**XPC0606** 284116	**XSDMLV0606** 284206 122252*	**XSDMRV0606** 284215 122261*
XPNW-R-BCB-2-0606 178633	**XPNW-R-BCB-2-0608** 178635	-	-	**XPN4MC-4P** 177119	-	**XPC0606** 284116	**XSDMLV0606** 284206 122252*	**XSDMRV0606** 284215 122261*
XPNW-R-BCB-2-0606 178633	**XPNW-R-BCB-2-0608** 178635	-	-	**XPN4MC-4P** 177119	**XPN4WMC-3P+N** 179302	**XPC0606** 284116	**XSDMLV0606** 284206 122252*	**XSDMRV0606** 284215 122261*
XPNW-R-BCB-2-0606 178633	**XPNW-R-BCB-2-0608** 178635	-	-	**XPN4MC-4P** 177119	-	**XPC0606** 284116	**XSDMLV0606** 284206 122252*	**XSDMRV0606** 284215 122261*
XPNW-R-BCB-2-0606 178633	**XPNW-R-BCB-2-0608** 178635	-	-	**XPN4MC-4P** 177119	**XPN4WMC-3P+N** 179302	**XPC0606** 284116	**XSDMLV0606** 284206 122252*	**XSDMRV0606** 284215 122261*

Note * Finish in special RAL colour

wa_vt65313 wa_vt63013 VT30009





7	7	7	19
Door to switchgear area closed can be used left or right IP42/IP55	Door to switchgear area with cut-out for measuring devices 96/96 IP42/IP55	Door to switchgear area with cut-out for measuring devices 144/144 IP42/IP55	Cable connection system
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	
XSDMC0606 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	see Page xx
XSDMC0606 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	see Page xx
XSDMC0606 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	see Page xx
XSDMC0606 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	see Page xx
XSDMC0606 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	see Page xx
XSDMC0606 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	see Page xx
XSDMC0606 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	see Page xx
XSDMC0606 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	see Page xx
XSDMC0606 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	see Page xx
XSDMC0606 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	see Page xx
XSDMC0606 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	see Page xx
XSDMC0606 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	see Page xx

Note * Finish in special RAL colour

wa_vt75913



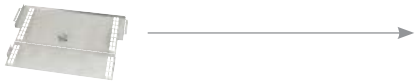
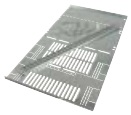
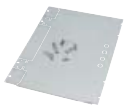
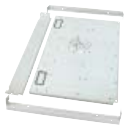
Item numbers of the exploded pictorial view	I_{cc} bis kA	I_e up to A	Poles	Installation type F = Fixed E = Withdrawable	Remote operation	fixed with mechanical lock	Fixed installation with rotary handle	Fixed installation with door coupling handle	Section width mm
Circuit Breakers NZM4, EVEN+OPPO									
	65kA - 400V 35kA - 690V	800-1600	2xNZM4-3P	F					600
			2xNZM4-3P	F	x				600
			2xNZM4-3P	F		x			600
			2xNZM4-3P	F			x		600
			2xNZM4-3P	F				x	600

xEnergy Main Switchboards

XP Section NZM4 in Form 4, Section width 600 mm (continued)

VT00109	vt03515		vt43215	vt44215	wa_vt34113	wa_vt56213	wa_vt62913	vt04015
								
10	9	9	9	9	9	9	9	8
Universal mounting plate	Front cover IP31	2x Front cover IP31	Front cover IP42/IP55	2x Front cover IP42/IP55	Front cover closed without cut-out IP42/IP55	2x Front cover closed without cut-out IP42/IP55	Crossbar	Mounting plate 1x NZM4 2x NZM4
Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pc.	Article No. per unit VPE = 1 Set	Article No. per unit VPE = 1 Set	Article No. per unit VPE = 1 Set	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO			EVEN+OPPO
XSMIB20 284257	-	**XM2N43F06C** 180480 186537*	-	**XM2N43F06C-55** 180505 186484*	-	**XMC060602** 107987 122560*	**XSFD0606** 113992 122619*	**XMN4F0602M** 177096
XSMIB20 284257	-	**XM2N43F06C** 180480 186537*	-	**XM2N43F06C-55** 180505 186484*	-	**XMC060602** 107987 122560*	**XSFD0606** 113992 122619*	**XMN4F0602M** 177096
XSMIB20 284257	-	**XM2N43F06C-XMV** 180482 186539*	-	**XM2N43F06C-55-XMV** 180507 186486*	-	**XMC060602** 107987 122560*	**XSFD0606** 113992 122619*	**XMN4F0602M** 177096
XSMIB20 284257	-	**XM2N43F06C** 180480 186537*	-	**XM2N43F06C-55** 180505 186484*	-	**XMC060602** 107987 122560*	**XSFD0606** 113992 122619*	**XMN4F0602M** 177096
XSMIB20 284257	-	-	-	-	-	**XMC060602** 107987 122560*	**XSFD0606** 113992 122619*	**XMN4F0602M** 177096

Note * Finish in special RAL colour

wa_vt70913		wa_vt72013	wa_vt34313	wa_vt62813	vt37115
					
15	15	18	12	12	13
Partition busbar area/connection area (only NZM) Section depth 600 mm for the EVEN installation type of coupling section	Partition busbar area/connection area (only NZM) Section depth 800 mm for the EVEN installation type of coupling section	Partition between feeder copper and connection copper on main busbar with NZM Form 4, only for the EVEN installation type	Partition switchgear area/busbar area (mounting plate) Form 2/4	Mounting plate partition switchgear/main busbar swivel-mounted	Partition switchgear top/bottom
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
EVEN+OPPO	EVEN+OPPO	EVEN	EVEN+OPPO		EVEN+OPPO
XPNBCB0602 289175	**XPNBCB0604** 289177	**XPNBCB-E-06** 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XP2N4F-MCB06** 178610
XPNBCB0602 289175	**XPNBCB0604** 289177	**XPNBCB-E-06** 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XP2N4F-R-MCB06** 178613
XPNBCB0602 289175	**XPNBCB0604** 289177	**XPNBCB-E-06** 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XP2N4F-DV-MCB06** 178612
XPNBCB0602 289175	**XPNBCB0604** 289177	**XPNBCB-E-06** 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XP2N4F-D-MCB06** 178611
XPNBCB0602 289175	**XPNBCB0604** 289177	**XPNBCB-E-06** 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XP2N4F-R-MCB06** 178613

Note * Finish in special RAL colour

vt40015	vt40115	vt35615	vt35315	VT126414	vt45515	wa_vt70513	wa_vt65513	wa_vt65413
								
14	14	17	17	16	16	11	7	7
Partition connection area D600	Partition connection area D800	Central universal mounting plate incoming area D600	Central universal mounting plate incoming area D800	Contact protection switchgear input/ output	Contact protection for 3P+N	Cover for connec-tion area, transparent	Door to switchgear area ventilated left IP31	Door to switchgear area ventilated right IP31
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO
XPNBCB-2-0606 178634	**XPNBCB-2-0608** 178636	**XPNCCB06** 178625	**XPNCCB08** 178626	**XP2N4MC-3P** 177120	-	**XPC0606** 284116	**XSDMLV0606** 284206 122252*	**XSDMRV0606** 284215 122261*
XPNBCB-2-0606 178634	**XPNBCB-2-0608** 178636	**XPNCCB06** 178625	**XPNCCB08** 178626	**XP2N4MC-3P** 177120	-	**XPC0606** 284116	**XSDMLV0606** 284206 122252*	**XSDMRV0606** 284215 122261*
XPNBCB-2-0606 178634	**XPNBCB-2-0608** 178636	**XPNCCB06** 178625	**XPNCCB08** 178626	**XP2N4MC-3P** 177120	-	**XPC0606** 284116	**XSDMLV0606** 284206 122252*	**XSDMRV0606** 284215 122261*
XPNBCB-2-0606 178634	**XPNBCB-2-0608** 178636	**XPNCCB06** 178625	**XPNCCB08** 178626	**XP2N4MC-3P** 177120	-	**XPC0606** 284116	**XSDMLV0606** 284206 122252*	**XSDMRV0606** 284215 122261*
XPNBCB-2-0606 178634	**XPNBCB-2-0608** 178636	**XPNCCB06** 178625	**XPNCCB08** 178626	**XP2N4MC-3P** 177120	-	**XPC0606** 284116	**XSDMLV0606** 284206 122252*	**XSDMRV0606** 284215 122261*

Note * Finish in special RAL colour

wa_vt65313



wa_vt63013



VT30009



7	7	7	19
Door to switchgear area closed can be used left or right IP42/IP55	Door to switchgear area with cut-out for measuring devices 96/96 IP42/IP55	Door to switchgear area with cut-out for measuring devices 144/144 IP42/IP55	Cable connection system
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	
XSDMC0606 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	see Page xx
XSDMC0606 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	see Page xx
XSDMC0606 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	see Page xx
XSDMC0606 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	see Page xx
XSDMC0606 284195 122241*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	see Page xx

Note * Finish in special RAL colour

wa_vt75913



Item numbers of the exploded pictorial view

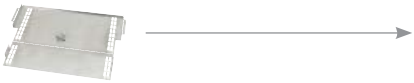
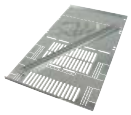
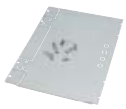
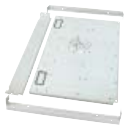
	I_{cc} bis kA	I_e up to A	Poles	Installation type F = Fixed E = Withdrawable	Remote operation	fixed with mechanical lock	Fixed installation with rotary handle	Fixed installation with door coupling handle	Section width mm
Circuit Breakers NZM4, EVEN+OPPO									
	65kA - 400V 35kA - 690V	800-1600	NZM4-4P, 3P+N	F					800
			NZM4-4P, 3P+N	F	x				800
			NZM4-4P, 3P+N	F		x			800
			NZM4-4P, 3P+N	F			x		800
			NZM4-4P, 3P+N	F				x	800
			NZM4-4P, 3P+N	E					800
			NZM4-4P, 3P+N	E	x				800
			2xNZM4-4P, 3P+N	F					800
			2xNZM4-4P, 3P+N	F	x				800
			2xNZM4-4P, 3P+N	F		x			800
			2xNZM4-4P, 3P+N	F			x		800
			2xNZM4-4P, 3P+N	F				x	800
			2xNZM4-3P	E					800

xEnergy Main Switchboards

XP Section NZM4 in Form 4, Section width 800 mm

VT00109	vt03515		vt43215	vt44215	wa_vt34113	wa_vt56213	wa_vt62913	vt04015
								
10	9	9	9	9	9	9	9	8
Universal mounting plate	Front cover IP31	2x Front cover IP31	Front cover IP42/IP55	2x Front cover IP42/IP55	Front cover closed without cut-out IP42/IP55	2x Front cover closed without cut-out IP42/IP55	Crossbar	Mounting plate 1x NZM4 2x NZM4
Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pc.	Article No. per unit VPE = 1 Set	Article No. per unit VPE = 1 Set	Article No. per unit VPE = 1 Set	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO			EVEN+OPPO
XSMIB20 284257	**XMN4F08C** 177108 186619*	-	**XMN4F08C-55** 180504 186483*	-	**XMC0608** 102947 122419*	-	**XSFD0608** 113993 122620*	**XMN4F08M** 177125
XSMIB20 284257	**XMN4F08C** 177108 186619*	-	**XMN4F08C-55** 180504 186483*	-	**XMC0608** 102947 122419*	-	**XSFD0608** 113993 122620*	**XMN4F08M** 177125
XSMIB20 284257	**XMN4F08C-XMV** 177109 186620*	-	**XMN44F08C-55-XMV** 180503 186482*	-	**XMC0608** 102947 122419*	-	**XSFD0608** 113993 122620*	**XMN4F08M** 177125
XSMIB20 284257	**XMN4F08C** 177108 186619*	-	**XMN4F08C-55** 180504 186483*	-	**XMC0608** 102947 122419*	-	**XSFD0608** 113993 122620*	**XMN4F08M** 177125
XSMIB20 284257	-	-	-	-	**XMC0608** 102947 122419*	-	**XSFD0608** 113993 122620*	**XMN4F08M** 177125
XSMIB20 284257	**XMN44W08C** 180486 186543*	-	**XMN44W08C-55** 180512 186491*	-	**XMC0608** 102947 122419*	-	**XSFD0608** 113993 122620*	**XMN4F08M** 177125
XSMIB20 284257	**XMN44W08C-XR** 180490 186547*	-	**XMN44W08C-55-XR** 180516 186495*	-	**XMC0608** 102947 122419*	-	**XSFD0608** 113993 122620*	**XMN4F08M** 177125
XSMIB20 284257	-	**XM2N44F08C** 180481 186538*	-	**XM2N44F08C-55** 180506 186485*	-	**XMC060802** 107988 122561*	**XSFD0608** 113993 122620*	**XMN4F0802M** 177097
XSMIB20 284257	-	**XM2N44F08C** 180481 186538*	-	**XM2N44F08C-55** 180506 186485*	-	**XMC060802** 107988 122561*	**XSFD0608** 113993 122620*	**XMN4F0802M** 177097
XSMIB20 284257	-	**XM2N44F08C-XMV** 180483 186540*	-	**XM2N44F08C-55-XMV** 180508 186487*	-	**XMC060802** 107988 122561*	**XSFD0608** 113993 122620*	**XMN4F0802M** 177097
XSMIB20 284257	-	**XM2N44F08C** 180481 186538*	-	**XM2N44F08C-55** 180506 186485*	-	**XMC060802** 107988 122561*	**XSFD0608** 113993 122620*	**XMN4F0802M** 177097
XSMIB20 284257	-	-	-	-	-	**XMC060802** 107988 122561*	**XSFD0608** 113993 122620*	**XMN4F0802M** 177097
XSMIB20 284257	-	**XM2N43W08C** 180491 186548*	-	**XM2N43W08C-55** 180517 186496*	-	**XMC060802** 107988 122561*	**XSFD0608** 113993 122620*	**XMN4W0802M** 177098

Note * Finish in special RAL colour

wa_vt70913		wa_vt72013	wa_vt34313	wa_vt62813	vt37115
					
15	15	18	12	12	13
Partition busbar area/connection area (only NZM) Section depth 600 mm for the EVEN installation type of coupling section	Partition busbar area/connection area (only NZM) Section depth 800 mm for the EVEN installation type of coupling section	Partition between feeder copper and connection copper on main busbar with NZM Form 4, only for the EVEN installation type	Partition switchgear area/busbar area (mounting plate) Form 2/4	Mounting plate partition switchgear/main busbar swivel-mounted	Partition switchgear top/bottom
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
EVEN+OPPO	EVEN+OPPO	EVEN	EVEN+OPPO		EVEN+OPPO
XPNBCB0802 118735	**XPNBCB0804** 118736	**XPNBCB-E-08** 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPN4F-D-MCB08** 178647
XPNBCB0802 118735	**XPNBCB0804** 118736	**XPNBCB-E-08** 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPN4F-R-MCB08** 178649
XPNBCB0802 118735	**XPNBCB0804** 118736	**XPNBCB-E-08** 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPN4W-MCB08** 178608
XPNBCB0802 118735	**XPNBCB0804** 118736	**XPNBCB-E-08** 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPN4W-R-MCB08** 178609
XPNBCB0802 118735	**XPNBCB0804** 118736	**XPNBCB-E-08** 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XP2N4F-MCB08** 178614
XPNBCB0802 118735	**XPNBCB0804** 118736	**XPNBCB-E-08** 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XP2N4F-R-MCB08** 178617
XPNBCB0802 118735	**XPNBCB0804** 118736	**XPNBCB-E-08** 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XP2N4F-DV-MCB08** 178616
XPNBCB0802 118735	**XPNBCB0804** 118736	**XPNBCB-E-08** 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XP2N4F-D-MCB08** 178615
XPNBCB0802 118735	**XPNBCB0804** 118736	**XPNBCB-E-08** 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XP2N4F-R-MCB08** 178617
XPNBCB0802 118735	**XPNBCB0804** 118736	**XPNBCB-E-08** 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XP2N4W-MCB08** 178618
XPNBCB0802 118735	**XPNBCB0804** 118736	**XPNBCB-E-08** 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	
XPNBCB0802 118735	**XPNBCB0804** 118736	**XPNBCB-E-08** 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	
XPNBCB0802 118735	**XPNBCB0804** 118736	**XPNBCB-E-08** 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	

Note * Finish in special RAL colour

xEnergy Main Switchboards

XP Section NZM4 in Form 4, Section width 800 mm

vt40015	vt40115	vt35615	vt35315	VT126414	vt45515	wa_vt70513	wa_vt65513	wa_vt65413
								
14	14	17	17	16	16	11	7	7
Partition connection area D600	Partition connection area D800	Central universal mounting plate incoming area D600	Central universal mounting plate incoming area D800	Contact protection switchgear input/ output	Contact protection for 3P+N	Cover for connec-tion area, transparent	Door to switchgear area ventilated left IP31	Door to switchgear area ventilated right IP31
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO
XPNBCB-2-0806 178638	**XPNBCB-2-0808** 178640	-	-	**XP2N4MC-4P** 177121	**XPN4FMC-3P+N** 179301	**XPC0608** 284117	**XSDMLV0608** 284207 122253*	**XSDMRV0608** 284216 122262*
XPNBCB-2-0806 178638	**XPNBCB-2-0808** 178640	-	-	**XP2N4MC-4P** 177121	**XPN4FMC-3P+N** 179301	**XPC0608** 284117	**XSDMLV0608** 284207 122253*	**XSDMRV0608** 284216 122262*
XPNW-R-BCB-2-0808 178639	**XPNW-R-BCB-2-0808** 178639	-	-	**XP2N4MC-4P** 177121	**XPN4WMC-3P+N** 179302	**XPC0608** 284117	**XSDMLV0608** 284207 122253*	**XSDMRV0608** 284216 122262*
XPNW-R-BCB-2-0808 178639	**XPNW-R-BCB-2-0808** 178639	-	-	**XP2N4MC-4P** 177121	**XPN4WMC-3P+N** 179302	**XPC0608** 284117	**XSDMLV0608** 284207 122253*	**XSDMRV0608** 284216 122262*
XPNBCB-2-0806 178638	**XPNBCB-2-0808** 178640	**XPNCCB06** 178625	**XPNCCB08** 178626	**XP2N4MC-4P** 177121	**XP2N4FMC-3P+N** 180523	**XPC0608** 284117	**XSDMLV0608** 284207 122253*	**XSDMRV0608** 284216 122262*
XPNBCB-2-0806 178638	**XPNBCB-2-0808** 178640	**XPNCCB06** 178625	**XPNCCB08** 178626	**XP2N4MC-4P** 177121	**XP2N4FMC-3P+N** 180523	**XPC0608** 284117	**XSDMLV0608** 284207 122253*	**XSDMRV0608** 284216 122262*
XPNBCB-2-0806 178638	**XPNBCB-2-0808** 178640	**XPNCCB06** 178625	**XPNCCB08** 178626	**XP2N4MC-4P** 177121	**XP2N4FMC-3P+N** 180523	**XPC0608** 284117	**XSDMLV0608** 284207 122253*	**XSDMRV0608** 284216 122262*
XPNBCB-2-0806 178638	**XPNBCB-2-0808** 178640	**XPNCCB06** 178625	**XPNCCB08** 178626	**XP2N4MC-4P** 177121	**XP2N4FMC-3P+N** 180523	**XPC0608** 284117	**XSDMLV0608** 284207 122253*	**XSDMRV0608** 284216 122262*
XPNBCB-2-0806 178638	**XPNBCB-2-0808** 178640	**XPNCCB06** 178625	**XPNCCB08** 178626	**XP2N4MC-4P** 177121	**XP2N4FMC-3P+N** 180523	**XPC0608** 284117	**XSDMLV0608** 284207 122253*	**XSDMRV0608** 284216 122262*
XPNW-R-BCB-2-0808 178639	**XPNW-R-BCB-2-0808** 178639	**XPNW-R-CCB06** 178627	**XPNW-R-CCB08** 178628	**XP2N4MC-4P** 177121	-	**XPC0608** 284117	**XSDMLV0608** 284207 122253*	**XSDMRV0608** 284216 122262*
XPNBCB-2-0806 178638	**XPNBCB-2-0808** 178640	**XPNCCB06** 178625	**XPNCCB08** 178626	**XP2N4MC-4P** 177121	**XP2N4FMC-3P+N** 180523	**XPC0608** 284117	**XSDMLV0608** 284207 122253*	**XSDMRV0608** 284216 122262*
XPNBCB-2-0806 178638	**XPNBCB-2-0808** 178640	**XPNCCB06** 178625	**XPNCCB08** 178626	**XP2N4MC-4P** 177121	**XP2N4FMC-3P+N** 180523	**XPC0608** 284117	**XSDMLV0608** 284207 122253*	**XSDMRV0608** 284216 122262*
XPNW-R-BCB-2-0808 178639	**XPNW-R-BCB-2-0808** 178639	**XPNCCB06** 178625	**XPNCCB08** 178626	**XP2N4MC-4P** 177121	-	**XPC0608** 284117	**XSDMLV0608** 284207 122253*	**XSDMRV0608** 284216 122262*

Note * Finish in special RAL colour

wa_vt65313



wa_vt63013



VT30009



7	7	7	19
Door to switchgear area closed can be used left or right IP42/IP55	Door to switchgear area with cut-out for measuring devices 96/96 IP42/IP55	Door to switchgear area with cut-out for measuring devices 144/144 IP42/IP55	Cable connection system
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	
XSDMC0608 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	see Page xx
XSDMC0608 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	see Page xx
XSDMC0608 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	see Page xx
XSDMC0608 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	see Page xx
XSDMC0608 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	see Page xx
XSDMC0608 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	see Page xx
XSDMC0608 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	see Page xx
XSDMC0608 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	see Page xx
XSDMC0608 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	see Page xx
XSDMC0608 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	see Page xx
XSDMC0608 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	see Page xx
XSDMC0608 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	see Page xx
XSDMC0608 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	see Page xx

Note * Finish in special RAL colour

wa_vt75913

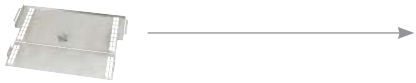
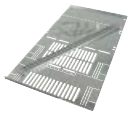
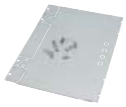
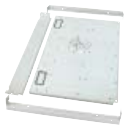


Item numbers of the exploded pictorial view	I_{cc} bis kA	I_e up to A	Poles	Installation type F = Fixed E = Withdrawable	Remote operation	fixed with mechanical lock	Fixed installation with rotary handle	Fixed installation with door coupling handle	Section width mm
Circuit Breakers NZM4, EVEN+OPPO									
	65kA - 400V 35kA - 690V	800-1600	2xNZM4-3P	E	x				800
			2xNZM4-4P, 3P+N	E					1000
			2xNZM4-4P, 3P+N	E	x				1000

XP Section NZM4 in Form 4, Section width 800 mm (continued) and 1000 mm

VT00109	vt03515		vt43215	vt44215	wa_vt34113	wa_vt56213	wa_vt62913	vt04015
								
10	9	9	9	9	9	9	9	8
Universal mounting plate	Front cover IP31	2x Front cover IP31	Front cover IP42/IP55	2x Front cover IP42/IP55	Front cover closed without cut-out IP42/IP55	2x Front cover closed without cut-out IP42/IP55	Crossbar	Mounting plate 1x NZM4 2x NZM4
Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pc.	Article No. per unit VPE = 1 Set	Article No. per unit VPE = 1 Set	Article No. per unit VPE = 1 Set	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO			EVEN+OPPO
XSMIB20 284257	-	**XM2N43W08C-XR** 180493 186550*	-	**XM2N43W08C-55-XR** 180519 186498*	-	**XMC060802** 107988 122561*	**XSFD0608** 113993 122620*	**XMN4W0802M** 177098
XSMIB20 284257	-	**XM2N44W10C** 180492 186549*	-	**XM2N44W10C-55** 180518 186497*	**XMC0610** 102948 122420*	-	**XSFD0610** 113994 122621*	**XMN4W1002M** 177099
XSMIB20 284257	-	**XM2N44W10C-XR** 180494 186551*	-	**XM2N44W10C-55-XR** 180520 186499*	**XMC0610** 102948 122420*	-	**XSFD0610** 113994 122621*	**XMN4W1002M** 177099

Note * Finish in special RAL colour

wa_vt70913		wa_vt72013	wa_vt34313	wa_vt62813	vt37115
					
15	15	18	12	12	13
Partition busbar area/connection area (only NZM) Section depth 600 mm for the EVEN installation type of coupling section	Partition busbar area/connection area (only NZM) Section depth 800 mm for the EVEN installation type of coupling section	Partition between feeder copper and connection copper on main busbar with NZM Form 4, only for the EVEN installation type	Partition switchgear area/busbar area (mounting plate) Form 2/4	Mounting plate partition switchgear/main busbar swivel-mounted	Partition switchgear top/bottom
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
EVEN+OPPO	EVEN+OPPO	EVEN	EVEN+OPPO		EVEN+OPPO
XPNBCB0802 118735	**XPNBCB0804** 118736	**XPNBCB-E-08** 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XP2N4W-R-MCB08** 178619
XPNBCB1002 178623	**XPNBCB1004** 178624	**XPNBCB-E-10** 121451	**XPBMB0610** 102949	**XPBMB0610-ROT** 112315	**XP2N4W-MCB10** 178620
XPNBCB1002 178623	**XPNBCB1004** 178624	**XPNBCB-E-10** 121451	**XPBMB0610** 102949	**XPBMB0610-ROT** 112315	**XP2N4W-R-MCB10** 178621

Note * Finish in special RAL colour

XP Section NZM4 in Form 4, Section width 800 mm (continued) and 1000 mm

vt40015	vt40115	vt35615	vt35315	VT126414	vt45515	wa_vt70513	wa_vt65513	wa_vt65413
								
14	14	17	17	16	16	11	7	7
Partition connection area D600	Partition connection area D800	Central universal mounting plate incoming area D600	Central universal mounting plate incoming area D800	Contact protection switchgear input/ output	Contact protection for 3P+N	Cover for connec-tion area, transparent	Door to switchgear area ventilated left IP31	Door to switchgear area ventilated right IP31
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	EVEN+OPPO
XPNW-R-BCB-2-0808 178639	**XPNW-R-BCB-2-0808** 178639	**XPNW-R-CCB06** 178627	**XPNW-R-CCB08** 178628	**XP2N4MC-4P** 177121	**-**	**XPC0608** 284117	**XSDMLV0608** 284207 122253*	**XSDMRV0608** 284216 122262*
XPNW-R-BCB-2-1006 178641	**XPNW-R-BCB-2-1008** 178643	**XPNCCB06** 178625	**XPNCCB08** 178626	**XP2N4MC-4P** 177121	**XPN4WMC-3P+N** 179302	**XPC0610** 133078	**XSDMLV0610** 285507 122375*	**XSDMRV0610** 285508 122376*
XPNW-R-BCB-2-1006 178641	**XPNW-R-BCB-2-1008** 178643	**XPNW-R-CCB06** 178627	**XPNW-R-CCB08** 178628	**XP2N4MC-4P** 177121	**XPN4WMC-3P+N** 179302	**XPC0610** 133078	**XSDMLV0610** 285507 122375*	**XSDMRV0610** 285508 122376*

Note * Finish in special RAL colour

wa_vt65313



wa_vt63013



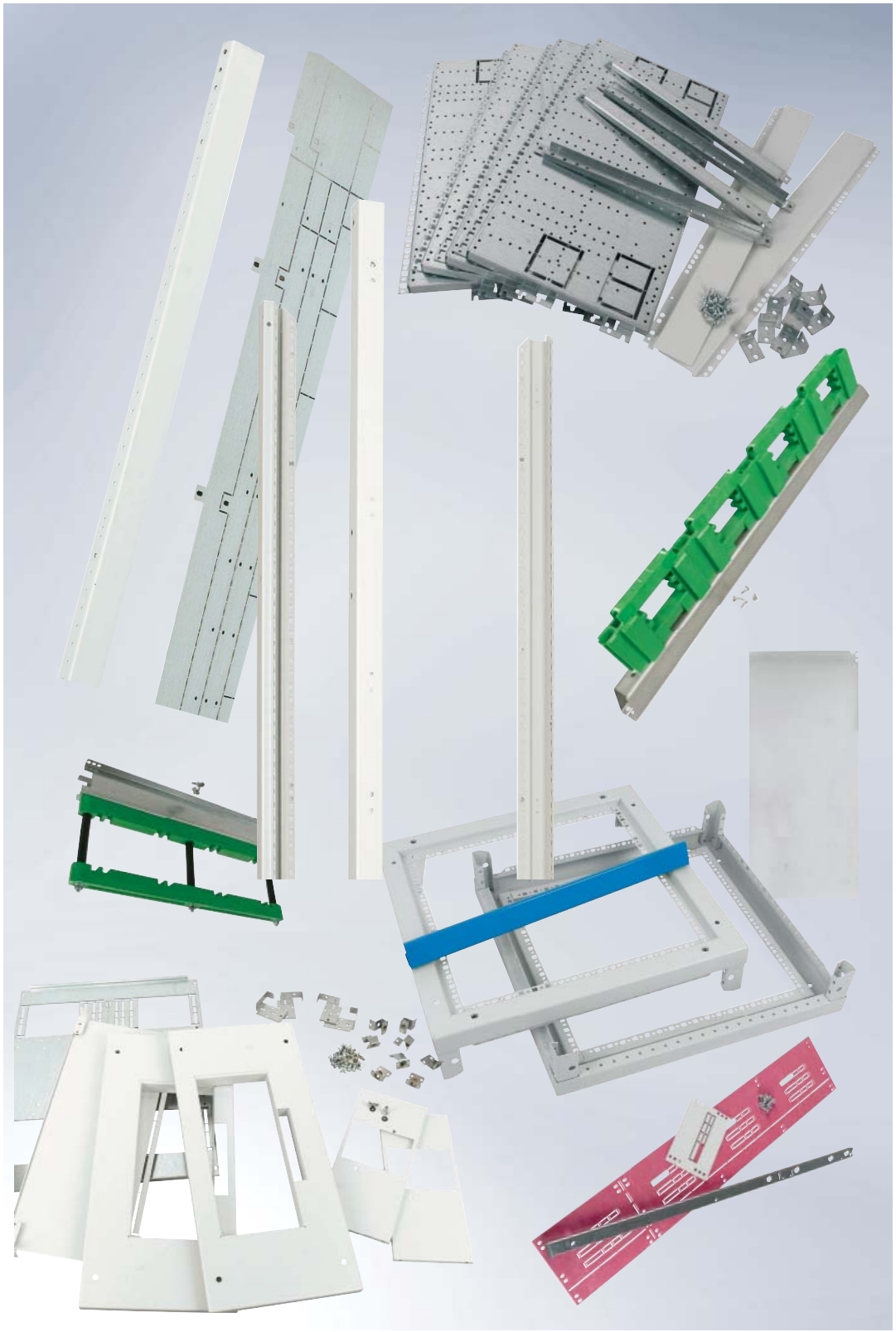
VT30009



7	7	7	19
Door to switchgear area closed can be used left or right IP42/IP55	Door to switchgear area with cut-out for measuring devices 96/96 IP42/IP55	Door to switchgear area with cut-out for measuring devices 144/144 IP42/IP55	Cable connection system
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
EVEN+OPPO	EVEN+OPPO	EVEN+OPPO	
XSDMC0608 284196 122242*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	see Page xx
XSDMC0610 285506 122374*	**XSDMC0610-1-96** 112320 122610*	**XSDMC0610-1-144** 112330 122615*	see Page xx
XSDMC0610 285506 122374*	**XSDMC0610-1-96** 112320 122610*	**XSDMC0610-1-144** 112330 122615*	see Page xx

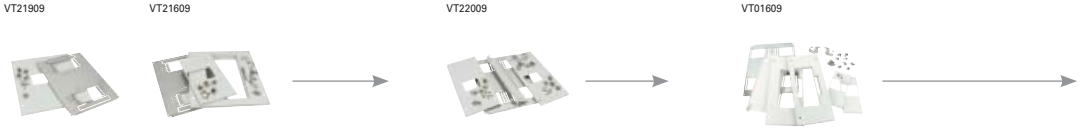
Note * Finish in special RAL colour

Components NZM3/4 Form 4



Fitting kits for NZM3 Form 4

Including base plate, front plate, fastening bracket, cross ridges and fastening material.



Section width mm	Fitting kit for NZM3 in incoming/ outgoing section Article No. per unit	Fitting kit for NZM3 in incoming/ outgoing section withdrawable Article No. per unit	Fitting kit for NZM3 in incoming/ outgoing section withdrawable with motor lift Article No. per unit	Fitting kit for 2 NZM3 3-pole in incoming/ outgoing section Article No. per unit	Fitting kit for 2 NZM3 4-pole in incoming/ outgoing section Article No. per unit	Fitting kit for 2 NZM3 3-pole in incoming/ outgoing section withdrawable Article No. per unit	Fitting kit for 2 NZM3 3-pole in incoming/ outgoing section withdrawable with motor lift Article No. per unit	Fitting kit for 2 NZM3 4-pole in incoming/ outgoing section withdrawable Article No. per unit
NZM3 Form 4								
425	**XMN3304** 124411 124412*	**XMN3304-1** 129009 129012*	**XMN3304-2** 129010 129013*	-	-	-	-	-
600	-	-	-	**XMN330602** 107982 122555*	**XMN340602** 107983 122556*	**XMN330602-1** 110274 122602*	**XMN330602-R** 110277 122605*	-
800	-	-	-	-	-	-	-	**XMN340802-1** 110275 122603*

Key to single fitting kits:

XMN3304-1

- Type
- Size of circuit breaker
- Number of poles
- Section width
- ohne = Fixed installation type
- 1 = withdrawable
- 2 = withdrawable + motor lift

Key to double fitting kits:

XMN330602-1

- Type
- Size of circuit breaker
- Number of poles
- Section width
- Number of switchgear
- ohne = Fixed installation type
- 1 = withdrawable
- 2 = withdrawable + motor lift
- R = motor lift

Note * Finish in special RAL colour

Fitting kits for NZM3 Form 4 (continued)

Including base plate, front plate, fastening bracket, cross ridges and fastening material.

VT01609

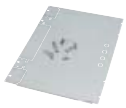


Section width mm	Fitting kit for 2 NZM3 3-pole in incoming/ outgoing section withdrawable with motor lift Article No. per unit	Fitting kit for 2 NZM3 4-pole in incoming/ outgoing section withdrawable with motor lift Article No. per unit
NZM3 Form 4		
425	-	-
600	**XMN330602-2** 125995 125996*	-
800	-	**XMN340802-2** 125997 125998*

Note * Finish in special RAL colour

Mounting plate NZM3 Form 4

wa_vt34313

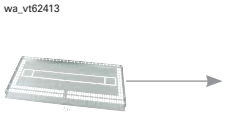


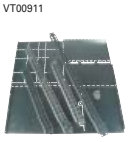
wa_vt62813



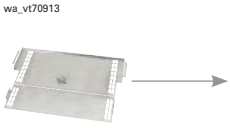
Section width mm	Partition switchgear area/ busbar area (mounting plate) Form 2/4 Article No. per unit unit = 1 pc.	Mounting plate partition switchgear/main busbar swivel-mounted Article No. per unit unit = 1 pc.
425	**XPBMB0604** 284107	**XPBMB0604-ROT** 112312
600	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313
800	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314

Partitions NZM3 Form 4











Section width mm	Partition connection area/ switchgear area Form 4 Article No. per unit unit = 1 pc.	Partition switchgear area/ switchgear area Form 4 Article No. per unit unit = 1 pc.	Separation panel between connection areas of 2x NZM3 Article No. per unit unit = 1 pc.	Partition between feeder copper and connection copper on main busbar with Form 4 for EVEN only Article No. per unit unit = 1 pc.	Partition busbar area/ connection area (only NZM) Section depth 600 mm Form 4 Article No. per unit unit = 1 pc.	Partition busbar area/ connection area (only NZM) Section depth 800 mm Form 4 Article No. per unit unit = 1 pc.	Partition connection area Form 4 Article No. per unit unit = 1 pc.
425	**XPNMCB04** 284174	**XPMMB0404** 284163	**XPNCCB** 126009	**XPNBCB-E-04** 121448	**XPNBCB0402** 289174	**XPNBCB0404** 289176	**XPC0604** 284115
600	**XPNMCB06** 284175	**XPMMB0604** 284164	**-**	**XPNBCB-E-06** 121449	**XPNBCB0602** 289175	**XPNBCB0604** 289177	**XPC0606** 284116
800	**XPNMCB08** 116455	**XPMMB0804** 284165	**-**	**XPNBCB-E-08** 121450	**XPNBCB0802** 118735	**XPNBCB0804** 118736	**XPC0608** 284117

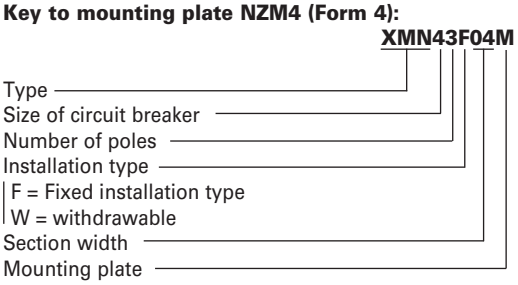
Mounting plates NZM4 Form 4



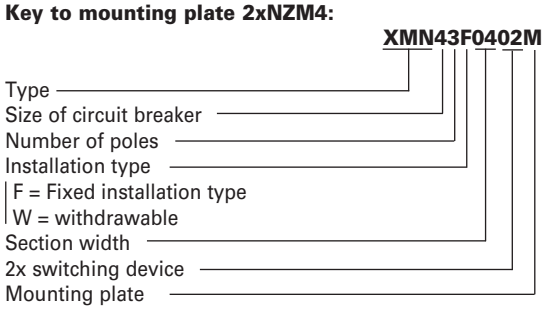


Section width mm	Mounting plate NZM4 3-pole incoming/ outgoing section fixed/motor lift Article No. per unit unit = 1 pc.	Mounting plate NZM4 3-pole incoming/ outgoing section withdrawable/ motor lift Article No. per unit unit = 1 pc.	Mounting plate NZM4 4-pole incoming/ outgoing section fixed/motor lift Article No. per unit unit = 1 pc.	Mounting plate NZM4 4-pole incoming/ outgoing section withdrawable/ motor lift Article No. per unit unit = 1 pc.	Mounting plate 2x NZM4 3-pole incoming/ outgoing section fixed/motor lift Article No. per unit unit = 1 pc.	Mounting plate 2x NZM4 4-pole incoming/ outgoing section fixed/motor lift Article No. per unit unit = 1 pc.	Mounting plate 2x NZM4 3-pole incoming/ outgoing section withdrawable/ motor lift Article No. per unit unit = 1 pc.	Mounting plate 2x NZM4 4-pole incoming/ outgoing section withdrawable/ motor lift Article No. per unit unit = 1 pc.
425	**XMN43F04M** 177122	-	-	-	-	-	-	-
600	**XMN4F06M** 177124	**XMN4W06M** 177094	**XMN4F06M** 177124	**XMN4W06M** 177094	**XMN4F0602M** 177096	-	-	-
800	-	-	**XMN4F08M** 177125	**XMN4W08M** 177095	-	**XMN4F0802M** 177097	**XMN4W0802M** 177098	-
1000	-	-	-	-	-	-	-	**XMN4W1002M** 177099

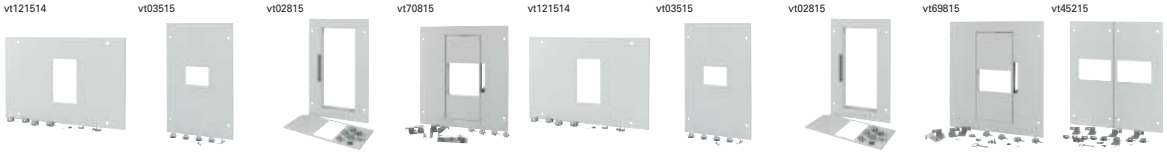
Key to mounting plate NZM4 (Form 4):



Key to mounting plate 2xNZM4:



Front cover NZM4 Form 4



Section width mm	Front cover NZM4 3-pole fixed/remote operation IP31 Article No. per unit unit = 1 pc.	Front cover NZM4 3-pole fixed with mechanical lock IP31 Article No. per unit unit = 1 pc.	Front cover NZM4 3-pole withdrawable IP31 Article No. per unit unit = 1 pc.	Front cover NZM4 3-pole withdrawable with remote operation IP31 Article No. per unit unit = 1 pc.	Front cover NZM4 4-pole fixed/remote operation IP31 Article No. per unit unit = 1 pc.	Front cover NZM4 4-pole fixed with mechanical lock IP31 Article No. per unit unit = 1 pc.	Front cover NZM4 4-pole withdrawable IP31 Article No. per unit unit = 1 pc.	Front cover NZM4 4-pole withdrawable with remote operation IP31 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 3-pole fixed/remote operation IP31 Article No. per unit unit = 1 pc.
425	**XMN43F04C** 177100 186611*	**XMN43F04C-XMV** 177101 186612*	-	-	-	-	-	-	-
600	**XMN43F06C** 177104 186615*	**XMN43F06C-XMV** 177105 186616*	**XMN43W06C** 180484 186541*	**XMN43W06C-XR** 180488 186541*	**XMN44F06C** 177106 186617*	**XMN44F06C-XMV** 177107 186618*	**XMN44W06C** 180485 186542*	**XMN44W06C-XR** 180489 186546*	**XM2N43F06C** 180480 186537*
800	-	-	-	-	**XMN4F08C** 177108 186619*	**XMN4F08C-XMV** 177109 186620*	**XMN44W08C** 180486 186543*	**XMN44W08C-XR** 180490 186547*	-
1000	-	-	-	-	-	-	-	-	-

Key to front cover NZM4 IP31:

XMN43F06C-XR

- Type
- Size of circuit breaker
- Number of poles
- Installation type
  - F = Fixed installation type
  - W = withdrawable
- Section width
- Cover
- Combination options
  - XR = Remote operation
  - XMV = Mechanical lock

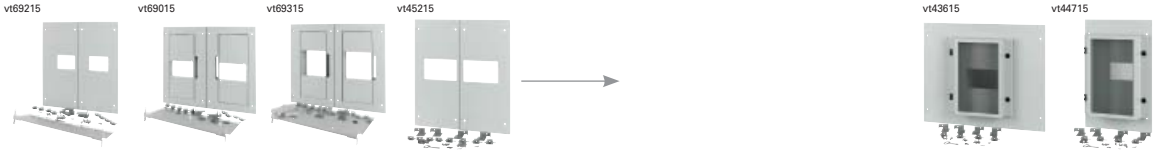
Key to front cover NZM4 IP55:

XMN43F06C-55-XR

- Type
- Size of circuit breaker
- Number of poles
- Installation type
  - F = Fixed installation type
  - W = withdrawable
- Section width
- Cover
- Degree of protection IP55
- Combination options
  - XR = Remote operation
  - XMV = Mechanical lock

Note * Finish in special RAL colour

Front cover NZM4 Form 4 (continued)



Section width mm	Front cover 2x NZM4 3-pole fixed with mechanical lock IP31 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 3-pole withdrawable IP31 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 3-pole withdrawable with remote operation IP31 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 4-pole fixed/remote operation IP31 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 4-pole fixed with mechanical lock IP31 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 4-pole withdrawable IP31 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 4-pole withdrawable with remote operation IP31 Article No. per unit unit = 1 pc.	Front cover NZM4 3-pole fixed/remote operation IP42/IP55 Article No. per unit unit = 1 pc.	Front cover NZM4 3-pole fixed with mechanical lock IP42/IP55 Article No. per unit unit = 1 pc.
425	-	-	-	-	-	-	-	**XMN43F04C-55** 180497 186554*	**XMN43F04C-55-XMV** 180495 186552*
600	**XM2N43F06C-XMV** 180482 186539*	-	-	-	-	-	-	**XMN43F06C-55** 180501 186558*	**XMN43F06C-55-XMV** 180499 186556*
800	-	**XM2N43W08C** 180491 186548*	**XM2N43W08C-XR** 180493 186550*	**XM2N44F08C** 180481 186538*	**XM2N44F08C-XMV** 180483 186540*	-	-	-	-
1000	-	-	-	-	-	-	**XM2N44W10C-XR** 180494 186551*	-	-

Key to front cover NZM4 IP31:

XMN43F06C-XR

- Type
- Size of circuit breaker
- Number of poles
- Installation type
  - F = Fixed installation type
  - W = withdrawable
- Section width
- Cover
- Combination options
  - XR = Remote operation
  - XMV = Mechanical lock

Key to front cover NZM4 IP55:

XMN43F06C-55-XR

- Type
- Size of circuit breaker
- Number of poles
- Installation type
  - F = Fixed installation type
  - W = withdrawable
- Section width
- Cover
- Degree of protection IP55
- Combination options
  - XR = Remote operation
  - XMV = Mechanical lock

Note * Finish in special RAL colour

Front cover NZM4 Form 4 (continued)



Section width mm	Front cover NZM4 3-pole withdrawable IP42/IP55 Article No. per unit unit = 1 pc.	Front cover NZM4 3-pole withdrawable with remote operation IP42/IP55 Article No. per unit unit = 1 pc.	Front cover NZM4 4-pole fixed/remote operation IP42/IP55 Article No. per unit unit = 1 pc.	Front cover NZM4 4-pole fixed with mechanical lock IP42/IP55 Article No. per unit unit = 1 pc.	Front cover NZM4 4-pole withdrawable IP42/IP55 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 3-pole fixed/remote operation IP42/IP55 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 3-pole fixed with mechanical lock IP42/IP55 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 3-pole withdrawable IP42/IP55 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 3-pole withdrawable with remote operation IP42/IP55 Article No. per unit unit = 1 pc.
425	**XMN43W04C-55** 180509 186488*	**XMN43W04C-55-XR** 180513 186492*	-	-	-	-	-	-	-
600	**XMN43W06C-55** 180510 186489*	**XMN43W06C-55-XR** 180514 186493*	**XMN44F06C-55** 180502 186481*	**XMN44F06C-55-XMV** 180500 186557*	**XMN44W06C-55** 180511 186490*	**XM2N43F06C-55** 180505 186484*	**XM2N43F06C-55-XMV** 180507 186486*	-	-
800	-	-	**XMN4F08C-55** 180504 186483*	**XMN44F08C-55-XMV** 180503 186482*	**XMN43W06C-55-XR** 180514 186493*	-	-	**XM2N43W08C-55** 180517 186496*	**XM2N43W08C-55-XR** 180519 186498*
1000	-	-	-	-	-	-	-	-	-

Key to front cover NZM4 IP31:

XMN43F06C-XR

- Type
- Size of circuit breaker
- Number of poles
- Installation type
  - F = Fixed installation type
  - W = withdrawable
- Section width
- Cover
- Combination options
  - XR = Remote operation
  - XMV = Mechanical lock

Key to front cover NZM4 IP55:

XMN43F06C-55-XR

- Type
- Size of circuit breaker
- Number of poles
- Installation type
  - F = Fixed installation type
  - W = withdrawable
- Section width
- Cover
- Degree of protection IP55
- Combination options
  - XR = Remote operation
  - XMV = Mechanical lock

Note * Finish in special RAL colour

Front cover NZM4 Form 4 (continued)



Section width mm	Front cover 2x NZM4 4-pole fixed/remote operation IP42/IP55 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 4-pole fixed with mechanical lock IP42/IP55 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 4-pole withdrawable IP42/IP55 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 4-pole withdrawable with remote operation IP42/IP55 Article No. per unit unit = 1 pc.	Front cover NZM4 closed without cut-out IP42/IP55 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 closed without cut-out IP42/IP55 Article No. per unit unit = 1 pc.
425	-	-	-	-	**XMC0604** 102945 122417*	-
600	-	-	-	-	**XMC0606** 102946 122418*	**XMC060602** 107987 122560*
800	**XM2N44F08C-55** 180506 186485*	**XM2N44F08C-55-XMV** 180508 186487*	-	-	**XMC0608** 102947 122419*	**XMC060802** 107988 122561*
1000	-	-	**XM2N44W10C-55** 180518 186497*	**XM2N44W10C-55-XR** 180520 186499*	**XMC0610** 102948 122420*	-

Key to front cover NZM4 IP31:

XMN43F06C-XR

- Type
- Size of circuit breaker
- Number of poles
- Installation type
  - F = Fixed installation type
  - W = withdrawable
- Section width
- Cover
- Combination options
  - XR = Remote operation
  - XMV = Mechanical lock

Key to front cover NZM4 IP55:

XMN43F06C-55-XR

- Type
- Size of circuit breaker
- Number of poles
- Installation type
  - F = Fixed installation type
  - W = withdrawable
- Section width
- Cover
- Degree of protection IP55
- Combination options
  - XR = Remote operation
  - XMV = Mechanical lock

Note * Finish in special RAL colour

Partitions NZM4 Form 4

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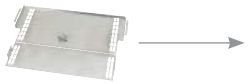

Section width mm	Poles	Installation Typ F = fixed E = withdrawable	Remote operation	Fixed installation with mechanical lock	Fixed installation with rotary handle	Fixed installation with door coupling handle	Partition busbar area/ connection area (only NZM) Section depth 600 mm, for EVEN coupling section Article No. per unit unit = 1 pc.	Partition busbar area/ connection area (only NZM) Section depth 800 mm, for EVEN coupling section Article No. per unit unit = 1 pc.
425	NZM4-3P	F					**XPNBCB0402** 289174	**XPNBCB0404** 289176
	NZM4-3P	F	x				**XPNBCB0402** 289174	**XPNBCB0404** 289176
	NZM4-3P	F		x			**XPNBCB0402** 289174	**XPNBCB0404** 289176
	NZM4-3P	F			x		**XPNBCB0402** 289174	**XPNBCB0404** 289176
	NZM4-3P	F				x	**XPNBCB0402** 289174	**XPNBCB0404** 289176
	NZM4-3P	E					**XPNBCB0402** 289174	**XPNBCB0404** 289176
	NZM4-3P	E	x				**XPNBCB0402** 289174	**XPNBCB0404** 289176
600	NZM4-3P	F					**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-4P, 3P+N	F					**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-3P	F	x				**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-4P, 3P+N	F	x				**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-3P	F		x			**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-4P, 3P+N	F		x			**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-3P	F			x		**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-4P, 3P+N	F			x		**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-4P, 3P+N	F				x	**XPNBCB0602** 289175	**XPNBCB0604** 289177

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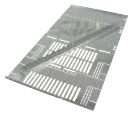

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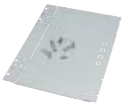

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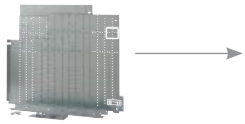
vt35315



Partition between incoming copper and connection copper on main busbar with NZM Form 4 for EVEN only	Partition switchgear area/ busbar area (mounting plate) Form 2/4	Mounting plate partition switchgear/main bus-bar swivel-mounted	Partition switchgear top/bottom	Partition connection area D600	Partition connection area D800	Central universal mounting plate incoming area D600	Central universal mounting plate incoming area D800
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XPNBCB-E-04 121448	**XPBMB0604** 284107	**XPBMB0604-ROT** 112312	**XPN4F-MCB04** 178597	**XPNBCB-2-0406** 178630	**XPNBCB-2-0408** 178632	-	-
XPNBCB-E-04 121448	**XPBMB0604** 284107	**XPBMB0604-ROT** 112312	**XPN4F-R-MCB04** 178600	**XPNBCB-2-0406** 178630	**XPNBCB-2-0408** 178632	-	-
XPNBCB-E-04 121448	**XPBMB0604** 284107	**XPBMB0604-ROT** 112312	**XPN4F-DV-MCB04** 178599	**XPNBCB-2-0406** 178630	**XPNBCB-2-0408** 178632	-	-
XPNBCB-E-04 121448	**XPBMB0604** 284107	**XPBMB0604-ROT** 112312	**XPN4F-D-MCB04** 178598	**XPNBCB-2-0406** 178630	**XPNBCB-2-0408** 178632	-	-
XPNBCB-E-04 121448	**XPBMB0604** 284107	**XPBMB0604-ROT** 112312	**XPN4F-R-MCB04** 178600	**XPNBCB-2-0406** 178630	**XPNBCB-2-0408** 178632	-	-
XPNBCB-E-04 121448	**XPBMB0604** 284107	**XPBMB0604-ROT** 112312	**XPN4W-MCB04** 178601	**XPNW-R-BCB-2-0406** 178629	**XPNBCB-2-0408** 178632	-	-
XPNBCB-E-04 121448	**XPBMB0604** 284107	**XPBMB0604-ROT** 112312	**XPN4W-R-MCB04** 178602	**XPNW-R-BCB-2-0406** 178629	**XPNBCB-2-0408** 178632	-	-
XPNBCB-E-06 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPN4F-MCB06** 178603	**XPNBCB-2-0606** 178634	**XPNBCB-2-0608** 178636	-	-
XPNBCB-E-06 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	-	**XPNBCB-2-0606** 178634	**XPNBCB-2-0608** 178636	-	-
XPNBCB-E-06 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPN4F-R-MCB06** 178606	**XPNBCB-2-0606** 178634	**XPNBCB-2-0608** 178636	-	-
XPNBCB-E-06 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	-	**XPNBCB-2-0606** 178634	**XPNBCB-2-0608** 178636	-	-
XPNBCB-E-06 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPN4F-DV-MCB06** 178605	**XPNBCB-2-0606** 178634	**XPNBCB-2-0608** 178636	-	-
XPNBCB-E-06 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	-	**XPNBCB-2-0606** 178634	**XPNBCB-2-0608** 178636	-	-
XPNBCB-E-06 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPN4F-D-MCB06** 178604	**XPNBCB-2-0606** 178634	**XPNBCB-2-0608** 178636	-	-
XPNBCB-E-06 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	-	**XPNBCB-2-0606** 178634	**XPNBCB-2-0608** 178636	-	-
XPNBCB-E-06 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPN4F-R-MCB06** 178606	**XPNBCB-2-0606** 178634	**XPNBCB-2-0608** 178636	-	-

Partitions NZM4 Form 4 (continued)

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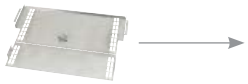

Section width mm	Poles	Installation Typ F = fixed E = withdrawable	Remote operation	Fixed installation with mechanical lock	Fixed installation with rotary handle	Fixed installation with door coupling handle	Partition busbar area/ connection area (only NZM) Section depth 600 mm, for EVEN coupling section Article No. per unit unit = 1 pc.	Partition busbar area/ connection area (only NZM) Section depth 800 mm, for EVEN coupling section Article No. per unit unit = 1 pc.
600	NZM4-3P	E					**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-4P, 3P+N	E					**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-3P	E	x				**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-4P, 3P+N	E	x				**XPNBCB0602** 289175	**XPNBCB0604** 289177
	2xNZM4-3P	F					**XPNBCB0602** 289175	**XPNBCB0604** 289177
	2xNZM4-3P	F	x				**XPNBCB0602** 289175	**XPNBCB0604** 289177
	2xNZM4-3P	F		x			**XPNBCB0602** 289175	**XPNBCB0604** 289177
	2xNZM4-3P	F			x		**XPNBCB0602** 289175	**XPNBCB0604** 289177
	2xNZM4-3P	F				x	**XPNBCB0602** 289175	**XPNBCB0604** 289177
800	NZM4-4P, 3P+N	F					**XPNBCB0802** 118735	**XPNBCB0804** 118736
	NZM4-4P, 3P+N	F	x				**XPNBCB0802** 118735	**XPNBCB0804** 118736
	NZM4-4P, 3P+N	F		x			**XPNBCB0802** 118735	**XPNBCB0804** 118736
	NZM4-4P, 3P+N	F			x		**XPNBCB0802** 118735	**XPNBCB0804** 118736
	NZM4-4P, 3P+N	F				x	**XPNBCB0802** 118735	**XPNBCB0804** 118736
	NZM4-4P, 3P+N	E					**XPNBCB0802** 118735	**XPNBCB0804** 118736
	NZM4-4P, 3P+N	E	x				**XPNBCB0802** 118735	**XPNBCB0804** 118736

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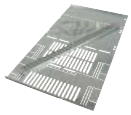

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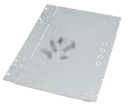

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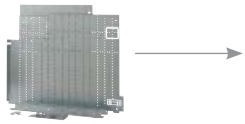
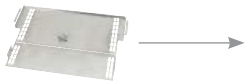
vt35315



Partition between incoming copper and connection copper on main busbar with NZM Form 4 for EVEN only	Partition switchgear area/ busbar area (mounting plate) Form 2/4	Mounting plate partition switchgear/main bus-bar swivel-mounted	Partition switchgear top/bottom	Partition connection area D600	Partition connection area D800	Central universal mounting plate incoming area D600	Central universal mounting plate incoming area D800
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XPNBCB-E-06 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPN4W-MCB06** 178607	**XPNW-R-BCB-2-0606** 178633	**XPNW-R-BCB-2-0608** 178635	-	-
XPNBCB-E-06 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	-	**XPNW-R-BCB-2-0606** 178633	**XPNW-R-BCB-2-0608** 178635	-	-
XPNBCB-E-06 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPN4W-R-MCB06** 178645	**XPNW-R-BCB-2-0606** 178633	**XPNW-R-BCB-2-0608** 178635	-	-
XPNBCB-E-06 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	-	**XPNW-R-BCB-2-0606** 178633	**XPNW-R-BCB-2-0608** 178635	-	-
XPNBCB-E-06 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XP2N4F-MCB06** 178610	**XPNBCB-2-0606** 178634	**XPNBCB-2-0608** 178636	**XPNCCB06** 178625	**XPNCCB08** 178626
XPNBCB-E-06 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XP2N4F-R-MCB06** 178613	**XPNBCB-2-0606** 178634	**XPNBCB-2-0608** 178636	**XPNCCB06** 178625	**XPNCCB08** 178626
XPNBCB-E-06 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XP2N4F-DV-MCB06** 178612	**XPNBCB-2-0606** 178634	**XPNBCB-2-0608** 178636	**XPNCCB06** 178625	**XPNCCB08** 178626
XPNBCB-E-06 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XP2N4F-D-MCB06** 178611	**XPNBCB-2-0606** 178634	**XPNBCB-2-0608** 178636	**XPNCCB06** 178625	**XPNCCB08** 178626
XPNBCB-E-06 121449	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XP2N4F-R-MCB06** 178613	**XPNBCB-2-0606** 178634	**XPNBCB-2-0608** 178636	**XPNCCB06** 178625	**XPNCCB08** 178626
XPNBCB-E-08 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPN4F-MCB08** 178646	**XPNBCB-2-0806** 178638	**XPNBCB-2-0808** 178640	-	-
XPNBCB-E-08 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPN4F-R-MCB08** 178649	**XPNBCB-2-0806** 178638	**XPNBCB-2-0808** 178640	-	-
XPNBCB-E-08 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPN4F-DV-MCB08** 178648	**XPNBCB-2-0806** 178638	**XPNBCB-2-0808** 178640	-	-
XPNBCB-E-08 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPN4F-D-MCB08** 178647	**XPNBCB-2-0806** 178638	**XPNBCB-2-0808** 178640	-	-
XPNBCB-E-08 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPN4F-R-MCB08** 178649	**XPNBCB-2-0806** 178638	**XPNBCB-2-0808** 178640	-	-
XPNBCB-E-08 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPN4W-MCB08** 178608	**XPNW-R-BCB-2-0808** 178639	**XPNW-R-BCB-2-0808** 178639	-	-
XPNBCB-E-08 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPN4W-R-MCB08** 178609	**XPNW-R-BCB-2-0808** 178639	**XPNW-R-BCB-2-0808** 178639	-	-

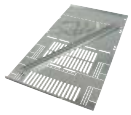
Partitions NZM4 Form 4 (continued)

wa_vt70913

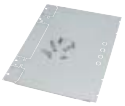


Section width mm	Poles	Installation Typ F = fixed E = withdrawable	Remote operation	fixed with mechanical lock	Fixed installation with rotary handle	Fixed installation with door coupling handle	Partition busbar area/ connection area (only NZM) Section depth 600 mm, for EVEN coupling section Article No. per unit unit = 1 pc.	Partition busbar area/ connection area (only NZM) Section depth 800 mm, for EVEN coupling section Article No. per unit unit = 1 pc.
800	2xNZM4-4P, 3P+N	F					**XPNBCB0802** 118735	**XPNBCB0804** 118736
	2xNZM4-4P, 3P+N	F	x				**XPNBCB0802** 118735	**XPNBCB0804** 118736
	2xNZM4-4P, 3P+N	F		x			**XPNBCB0802** 118735	**XPNBCB0804** 118736
	2xNZM4-4P, 3P+N	F			x		**XPNBCB0802** 118735	**XPNBCB0804** 118736
	2xNZM4-4P, 3P+N	F				x	**XPNBCB0802** 118735	**XPNBCB0804** 118736
	2xNZM4-3P	E					**XPNBCB0802** 118735	**XPNBCB0804** 118736
	2xNZM4-3P	E	x				**XPNBCB0802** 118735	**XPNBCB0804** 118736
1000	2xNZM4-4P, 3P+N	E					**XPNBCB1002** 178623	**XPNBCB1004** 178624
	2xNZM4-4P, 3P+N	E	x				**XPNBCB1002** 178623	**XPNBCB1004** 178624

wa_vt72013



wa_vt34313



wa_vt62813



vt36615



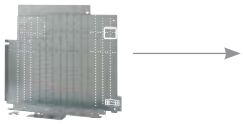
vt39715



vt39815



vt35315



Partition between incoming copper and connection copper on main busbar with NZM Form 4 for EVEN only	Partition switchgear area/ busbar area (mounting plate) Form 2/4	Mounting plate partition switchgear/main bus-bar swivel-mounted	Partition switchgear top/bottom	Partition connection area D600	Partition connection area D800	Central universal mounting plate incoming area D600	Central universal mounting plate incoming area D800
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XPNBCB-E-08 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XP2N4F-MCB08** 178614	**XPNBCB-2-0806** 178638	**XPNBCB-2-0808** 178640	**XPNCCB06** 178625	**XPNCCB08** 178626
XPNBCB-E-08 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XP2N4F-R-MCB08** 178617	**XPNBCB-2-0806** 178638	**XPNBCB-2-0808** 178640	**XPNCCB06** 178625	**XPNCCB08** 178626
XPNBCB-E-08 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XP2N4F-DV-MCB08** 178616	**XPNBCB-2-0806** 178638	**XPNBCB-2-0808** 178640	**XPNCCB06** 178625	**XPNCCB08** 178626
XPNBCB-E-08 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XP2N4F-D-MCB08** 178615	**XPNBCB-2-0806** 178638	**XPNBCB-2-0808** 178640	**XPNCCB06** 178625	**XPNCCB08** 178626
XPNBCB-E-08 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XP2N4F-R-MCB08** 178617	**XPNBCB-2-0806** 178638	**XPNBCB-2-0808** 178640	**XPNCCB06** 178625	**XPNCCB08** 178626
XPNBCB-E-08 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XP2N4W-MCB08** 178618	**XPNW-R-BCB-2-0808** 178639	**XPNW-R-BCB-2-0808** 178639	**XPNW-R-CCB06** 178627	**XPNW-R-CCB08** 178628
XPNBCB-E-08 121450	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XP2N4W-R-MCB08** 178619	**XPNW-R-BCB-2-0808** 178639	**XPNW-R-BCB-2-0808** 178639	**XPNW-R-CCB06** 178627	**XPNW-R-CCB08** 178628
XPNBCB-E-10 121451	**XPBMB0610** 102949	**XPBMB0610-ROT** 112315	**XP2N4W-MCB10** 178620	**XPNW-R-BCB-2-1006** 178641	**XPNW-R-BCB-2-1008** 178643	**XPNW-R-CCB06** 178627	**XPNW-R-CCB08** 178628
XPNBCB-E-10 121451	**XPBMB0610** 102949	**XPBMB0610-ROT** 112315	**XP2N4W-R-MCB10** 178621	**XPNW-R-BCB-2-1006** 178641	**XPNW-R-BCB-2-1008** 178643	**XPNW-R-CCB06** 178627	**XPNW-R-CCB08** 178628

Notes

xEnergy Main Switchboards

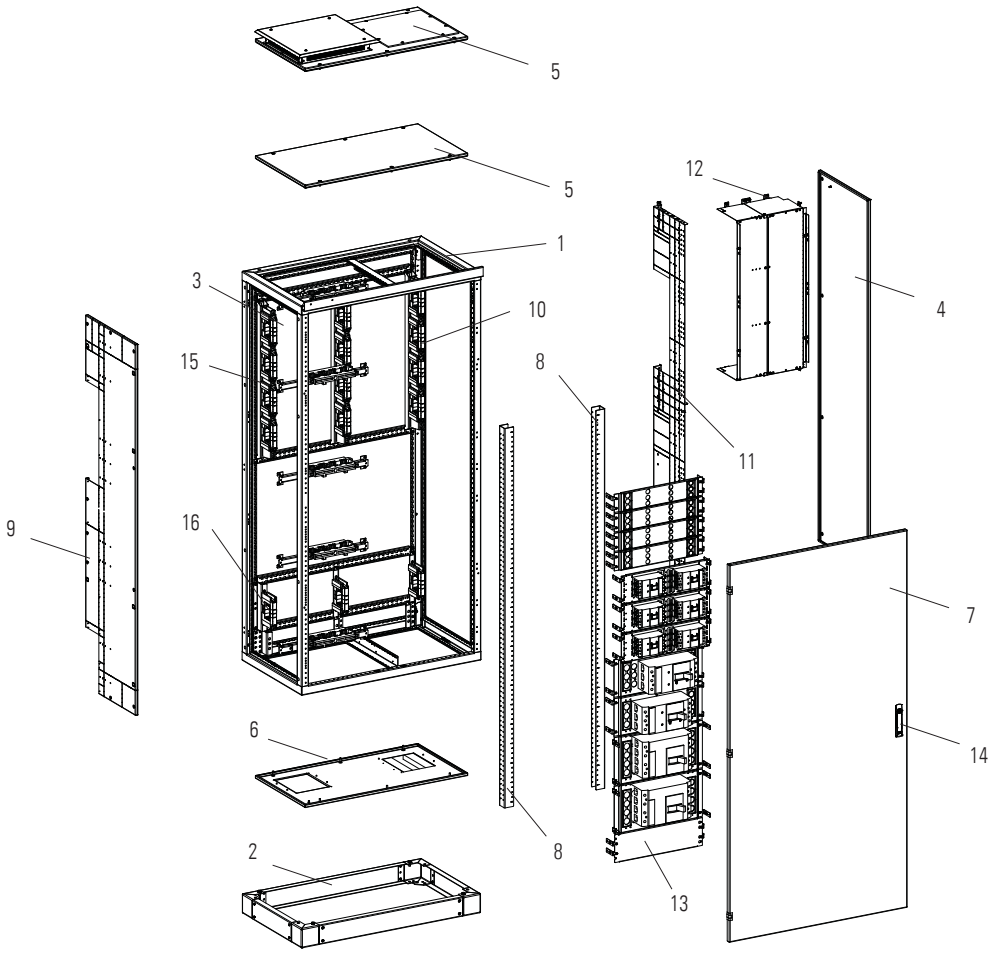
Table of Contents

XF = Outgoing sections - fixed design

- Outgoing section in Form 2 ..... Page xx
- Outgoing section in Form 4 ..... Page xx
- Outgoing section - Box Solution, Motor Control Centers in fixed design ..... Page xx
- Outgoing sections for fuse strips with dropper bar across two sections ..... Page xx

Description

2b-Exploded_View



1 Frame
2 Plinth
3 Rear panel
4 Side panel
5 Top panel
6 Bottom panel
7 Door
8 Ftting kit for outgoers with circuit breaker
9 Separation panel between section/section
10 Main busbar support
11 Partition connection area/dropper bar area
12 Partition main busbar area/cable connection area
13 Mounting plates
14 Lock mechanism
15 Angle bracket for N and PEN dropper bar
16 Support for dropper bar

Features

- Widths of 800/1000/1200 mm
- Module widths of 425, 600 and 800 mm
- 3, 4 or 3P+N poles
- Form 2
- IP31/IP42/IP55
- BF-modules only in IP31
- Single - BF-modules have a cable outlet on the right side, a mirrored configuration is not possible.
- With Double Modules a Cable Box must be queued to the left
- Circuit breaker suitable for plug base - NZM3 with plug base ... in sections 800 mm deep
- Suitable for switchgear with remote operation
- Separate doors for switchgear area and connection area
- Transparent doors are available (glass doors)
- Dropper bars from 800 to 1600 A
- Separate setup in 2 separate sections of switchgear area and cable connection area is possible e.g. 600 mm / 600 mm

Notes

Frame comes with a blue design strip.
Doors include locking system for 3 mm two-way key bit.
Where cover plates in several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
The maximum height available for the installation of mounting plates is 1900 mm.
For flanges, clip-down handle, lifting eyebolts, 180° hinges, fixing brackets, Durostone posts, connection kits, pockets for circuit diagrams and other accessories, please refer to chapter “General Accessories”.

xEnergy Main Switchboards

Outgoing section in Form 2, Main Busbars rear-mounted (HSS)

VT18410



Section depth mm	Section width mm	Module width mm	Connection area width mm
600	600	425	200
	800	425	400
	800	600	200
	1000	600	400
800	600	425	200
	800	425	400
	800	600	200
	1000	600	400

VT19909



Fitting kit for outgoers with circuit breaker

Article No. per unit

wa_vt68213



Mounting plate

Article No. per unit

VT25109



Separation partition connection/dropper bar

Article No. per unit

wa_vt71913



Partition connection area/main bus bar

Article No. per unit

wa_vt58813



Support for dropper busbar

Article No. per unit

wa_vt59013



Extension bracket

Article No. per unit

wa_vt69913



Angle bracket for PE or PEN in connection area

Article No. per unit

wa_vt70013



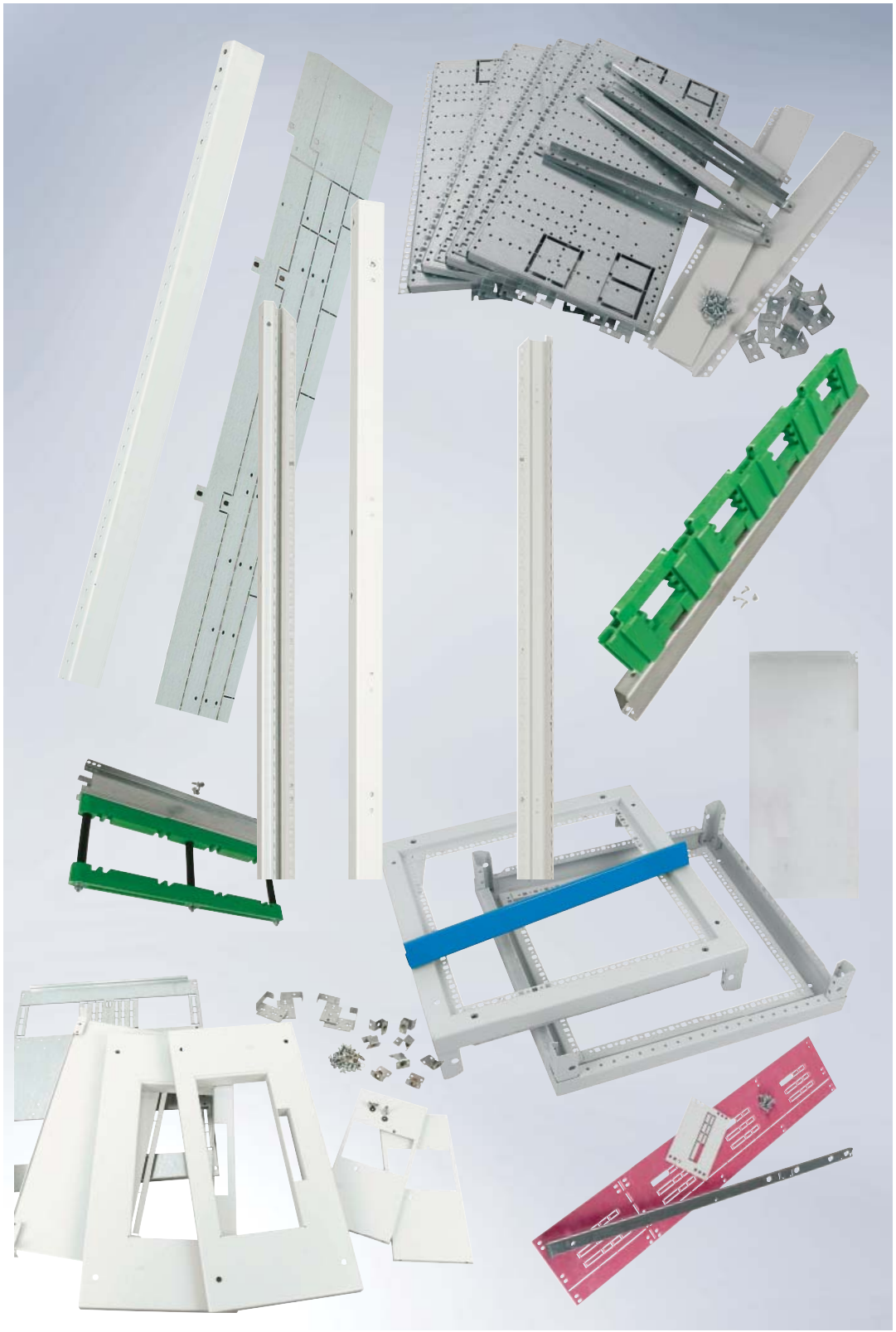
Angle bracket for N+PEN in connection area

Article No. per unit

XSMFIB0606 284253	see page xx	**XPFCD2006** 284132	**XPFCB02** 284745	see page xx	**XDB06** 283885	**XDSFP** 283895	**XDSFN** 283894
XSMFIB0606 284253	see page xx	**XPFCD2006** 284132	**XPFCB04** 284119	see page xx	**XDB06** 283885	**XDSFP** 283895	**XDSFN** 283894
XSMFIB0606 284253	see page xx	**XPFCD2006** 284132	**XPFCB02** 284745	see page xx	**XDB06** 283885	**XDSFP** 283895	**XDSFN** 283894
XSMFIB0606 284253	see page xx	**XPFCD2006** 284132	**XPFCB04** 284119	see page xx	**XDB06** 283885	**XDSFP** 283895	**XDSFN** 283894
XSMFIB0608 284254	see page xx	**XPFCD2008** 284133	**XPFCB02** 284745	see page xx	**XDB06** 283885	**XDSFP** 283895	**XDSFN** 283894
XSMFIB0608 284254	see page xx	**XPFCD2008** 284133	**XPFCB04** 284119	see page xx	**XDB06** 283885	**XDSFP** 283895	**XDSFN** 283894
XSMFIB0608 284254	see page xx	**XPFCD2008** 284133	**XPFCB02** 284745	see page xx	**XDB06** 283885	**XDSFP** 283895	**XDSFN** 283894
XSMFIB0608 284254	see page xx	**XPFCD2008** 284133	**XPFCB04** 284119	see page xx	**XDB06** 283885	**XDSFP** 283895	**XDSFN** 283894

Note * Finish in special RAL colour

Components Outgoing Section in Form 2



Accessories

Fitting kits for outgoing sections Form 2

VT19909



Section depth mm	Fitting kits for MCB outgoing sections Form 2 Article No. per unit
600	**XSMFIB0606** 284253
800	**XSMFIB0608** 284254

Accessories for outgoing sections Form 2: Partitions for internal separation

VT25109



Section depth mm	Form 2/4 Partition connection area/dropper bar area Article No. per unit unit = 1 set
600	**XPFCD2006** 284132
800	**XPFCD2008** 284133

Section width mm	Form 2/4 Connection area/dropper bar area in the widths of 200/400/600 Article No. per unit unit = 1 set
800	**XPFCB02** 284745
1000	**XPFCB04** 284119
1200	**XPFCB06** 284746

Dropper Bars up to 1600 A for Outgoing Sections, Fitting Kits

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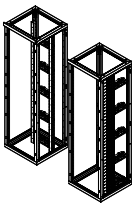


Features:
- 800 – 1600 A
- TN-C, TN-C-S, TN-S, IT, TT
- I_{cw} (1 s) up to 50 kA[1)]

wa_vt58813



wa_vt58913



Angle bracket for N and PEN in the cable connection area

wa_vt69913



wa_vt70013



I_e A	Busbar cross-sections L1, L2, L3, full N mm²	PE, PEN mm²	Type of Busbar support 3 poles L1, L2, L3, or 4 poles L1, L2, L3, N Article No. per unit	Type of Busbar support End support at the bottom Article No. per unit	Type of Support for conductor in connection area[1)] PE or PEN Article No. per unit	Type of Support for conductor in connection area[1)] N+PEN Article No. per unit
Dropper bars on the side, center-to-center phase distance 60 mm						
800	2 x 20 x 10	1 x 20 x 10	**XDSF08** 283888	**XDSF08E** 283889	**XDSFP** 283895	**XDSFN** 283894
1250	2 x 40 x 10	1 x 40 x 10	**XDSF12** 283890	**XDSF12E** 283891	**XDSFP** 283895	**XDSFN** 283894
1600	2 x 60 x 10	1 x 60 x 10	**XDSF16** 283892	**XDSF16E** 283893	**XDSFP** 283895	**XDSFN** 283894

Extension bracket

wa_vt59013



VT00412



Module width mm	Type of Extension bracket for busbar support XDSF... for rear-mounted dropper bars Article No. per unit	Type of Extension bracket for busbar support (strong design for lowest position) Article No. per unit
425	**not required**	-
600	**XDB06** 283885	**XADB06E** 166745
800	**XDB08** 192696	**XADB08E** 192697

Note [1)] Also suitable for mounting cable ducts, auxiliary busbars etc.

Accessories for Outgoing Sections

Mounting Plates for FAZ

wa_vt68413 wa_vt55013 wa_vt71413





Width mm	UK	min. H = 150 mm 1 row	min. H = 200 mm 1 row	min. H = 300 mm 2 rows	min. H = 400 mm 2 rows
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	-	**XMMC0604M** 283980	**XMMC0804M** 283984	**XMMC1204M** 283988	**XMMC1604M** 283992
600	**XMPL10606M-UK** 110254	**XMMC0606M** 283982	**XMMC0806M** 283986	**XMMC1206M** 283990	**XMMC1606M** 283994
800	-	**XMMC0608M** 106736	**XMMC0808M** 106737	-	-
1000	-	**XMMC0610M** 106738	**XMMC0810M** 106739	-	-

Mounting Plates for PKZ

wa_vt68313 wa_vt68113




Width mm	horizontal 3 poles H = 50 mm	horizontal 3 poles H = 100 mm
	Article No. per unit	Article No. per unit
425	**XMP030204M** 284088	**XMP430404M** 284096
600	**XMP030206M** 284090	**XMP430406M** 284098

Accessories for Outgoing Sections

Mounting Plates for NZM1

wa_vt68013 wa_vt68113




Width mm	UK 1x NZM1 horizontal 4 poles H = 150 mm fixed Article No. per unit	1x NZM1 horizontal 3 poles H = 100 mm fixed Article No. per unit	1x NZM1 horizontal 4 poles H = 150 mm fixed Article No. per unit	1x NZM1 horizontal 3 poles H = 150 mm plug-in module technology Article No. per unit	2x NZM1 vertical 3 poles H = 300 mm fixed Article No. per unit	3x NZM1 vertical 3 poles H = 300 mm fixed Article No. per unit	2x NZM1 vertical 4 poles H = 300 mm fixed Article No. per unit	3x NZM1 vertical 4 poles H = 300 mm fixed Article No. per unit
425	-	**XMN130404M** 283996	**XMN140604M** 284004	**XMN130604MP** 121798	**XMN131204MV** 284000	-	**XMN141204MV** 284008	-
600	**XMN140606M-UK** 110255	**XMN130406M** 283998	**XMN140606M** 284006	**XMN130606MP** 121796	-	**XMN131206MV** 284002	-	**XMN141206MV** 284010

Mounting Plates for NZM2

wa_vt54913

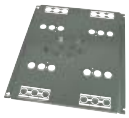


Width mm	UK 1x NZM2 horizontal 4 poles H = 200 mm fixed Article No. per unit	1x NZM2 horizontal 3 poles H = 150 mm fixed Article No. per unit	1x NZM2 horizontal 3 poles H = 150 mm plug-in module technology Article No. per unit	1x NZM2 horizontal 3 poles H = 150 mm with motorlift (sticking 15 mm out of front panel) Article No. per unit	1x NZM2 horizontal 4 poles H = 200 mm fixed Article No. per unit	1x NZM2 horizontal 4 poles H = 200 mm plug-in technology Article No. per unit	1x NZM2 horizontal 4 poles H = 200 mm cover for RCD module fixed Article No. per unit	2x NZM2 vertical 3 poles H = 400 mm fixed Article No. per unit
425	-	**XMN230604M** 284012	-	-	**XMN240804M** 284025	-	-	**XMN231604MV** 284016
600	**XMN240606M-UK** 110256	**XMN230606M** 284014	**XMN230606MP** 284724	**XMN230606M** 284014	**XMN240806M** 284027	**XMN240806MP** 284726	**XMN240806MF** 134485	-

Accessories for Outgoing Sections

Mounting Plates for NZM2 (several devices on one plate)

wa_vt73113



Width mm	3x NZM2 vertical 3 poles H = 400 mm fixed Article No. per unit	2x NZM2 vertical 3 poles H = 600 mm plug-in module technology Article No. per unit	3x NZM2 vertical 3 poles H = 600 mm plug-in technology Article No. per unit	1x NZM2 vertical 4 poles H = 400 mm fixed Article No. per unit	1x NZM2 vertical 4 poles H = 600 mm plug-in technology Article No. per unit	2x NZM2 vertical 4 poles H = 400 mm fixed Article No. per unit	2x NZM2 vertical 4 poles H = 600 mm plug-in technology Article No. per unit
425	-	**XMN232404MV** 284020	-	**XMN241604MV** 284029	**XMN242404MV** 284033	-	-
600	**XMN231606MV** 284018	-	**XMN232406MV** 284022	-	-	**XMN241606MV** 284031	**XMN242406MV** 284035

Mounting Plates for NZM3

wa_vt72913



Width mm	UK 1x NZM3 horizontal 4 poles H = 250 mm fixed Article No. per unit	1x NZM3 horizontal 3 poles H = 200 mm fixed Article No. per unit	1x NZM3 horizontal 3 poles H = 250 mm fixed Article No. per unit	1x NZM3 horizontal 4 poles H = 250 mm fixed Article No. per unit	1x NZM3 horizontal 4 poles H = 300 mm fixed Article No. per unit	1x NZM3 vertical 3 poles H = 600 mm fixed Article No. per unit	2x NZM3 vertical 3 poles H = 600 mm fixed Article No. per unit	1x NZM3 vertical 3 poles H = 600 mm withdrawable Article No. per unit
425	-	-	-	-	-	**XMN332404MV** 284046	-	**XMN332404MV** 284046
600	**XMN340606M-UK** 110257	**XMN330806M** 284038	**XMN331006M** 284041	**XMN341006M** 284054	**XMN341206M** 284057	-	**XMN332406MV** 284051	**XMN332406MV** 284051

Accessories for Outgoing Sections

Mounting Plates for NZM3 (continued)

wa_vt72913



Width mm	1x NZM3 vertical 4 poles H = 600 mm fixed Article No. per unit	1x NZM3 vertical 4 poles H = 600 mm withdrawable Article No. per unit	1x NZM3 horizontal 3 poles H = 200 mm with motor lift, motor lift sticks 55 mm through front panel, no turning possible, fixed Article No. per unit	1x NZM3 horizontal 4 poles H = 250 mm with motor lift, motor lift sticks 55 mm through front panel, no turning possible, fixed Article No. per unit
425	**XMN342404MV** 284062	**XMN342404MV** 284062	-	-
600	**XMN342406MV** 284067	**XMN342406MV** 284067	**XMN330806M** 284038	**XMN341006M** 284054

Mounting plates

BF-Module (Britisch Standard)

- 800 – 1600 A
- BF-Modules are only available in IP31
- Outgoing cable area is always on the right
- Size 1-3 of the NZM series is suitable for both the fi xed and the plug-in design
- Option to install a neutral conductor (3P+N)
- 3 or 4 poles, or 3P+N possible
- Comes with all the installation holes necessary for fixed, plug-in option or withdrawable (NZM3)
- Includes all fixing brackets and screws
- All MCCBs are mounted horizontally with the exception of the NZM3 mounted in a 425 wide module, where the NZM3 is mounted vertically

vt25117



	MCCB frame size NZM1		MCCB frame size NZM2		MCCB frame size NZM3 up to 400 A	MCCB frame size NZM3 up to 630 A			MCCB frame size NZM4
	Module height 150 mm	Module height 200 mm	Module height 200 mm	Module height 300 mm	Module height 250 mm	Module height 350 mm	Module height 500 mm	Module height 600 mm	Module height 450 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
Module width 600 Single module	-	-	**XMN240806-BF** 192711	-	**XMN341006-400-BF** 192715	**XMN341406-630-BF** 192717	-	-	-
Module width 600 Double module	**XMN140606-BF-2** 192709	-	**XMN240806-BF-2** 192713	-	-	-	-	-	-
Module width 800 Single module	-	-	**XMN240808-BF** 192712	-	**XMN341008-400-BF** 192716	**XMN341408-630-BF** 192718	-	-	**XMN441808-630-BF** 192719
Module width 800 Double module	**XMN140608-BF-2** 192710	-	**XMN240808-BF-2** 192714	-	-	-	-	-	-

Mounting plates

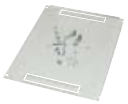
- Includes fastening material (screws and fastening brackets)

wa_vt33513



Module height mm	Width 425 mm Article No. per unit	Width 600 mm Article No. per unit	Width 800 mm Article No. per unit
50	**XME0204M** 283923	**XME0206M** 283925	-
100	**XME0404M** 283929	**XME0406M** 283933	**XME0408M** 285689
150	**XME0604M** 284727	**XME0606M** 284728	**XME0608M** 285690
200	**XME0804M** 283941	**XME0806M** 283945	**XME0808M** 285691
250	**XME1004M** 144585	**XME1006M** 144586	**XME1208M** 171728
300	**XME1204M** 285684	**XME1206M** 285686	**XME1208M** 285692
350	**XME1404M-1** 110333	**XME1406M** 171724	**XME1408M** 171729
400	**XME1604M** 283949	**XME1606M** 283951	**XME1608M** 285693
500	**XME2004M-1** 110331	**XME2006M** 171725	**XME2008M** 171730
600	**XME2404M** 285685	**XME2406M** 285687	**XME2408M** 285694
800	-	**XME3206M** 126010	**XME3208M** 171731
1000	-	**XME4006M** 171726	**XME4008M** 171732
1200	-	**XME4806M** 171727	**XME4808M** 171733
1400	-	-	-
1600	-	-	-

Mounting Plates for XNH (disconnector)

	wa_vt68813	wa_vt70613	wa_vt70413	wa_vt70313
				
Width mm	For 3 units of XNH00 or 1x XNH3 H = 300 mm	For 2 units of XNH1 H = 400 mm	For 1 unit of XNH2 H = 400 mm	For 1 unit of XNH3 H = 600 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
600	**XMG031206MV** 283952	**XMG131606MV** 283953	**XMG231606MV** 283954	**XMG332406M** 114834

Accessories

Protective covers for feeder copper

- Serve as partition between the feeder coppers that lead from the main busbar to the switch
- Includes screws

vt25917



MCCB Frame size	Single module Article No. per unit	Double module Article No. per unit
NZM1	**XPFMC1-S** 192671	**XPFMC1-2** 192672
NZM2	**XPFMC2-S** 192673	**XPFMC2-2** 192674
NZM3	**XPFMC3-S** 192675	-
NZM4	**XPFMC4-S** 192677	-

Cover for neutral-conductor version

- Finger-safe protective cover for the neutral-conductor version
- Suitable for single and double modules
- Double modules require two protective covers each
- Includes screws

vt25717



MCCB Frame size	Cover for neutral-conductor version Article No. per unit
NZM1	**XDN-NZM1-BF-S** 192678
NZM2	**XDN-NZM2-BF-S** 192676
NZM3	**XDN-NZM3-BF-S** 192681
NZM4	**XDN-NZM4-BF-S** 192682

End caps for neutral-conductor version

- The end cap also covers the terminal point
- Not required for type 6/7 set-up

vt25617



MCCB Frame size	End caps for neutral-conductor version Article No. per unit
NZM1	**XDN-NZM1-BF-E** 192683
NZM2	**XDN-NZM2-BF-E** 192684
NZM3	**XDN-NZM1-BF-E** 192685

Copper connection piece

- Facilitates the connection of the Cu-bars/cables
- For NZM3 = connection enlargement/sub-sections

MCCB Frame size	Incoming side dropper bar Article No. per unit	Outgoing side cable connection Article No. per unit
NZM1	**XNNC-NZM1-I** 192691	**XNNC-NZM1-O** 192693
NZM2	**XNNC-NZM2-I** 192692	**XNNC-NZM2-O** 192694
NZM3 up to 630 A	-	**XNNC-NZM3-O** 192695

Accessories

Cover panels for module cable entry

- Can be used instead of closing strips (XPFMC/284146)
- Cover plates of 150-450 mm height are available; larger modules require the combination of two or more cover plates
- Double modules require two cover plates, one each for left and right

vt25517



Module height mm	Cover panels for module cable entry Article No. per unit
150	**XPCS06** 192666
200	**XPCS08** 192667
250	**XPCS10** 192668
350	**XPCS14** 192669
400	**XPCS18** 192670

Partition/cover for type 6/7 set-up

- Creates an additional termination area that is separated from all other functional areas in the module
- Suitable for single and double modules
- Double modules require two protective covers each
- Includes screws

vt25417



MCCB Frame size	Partition/cover for type 6/7 set-up Article No. per unit
NZM1	**XPCMCV1** 192686
NZM2	**XPCMCV2** 192687
NZM3 up to 400 A	**XPCMCV3-400** 192688
NZM3 up to 630 A	**XPCMCV3-630** 192689
NZM4	**XPCMCV3** 192690

Distance Angle for Double Modules

- Distance Angles are required to each BF-Double Module

MCCB Frame size	Distance Angle for Double Modules Article No. per unit
NZM1	**XNBW-NZM1** 192854
NZM2	**XNBW-NZM2** 192855

Accessories for 5000 A application with a section depth of 1000 mm

Accessories for Outgoing Sections: Continuous Mounting Plate/Partition for Cable Connection Area in an Outgoing Section

For fixing terminals/contact blocks in the cable connection area; it also serves as a partition between cable connection area and main busbar area. For outgoing sections in a 5000 A system (with an additional main busbar area) using this type of partitions is compulsory.

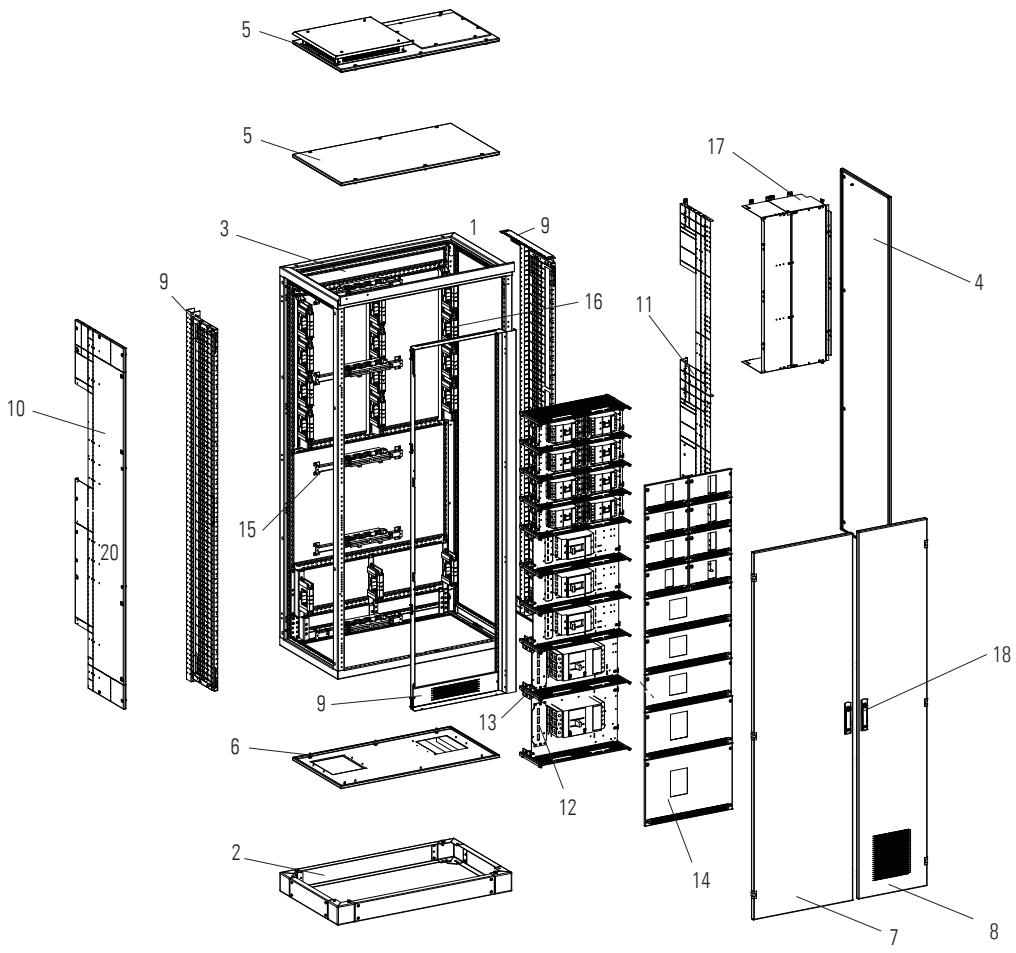
VT01611



Section width mm	Switchgear area width mm	Cable connecting area width mm	NZM outgoing sections Form 2/4 Article No. per unit unit = 1 set
600	425	172	**XPFBCB172** 158606
800	425	372	**XPFBCB372** 158607
	600	197	**XPFBCB197** 158608
1000	600	397	**XPFBCB397** 158609
1200	600	597	**XPFBCB597** 158610

Description

4b-Exploded_View



1 Frame
2 Plinth
3 Rear panel
4 Side panel
5 Top panel
6 Bottom panel
7 Door to switchgear area
8 Door to connection area
9 Ftting kit for outgoers with circuit breaker
10 Separation panel between section/section
11 Separation panel dropper bar area/connection area
12 Mounting plates
13 Separation switchgear area/switchgear area
14 Front plates
15 Support for dropper bar
16 Support for main busbar
17 Partition main busbar area/connection area
18 Lock mechanism

Features

- Widths of 800/1000/1200 mm
- Module widths of 425, 600 and 800 mm
- 3-, 4-poles or 3P+N
- Form 4 / Type 7
- IP31/IP55
- Circuit breaker can be used with plug base
- Suitable for circuit breaker with remote operation (not for BF-modules)
- Doors to switchgear area and connection area
- Transparent doors are possible (glass; for switchgear area)
- Dropper bar from 800 to 1600 A
- Separate setup in 2 separate sections of switchgear area and cable connection area is possible, e.g. 600 mm / 600 mm

Notes

Frame comes with a blue design strip.
Doors include locking system for 3 mm two-way key bit.
Where cover plates in several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
In order to allow the air to circulate in IP31, you need to start the device section with a ventilated front panel. This is included in the scope of delivery of the kit.
The maximum height available for the installation of mounting plates is 1800 mm in IP 31 and 1900 mm in IP51.
For flanges, clip-down handle, lifting eyebolts, 180° hinges, fixing brackets, Durostone posts, connection kits, pockets for circuit diagrams and other accessories, please refer to chapter “General Accessories”.

xEnergy Main Switchboards

Outgoing Section/Fixed installation in Form 4, Main Busbars rear-mounted (HSS), Section depth 600 mm

wa_vt77013



Section depth mm	Section width mm	Module width mm	Connection area width mm
600	425	425	0
	600	600	0
	800	425	400
		600	200
	1000	600	400
	1200	600	600

Outgoing Section/Fixed installation in Form 4, Main Busbars rear-mounted (HSS), Section depth 600 mm

VT19809	wa_vt57913	wa_vt54913	wa_vt67913	VT25109	wa_vt71913	wa_vt58013	wa_vt58813	wa_vt59013
								
Fitting kit for outgoers with circuit breaker in Form 4	Closing strips	Mounting plates	Front plates	Separation partition connection/ dropper bar	Schottung [1] connection area/ main busbar	Partition switchgear area/switchgear area	Support for dropper busbar	Extension bracket
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSMFDB0406-2-N 193140	**XPFMC** 284146	see page xx	see page xx	-	-	**XPFMMR04-BF** 193111	see page xx	-
XSMFDB0606-N 193137	**XPFMC** 284146	see page xx	see page xx	-	-	**XPFMMR06-BF** 192705	see page xx	**XDB06** 283885
XSMFDB0406-N 193135	**XPFMC** 284146	see page xx	see page xx	**XPFCD2006** 284132	**XPFCB04** 284119	**XPFMMR04-BF** 193111	see page xx	-
XSMFDB0606-N 193137	**XPFMC** 284146	see page xx	see page xx	**XPFCD2006** 284132	**XPFCB02** 284745	**XPFMMR06-BF** 192705	see page xx	**XDB06** 283885
XSMFDB0606-N 193137	**XPFMC** 284146	see page xx	see page xx	**XPFCD2006** 284132	**XPFCB04** 284119	**XPFMMR06-BF** 192705	see page xx	**XDB06** 283885
XSMFDB0606-N 193137	**XPFMC** 284146	see page xx	see page xx	**XPFCD2006** 284132	**XPFCB06** 284746	**XPFMMR06-BF** 192705	see page xx	**XDB06** 283885

Note

* Finish in special RAL colour

[1] Width = depending on module width and width of section

xEnergy Main Switchboards

Outgoing Section/Fixed installation in Form 4, Main Busbars rear-mounted (HSS), Section depth 600 mm

wa_vt69913



wa_vt70013



wa_vt65113



wa_vt71113



wa_vt65013



wa_vt34213



VT22613



VT10513



Angle bracket for PE or PEN in connection area	Angle bracket for N+PEN in connection area	Door to switchgear area [2] IP55 closed left/right Glass door	Door to switchgear area [2] IP55 closed left/right	Door to switchgear area [2] IP31 Hinges left	Door to switchgear area [2] IP31 Hinges right	Door to switchgear area [2] IP42 Hinges left	Door to switchgear area [2] IP42 Hinges right
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
-	-	**XSDMD2004** 284203 122249*	**XSDMC2004** 184198 122244*	**XSDMLV2004** 284209 122255*	**XSDMRV2004** 284218 122264*	**XTSZDSKV4L-H2000W425** 172497	**XTSZDSKV4R-H2000W425** 172500
-	-	**XSDMD2006** 284204 122250*	**XSDMC2006** 184199 122245*	**XSDMLV2006** 284210 122256*	**XSDMRV2006** 284219 122265*	**XTSZDSKV4L-H2000W600** 172498	**XTSZDSKV4R-H2000W600** 172501
XDSFP 283895	**XDSFN** 283894	**XSDMD2004** 284203 122249*	**XSDMC2004** 184198 122244*	**XSDMLV2004** 284209 122255*	**XSDMRV2004** 284218 122264*	**XTSZDSKV4L-H2000W425** 172497	**XTSZDSKV4R-H2000W425** 172500
XDSFP 283895	**XDSFN** 283894	**XSDMD2006** 284204 122250*	**XSDMC2006** 184199 122245*	**XSDMLV2006** 284210 122256*	**XSDMRV2006** 284219 122265*	**XTSZDSKV4L-H2000W600** 172498	**XTSZDSKV4R-H2000W600** 172501
XDSFP 283895	**XDSFN** 283894	**XSDMD2006** 284204 122250*	**XSDMC2006** 184199 122245*	**XSDMLV2006** 284210 122256*	**XSDMRV2006** 284219 122265*	**XTSZDSKV4L-H2000W600** 172498	**XTSZDSKV4R-H2000W600** 172501
XDSFP 283895	**XDSFN** 283894	**XSDMD2006** 284204 122250*	**XSDMC2006** 184199 122245*	**XSDMLV2006** 284210 122256*	**XSDMRV2006** 284219 122265*	**XTSZDSKV4L-H2000W600** 172498	**XTSZDSKV4R-H2000W600** 172501

Note

* Finish in special RAL colour

[2] Incl. 3 mm double-bit lock, hinges, screw material and 4-point lock

Outgoing Section/Fixed installation in Form 4, Main Busbars rear-mounted (HSS), Section depth 600 mm

wa_vt34513	wa_vt65013	wa_vt34213	vt31715	vt31915
				
Door to cable connection area [3] IP55 closed	Door to cable connection area [3] IP31 Hinges left	Door to cable connection area [3] IP31 Hinges right	Door to cable connection area [3] IP42 Hinges left	Door to cable connection area [3] IP42 Hinges right
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
-	-	-	-	-
-	-	-	-	-
SDFC-20/0375 193094	**XSDFV3L-20/0375** 193095	**XSDFV3R-20/0375** 193096	**XSDFV4L-20/0375** 193097	**XSDFV4R-20/0375** 193098
XSDFC-20/02 193091	**XSDFV3L-20/02** 193092	**XSDFV3R-20/02** 193093	**nicht verfügbar** geschlossene Version verwenden	**nicht verfügbar** geschlossene Version verwenden
XSDFMC2004 284184	**XSDFMLV2004** 284188	**XSDFMRV2004** 284190	**XSDFMLV42004** 178332	**XSDFMRV42004** 178325
XSDFC-20/06 193099	**XSDFV3L-20/06** 193100	**XSDFV3R-20/06** 193101	**XSDFV4L-20/06** 193102	**XSDFV4R-20/06** 193103

Note

* Finish in special RAL colour

[3] Incl. 3 mm double-bit lock, hinges, screw material and 4-point lock

xEnergy Main Switchboards

Outgoing Section/Fixed installation in Form 4, Main Busbars rear-mounted (HSS), Section depth 800 mm

wa_vt77013



Section depth mm	Section width mm	Module width mm	Connection area width mm
800	425	425	0
	600	600	0
	800	425	400
		600	200
	1000	600	400
	1200	600	600

Outgoing Section/Fixed installation in Form 4, Main Busbars rear-mounted (HSS), Section depth 800 mm

VT19809



wa_vt57913



wa_vt54913



wa_vt67913



VT25109



wa_vt71913



wa_vt58013



wa_vt58813



wa_vt59013



Fitting kit for outgoers with circuit breaker in Form 4	Closing strips	Mounting plates	Front plates	Separation partition connection/ dropper bar	Schottung [1] connection area/ main busbar	Partition switchgear area/switchgear area	Support for dropper busbar	Extension bracket
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSMFDB0406-2-N 193140	**XPFMC** 284146	see page xx	see page xx	-	-	**XPFMMR04-BF** 193111	see page xx	**XDB06** 283885
XSMFDB0606-2-N 193141	**XPFMC** 284146	see page xx	see page xx	-	-	**XPFMMR06-BF** 192705	see page xx	**XDB06** 283885
XSMFDB0408-N 193136	**XPFMC** 284146	see page xx	see page xx	**XPFCD2008** 284133	**XPFCB04** 284119	**XPFMMR04-BF** 193111	see page xx	**XDB06** 283885
XSMFDB0608-350-N 193139	**XPFMC** 284146	see page xx	see page xx	**XPFCD2006** 284132	**XPFCB02** 284745	**XPFMMR06-BF** 192705	see page xx	**XDB06** 283885
XSMFDB0608-350-N 193139	**XPFMC** 284146	see page xx	see page xx	**XPFCD2006** 284132	**XPFCB04** 284119	**XPFMMR06-BF** 192705	see page xx	**XDB06** 283885
XSMFDB0608-350-N 193139	**XPFMC** 284146	see page xx	see page xx	**XPFCD2006** 284132	**XPFCB06** 284746	**XPFMMR06-BF** 192705	see page xx	**XDB06** 283885

Note

* Finish in special RAL colour

[1] Width = depending on module width and width of section

xEnergy Main Switchboards

Outgoing Section/Fixed installation in Form 4, Main Busbars rear-mounted (HSS), Section depth 800 mm

wa_vt69913



wa_vt70013



wa_vt65113



wa_vt71113



wa_vt65013



wa_vt34213



VT22613



VT10513



Angle bracket for PE or PEN in connection area	Angle bracket for N+PEN in connection area	Door to switchgear area [2] IP55 closed left/right Glass door	Door to switchgear area [2] IP55 closed left/right	Door to switchgear area [2] IP31 Hinges left	Door to switchgear area [2] IP31 Hinges right	Door to switchgear area [2] IP42 Hinges left	Door to switchgear area [2] IP42 Hinges right
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
-	-	**XSDMD2004** 284203 122249*	**XSDMC2004** 184198 122244*	**XSDMLV2004** 284209 122255*	**XSDMRV2004** 284218 122264*	**XTSZDSKV4L-H2000W425** 172497	**XTSZDSKV4R-H2000W425** 172500
-	-	**XSDMD2006** 284204 122250*	**XSDMC2006** 184199 122245*	**XSDMLV2006** 284210 122256*	**XSDMRV2006** 284219 122265*	**XTSZDSKV4L-H2000W600** 172498	**XTSZDSKV4R-H2000W600** 172501
XDSFP 283895	**XDSFN** 283894	**XSDMD2004** 284203 122249*	**XSDMC2004** 184198 122244*	**XSDMLV2004** 284209 122255*	**XSDMRV2004** 284218 122264*	**XTSZDSKV4L-H2000W425** 172497	**XTSZDSKV4R-H2000W425** 172500
XDSFP 283895	**XDSFN** 283894	**XSDMD2006** 284204 122250*	**XSDMC2006** 184199 122245*	**XSDMLV2006** 284210 122256*	**XSDMRV2006** 284219 122265*	**XTSZDSKV4L-H2000W600** 172498	**XTSZDSKV4R-H2000W600** 172501
XDSFP 283895	**XDSFN** 283894	**XSDMD2006** 284204 122250*	**XSDMC2006** 184199 122245*	**XSDMLV2006** 284210 122256*	**XSDMRV2006** 284219 122265*	**XTSZDSKV4L-H2000W600** 172498	**XTSZDSKV4R-H2000W600** 172501
XDSFP 283895	**XDSFN** 283894	**XSDMD2006** 284204 122250*	**XSDMC2006** 184199 122245*	**XSDMLV2006** 284210 122256*	**XSDMRV2006** 284219 122265*	**XTSZDSKV4L-H2000W600** 172498	**XTSZDSKV4R-H2000W600** 172501

Note

* Finish in special RAL colour

[2] Incl. 3 mm double-bit lock, hinges, screw material and 4-point lock

Outgoing Section/Fixed installation in Form 4, Main Busbars rear-mounted (HSS), Section depth 800 mm

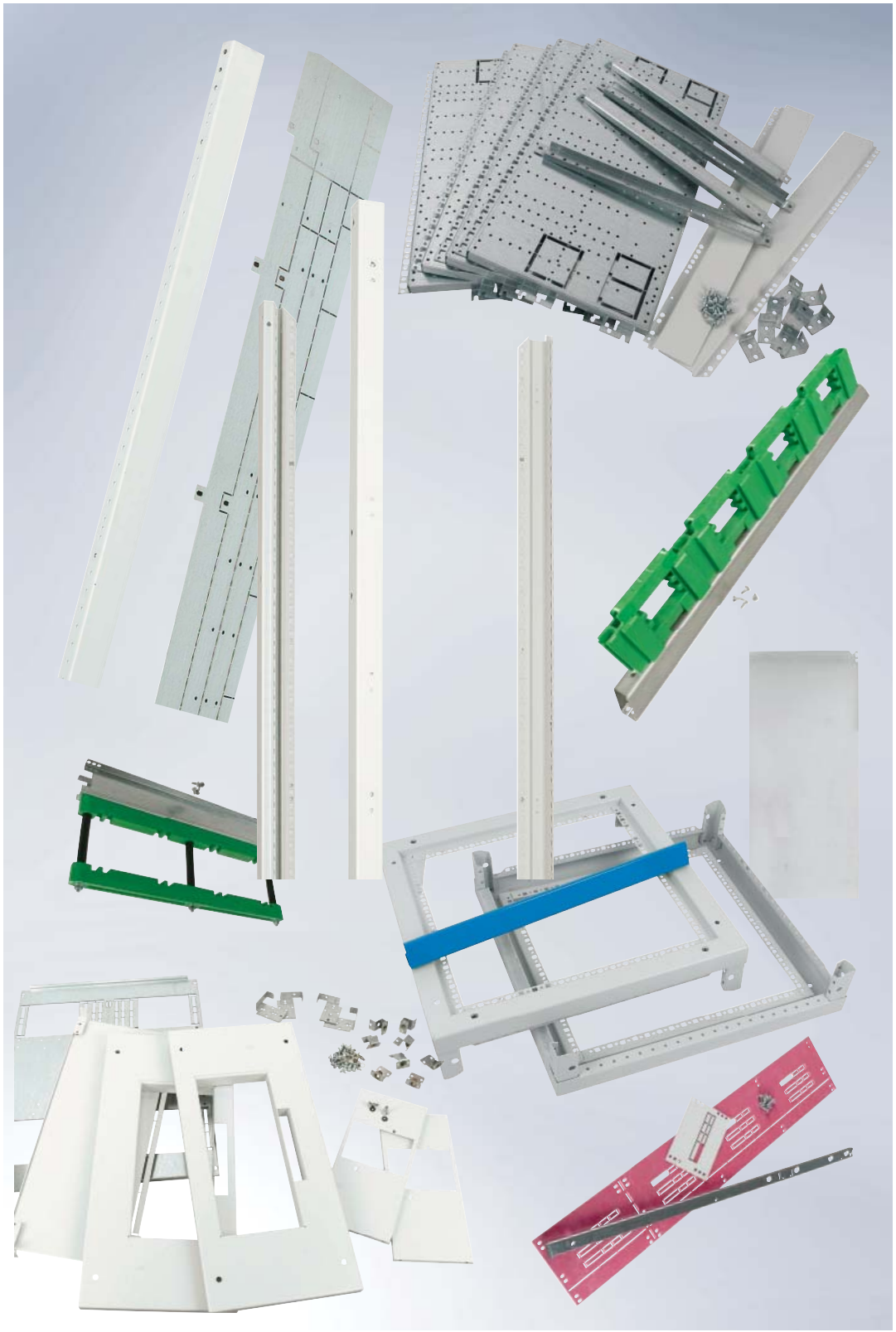
wa_vt34513	wa_vt65013	wa_vt34213	vt31715	vt31915
				
Door to cable connection area [3] IP55 closed	Door to cable connection area [3] IP31 Hinges left	Door to cable connection area [3] IP31 Hinges right	Door to cable connection area [3] IP42 Hinges left	Door to cable connection area [3] IP42 Hinges right
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
-	-	-	-	-
-	-	-	-	-
SDFC-20/0375 193094	**XSDFV3L-20/0375** 193095	**XSDFV3R-20/0375** 193096	**XSDFV4L-20/0375** 193097	**XSDFV4R-20/0375** 193098
XSDFC-20/02 193091	**XSDFV3L-20/02** 193092	**XSDFV3R-20/02** 193093	**nicht verfügbar** geschlossene Version verwenden	**nicht verfügbar** geschlossene Version verwenden
XSDFMC2004 284184	**XSDFMLV2004** 284188	**XSDFMRV2004** 284190	**XSDFMLV42004** 178332	**XSDFMRV42004** 178325
XSDFC-20/06 193099	**XSDFV3L-20/06** 193100	**XSDFV3R-20/06** 193101	**XSDFV4L-20/06** 193102	**XSDFV4R-20/06** 193103

Note

* Finish in special RAL colour

[3] Incl. 3 mm double-bit lock, hinges, screw material and 4-point lock

Components Outgoing Section in Form 4



Accessories

Fitting kits for outgoing sections Form 4

VT19809



Section depth mm	Fitting kits for MCB outgoing sections Module width 400 mm Form 4 Article No. per unit	Fitting kits for MCB outgoing sections Module width 600 mm depth = 275 mm Form 4 Article No. per unit	Fitting kits for MCB outgoing sections Module width 600 mm depth = 475 mm Form 4 Article No. per unit	Fitting kits for MCB outgoing sections Module width 400 mm Form 4 without cable connection Article No. per unit	Fitting kits for MCB outgoing sections Module width 600 mm Form 4 without cable connection Article No. per unit
600	**XSMFDB0406-N** 193135	**XSMFDB0606-N** 193137	**-**	**XSMFDB0406-2-N** 193140	**XSMFDB0606-2-N** 193141
800	**XSMFDB0408-N** 193136	**XSMFDB0608-N** 193138	**XSMFDB0608-350-N** 193139	**XSMFDB0406-2-N** 193140	**XSMFDB0606-2-N** 193141

Doors to Switchgear Area

• Incl. 3 mm double-bit lock, hinges, screw material and 4-point lock













Section depth mm	Section width mm	Door to switchgear area IP55 closed left/right Glass door Article No. per unit	Door to switchgear area IP55 closed left/right Article No. per unit	Door to switchgear area IP31 Hinges left Article No. per unit	Door to switchgear area IP31 Hinges right Article No. per unit	Door to switchgear area IP42 Hinges left Article No. per unit	Door to switchgear area IP42 Hinges right Article No. per unit
800	425	**XSDMD2004** 284203 122249*	**XSDMC2004** 184198 122244*	**XSDMLV2004** 284209 122255*	**XSDMRV2004** 284218 122264*	**XTSZDSKV4L-H2000W425** 172497	**XTSZDSKV4R-H2000W425** 172500
	600	**XSDMD2006** 284204 122250*	**XSDMC2006** 184199 122245*	**XSDMLV2006** 284210 122256*	**XSDMRV2006** 284219 122265*	**XTSZDSKV4L-H2000W600** 172498	**XTSZDSKV4R-H2000W600** 172501
	800	**XSDMD2004** 284203 122249*	**XSDMC2004** 184198 122244*	**XSDMLV2004** 284209 122255*	**XSDMRV2004** 284218 122264*	**XTSZDSKV4L-H2000W425** 172497	**XTSZDSKV4R-H2000W425** 172500
		XSDMD2006 284204 122250*	**XSDMC2006** 184199 122245*	**XSDMLV2006** 284210 122256*	**XSDMRV2006** 284219 122265*	**XTSZDSKV4L-H2000W600** 172498	**XTSZDSKV4R-H2000W600** 172501
	1000	**XSDMD2006** 284204 122250*	**XSDMC2006** 184199 122245*	**XSDMLV2006** 284210 122256*	**XSDMRV2006** 284219 122265*	**XTSZDSKV4L-H2000W600** 172498	**XTSZDSKV4R-H2000W600** 172501
	1200	**XSDMD2006** 284204 122250*	**XSDMC2006** 184199 122245*	**XSDMLV2006** 284210 122256*	**XSDMRV2006** 284219 122265*	**XTSZDSKV4L-H2000W600** 172498	**XTSZDSKV4R-H2000W600** 172501

Note * Finish in special RAL colour

Doors to Cable Connection Area

• Incl. 3 mm double-bit lock, hinges, screw material and 4-point lock











Section depth mm	Section width mm	Door to cable connection area IP55 closed Article No. per unit	Door to cable connection area IP31 Hinges left Article No. per unit	Door to cable connection area IP31 Hinges right Article No. per unit	Door to cable connection area IP42 Hinges left Article No. per unit	Door to cable connection area IP42 Hinges right Article No. per unit
800	425	-	-	-	-	-
	600	-	-	-	-	-
	800	**SDFC-20/0375** 193094	**XSDFV3L-20/0375** 193095	**XSDFV3R-20/0375** 193096	**XSDFV4L-20/0375** 193097	**XSDFV4R-20/0375** 193098
		XSDFC-20/02 193091	**XSDFV3L-20/02** 193092	**XSDFV3R-20/02** 193093	**nicht verfügbar** geschlossene Version verwenden	**nicht verfügbar** geschlossene Version verwenden
	1000	**XSDFMC2004** 284184	**XSDFMLV2004** 284188	**XSDFMRV2004** 284190	**XSDFMLV42004** 178332	**XSDFMRV42004** 178325
	1200	**XSDFC-20/06** 193099	**XSDFV3L-20/06** 193100	**XSDFV3R-20/06** 193101	**XSDFV4L-20/06** 193102	**XSDFV4R-20/06** 193103

Note * Finish in special RAL colour

Dropper Bars up to 1600 A for Outgoing Sections, Fitting Kits

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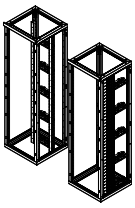


Features:
- 800 – 1600 A
- TN-C, TN-C-S, TN-S, IT, TT
- I_{cw} (1 s) up to 50 kA[1)]

wa_vt58813



wa_vt58913



Angle bracket for N and PEN in the cable connection area

wa_vt69913



wa_vt70013



I_e A	Busbar cross-sections L1, L2, L3, full N mm²	PE, PEN mm²	Type of Busbar support 3 poles L1, L2, L3, or 4 poles L1, L2, L3, N Article No. per unit	End support at the bottom Article No. per unit	Type of Support for conductor in connection area[1)] PE or PEN Article No. per unit	N+PEN Article No. per unit
Dropper bars on the side, center-to-center phase distance 60 mm						
800	2 x 20 x 10	1 x 20 x 10	**XDSF08** 283888	**XDSF08E** 283889	**XDSFP** 283895	**XDSFN** 283894
1250	2 x 40 x 10	1 x 40 x 10	**XDSF12** 283890	**XDSF12E** 283891	**XDSFP** 283895	**XDSFN** 283894
1600	2 x 60 x 10	1 x 60 x 10	**XDSF16** 283892	**XDSF16E** 283893	**XDSFP** 283895	**XDSFN** 283894

Extension bracket

wa_vt59013



VT00412



Module width mm	Type of Extension bracket for busbar support XDSF... for rear-mounted dropper bars Article No. per unit	Type of Extension bracket for busbar support (strong design for lowest position) Article No. per unit
425	**not required**	-
600	**XDB06** 283885	**XADB06E** 166745
800	**XDB08** 192696	**XADB08E** 192697

Note [1)] Also suitable for mounting cable ducts, auxiliary busbars etc.

Accessories for Outgoing Sections

Partitions for internal separation

VT25109



Section depth mm	Form 2/4 Partition connection area/dropper bar area Article No. per unit unit = 1 set
600	**XPFCD2006** 284132
800	**XPFCD2008** 284133

wa_vt58013



Module width mm	Form 4 Partition switchgear area/switchgear area Article No. per unit unit = 1 set
425	**XPFMMR04-BF** 193111
600	**XPFMMR06-BF** 192705
800	**XPFMMR08-BF** 192706

wa_vt71913



Section width mm	Form 2/4 Connection area/drop-per bar area in the widths of 200/400/600 Article No. per unit unit = 1 set
800	**XPFCB02** 284745
1000	**XPFCB04** 284119
1200	**XPFCB06** 284746

wa_vt57913



Form 4 Closing strip switchgear area/connection area L = 650 mm Article No. per unit unit = 1 set
XPFMC 284146

Mounting Brackets for Underground Mounting Plates

VT18409



Underground bracket	Article No. per unit unit = 2 pcs. left bracket, 2 pcs. right bracket
	XPFMC 284146

Accessories

Cover panels for module cable entry

- Can be used instead of closing strips (XPFMC/284146)
- Cover plates of 150-450 mm height are available; larger modules require the combination of two or more cover plates
- Double modules require two cover plates, one each for left and right

vt25517



Module height mm	Cover panels for module cable entry Article No. per unit
150	**XPCS06** 192666
200	**XPCS08** 192667
250	**XPCS10** 192668
350	**XPCS14** 192669
400	**XPCS18** 192670

Protective covers for feeder copper

- Serve as partition between the feeder coppers that lead from the main busbar to the switch
- Includes screws

vt25917



MCCB Frame size	Single module Article No. per unit	Double module Article No. per unit
NZM1	**XPFMC1-S** 192671	**XPFMC1-2** 192672
NZM2	**XPFMC2-S** 192673	**XPFMC2-2** 192674
NZM3	**XPFMC3-S** 192675	-
NZM4	**XPFMC4-S** 192677	-

Cover for neutral-conductor version

- Finger-safe protective cover for the neutral-conductor version
- Suitable for single and double modules
- Double modules require two protective covers each
- Includes screws

vt25717



MCCB Frame size	Cover for neutral-conductor version Article No. per unit
NZM1	**XDN-NZM1-BF-S** 192678
NZM2	**XDN-NZM2-BF-S** 192676
NZM3	**XDN-NZM3-BF-S** 192681
NZM4	**XDN-NZM4-BF-S** 192682

End caps for neutral-conductor version

- The end cap also covers the terminal point
- Not required for type 6/7 set-up

vt25617



MCCB Frame size	End caps for neutral-conductor version Article No. per unit
NZM1	**XDN-NZM1-BF-E** 192683
NZM2	**XDN-NZM2-BF-E** 192684
NZM3	**XDN-NZM1-BF-E** 192685

Accessories

Partition/cover for type 6/7 set-up

- Creates an additional termination area that is separated from all other functional areas in the module
- Suitable for single and double modules
- Double modules require two protective covers each
- Includes screws

vt25417



MCCB Frame size	Partition/cover for type 6/7 set-up Article No. per unit
NZM1	**XPCMCV1** 192686
NZM2	**XPCMCV2** 192687
NZM3 up to 400 A	**XPCMCV3-400** 192688
NZM3 up to 630 A	**XPCMCV3-630** 192689
NZM4	**XPCMCV3** 192690

Copper connection piece

- Facilitates the connection of the Cu-bars/cables
- For NZM3 = connection enlargement/sub-sections

MCCB Frame size	Incoming side dropper bar Article No. per unit	Outgoing side cable connection Article No. per unit
NZM1	**XNNC-NZM1-I** 192691	**XNNC-NZM1-O** 192693
NZM2	**XNNC-NZM2-I** 192692	**XNNC-NZM2-O** 192694
NZM3 up to 630 A	-	**XNNC-NZM3-O** 192695

Accessories for Outgoing Sections

xEnergy Main EBS Front Panels for FAZ

wa_vt67713 wa_vt54813 wa_vt70813



Width mm	UK H = 50 mm for PLH switch	H = 150 mm	H = 200 mm	H = 300 mm	H = 400 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	-	**XMMC0604C** 283979 122152*	**XMMC0804C** 283983 122154*	**XMMC1204C** 283987 122156*	**XMMC1604C** 283991 122158*
600	**XMPL10606C-UK** 110258 122595*	**XMMC0606C** 283981 122153*	**XMMC0806C** 283985 122155*	**XMMC1206C** 283989 122157*	**XMMC1606C** 283993 122159*
800	-	**XMMC0608C** 106718 122507*	**XMMC0808C** 106730 122509*	-	-
1000	-	**XMMC0610C** 106719 122508*	**XMMC0810C** 106731 122510*	-	-

xEnergy Main EBS Front Panels - Empty

wa_vt67613 wa_vt33613 wa_vt67313



Width mm	H = 25 mm	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 400 mm	H = 600 mm	H = 600 mm	ventilated H = 100 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	-	**XME0204C** 283922 122121*	**XME0404C** 283926 122123*	**XME0604C** 283934 122129*	**XME0804C** 283939 122134*	**XME1004C** 144587 144589*	**XME1204C** 283946 122139*	**XME1604C** 283948 122141*	**XME2404C** 294923 122412*	-	**XME0404CV** 283928 122125*
600	**XME0106C** 158619 158620*	**XME0206C** 283924 122122*	**XME0406C** 283930 122126*	**XME0606C** 283936 122131*	**XME0806C** 283942 122136*	**XME1006C** 144588 144590*	**XME1206C** 283947 122140*	**XME1606C** 283950 122142*	**XME2406C** 294924 122413*	**XME3206C** 294926 122415*	**XME0406CV** 283932 122128*

Note * Finish in special RAL colour

Accessories for Outgoing Sections

xEnergy Main EBS Front Panels for PKZ 0/4/2

wa_vt67813



wa_vt67913



Width mm	horizontal 3 poles H = 50 mm PKZ0 Article No. per unit	horizontal 3 poles H = 100 mm PKZ4 Article No. per unit
425	**XMP030204C** 284087 122212*	**XMP430404C** 284095 122214*
600	**XMP030206C** 284089 122213*	**XMP430406C** 284097 122215*

xEnergy Main EBS Front Panels for NZM1

wa_vt66913



wa_vt67413



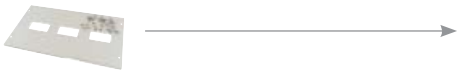
wa_vt67513



wa_vt67413



wa_vt68913



Width mm	UK 1x NZM1 horiz. 4 poles H = 150 mm fixed with cut-out for measu-ring device 90/90 Article No. per unit	UK 1x NZM1 horizontal 4 poles H = 150 mm fixed Article No. per unit	1x NZM1 horizontal 3 poles H = 100 mm fixed Article No. per unit	1x NZM1 horizontal 4 poles H = 150 mm fixed Article No. per unit	1x NZM1 horizontal 4 poles H = 150 mm plug-in module technology Article No. per unit	2x NZM1 vertical 3 poles H = 300 mm fixed Article No. per unit	3x NZM1 vertical 3 poles H = 300 mm fixed Article No. per unit	2x NZM1 vertical 4 poles H = 300 mm fixed Article No. per unit	3x NZM1 vertical 4 poles H = 300 mm fixed Article No. per unit
425	-	-	**XMN130404C** 283995 122160*	**XMN140604C** 284003 122164*	**XMN130604C** 121799 122637*	**XMN131204CV** 283999 122162*	-	**XMN141204CV** 284007 122166*	-
600	**XMN140606C-1-UK** 110262 122599*	**XMN140606C-UK** 110259 122596*	**XMN130406C** 283997 122161*	**XMN140606C** 284005 122165*	**XMN130606C** 121797 122636*	-	**XMN131206CV** 284001 122163*	-	**XMN141206CV** 284009 122167*

Note * Finish in special RAL colour

Accessories for Outgoing Sections

xEnergy Main EBS Front Panels for NZM2

wa_vt54613



Width mm	UK 1x NZM2 horizontal 4 poles H = 200 mm with cut-out for measuring devices fixed Article No. per unit	UK 1x NZM2 horizontal 4 poles H = 200 mm fixed Article No. per unit	1x NZM2 horizontal 3 poles H = 150 mm fixed Article No. per unit	1x NZM2 horizontal 3 poles H = 150 mm plug-in module technology Article No. per unit	1x NZM2 horizontal 3 poles H = 150 mm with motorlift (placed 15 mm above front panel) Article No. per unit	1x NZM2 horizontal 4 poles H = 200 mm fixed Article No. per unit	1x NZM2 horizontal 4 poles H = 200 mm with motorlift (placed 15 mm above front panel) Article No. per unit	1xNZM2 horizontal 4 poles H = 200 mm plug-in technology fixed Article No. per unit
425	-	-	**XMN230604C** 284011 122168*	-	-	**XMMC0804C** 283983 122154*	-	-
600	**XMN240606C-1-UK** 110263 122600*	**XMN240606C-UK** 110260 122597*	**XMN230606C** 284013 122169*	**XMN230606C** 284013 122169*	**XMN230606CR** 292907 122406*	**XMN240806C** 284026 122176*	**XMN240806CR** 125993 125994*	**XMN240806C** 284026 122176*

xEnergy Main EBS Front Panels for NZM2 (continued)

wa_vt70713



Width mm	1x NZM2 horizontal 4 poles H = 200 mm cover for RCD module fixed Article No. per unit	2x NZM2 vertical 3 poles H = 400 mm fixed Article No. per unit	3x NZM2 vertical 3 poles H = 400 mm fixed Article No. per unit	2x NZM2 vertical 3 poles H = 600 mm plug-in module tech-nology Article No. per unit	3x NZM2 vertical 3 poles H = 600 mm plug-in technology Article No. per unit	2x NZM2 vertical 4 poles H = 400 mm fixed Article No. per unit	2x NZM2 vertical 4 poles H = 600 mm plug-in technology Article No. per unit
425	-	**XMN231604CV** 284015 122170*	-	**XMN232404CV** 284019 122172*	-	**XMN241604CV** 284028 122177*	**XMN242404CV** 284032 122179*
600	**XMN240806CF** 284659 122356*	-	**XMN231606CV** 284017 122171*	-	**XMN232406CV** 284021 122173*	**XMN241606CV** 284030 122178*	**XMN242406CV** 284034 122180*

Note * Finish in special RAL colour

Accessories for Outgoing Sections

xEnergy Main EBS Front Panels for NZM3

wa_vt67113



Width mm	UK 1x NZM3 horizontal 4 poles H = 250 mm with cut-out for measuring devices fixed Article No. per unit	UK 1x NZM3 horizontal 4 poles H = 250 mm fixed Article No. per unit	1x NZM3 horizontal 3 poles H = 200 mm fixed Article No. per unit	1x NZM3 horizontal 3 poles H = 250 mm fixed Article No. per unit	1x NZM3 horizontal 4 poles H = 250 mm fixed Article No. per unit	1x NZM3 horizontal 4 poles H = 300 mm fixed Article No. per unit	1x NZM3 horizontal 3 poles H = 600 mm fixed Article No. per unit	2x NZM3 vertical 3 poles H = 600 mm fixed Article No. per unit
425	-	-	-	-	-	-	**XMN332404CV2** 284044 122186*	-
600	**XMN340606C-1-UK** 110264 122601*	**XMN340606C-UK** 110261 122598*	**XMN330806C** 284036 122181*	**XMN331006C** 284039 122183*	**XMN341006C** 284052 122191*	**XMN341206C** 284055 122193*	-	**XMN332406CV2** 284049 122189*

xEnergy Main EBS Front Panels for NZM3 (continued)

wa_vt73013



Width mm	1x NZM3 vertical 3 poles H = 600 mm withdrawable, suitable only for sections of 800 mm depth Article No. per unit	1x NZM3 vertical 4 poles H = 600 mm fixed Article No. per unit	1x NZM3 vertical 4 poles H = 600 mm withdrawable, suitable only for sections of 800 mm depth Article No. per unit	1x NZM3 horizontal 3 poles H = 200 mm with motor lift, lift sticks 55 mm out of front panel, no turning of the front panel possible, fixed Article No. per unit	1x NZM3 horizontal 4 poles H = 250 mm with motor lift, lift sticks 55 mm out of front panel, no turning of the front panel possible, fixed Article No. per unit
425	**XMN332404CV1** 284042 122184*	**XMN342404CV2** 284060 122196*	**XMN342404CV1** 284058 122194*	-	-
600	**XMN332406CV1** 284047 122187*	**XMN342406CV2** 284065 122200*	**XMN342406CV1** 284063 122198*	**XMN330806CR** 284037 122182*	**XMN341006CR** 284053 122192*

Note * Finish in special RAL colour

Front Covers BF-modules

- BF-modules can be used just in IP31
- Cover plates for fixed installed MCCB's in frame size 1-3
- Cover plates fitts to: 3 or 4 poles or 3P+N

vt25017



vt24917



	MCCB Frame size NZM1 Module height 150 mm Article No. per unit	MCCB Frame size NZM2 Module height 200 mm Article No. per unit	MCCB Frame size NZM3 up to 400 A Module height 250 mm Article No. per unit	up to 630 A Module height 350 mm Article No. per unit	MCCB Frame size NZM4 Module height 450 mm Article No. per unit
Module width 600 Single module	**XMN140606C-BF-2** 192656	**XMN240806C-BF** 192658	**XMN341006C-400-BF** 192661	**XMN341406C-630-BF** 192663	-
Module width 600 Double module	-	-	-	-	-
Module width 800 Single module	**XMN140608C-BF-2** 192657	**XMN240808C-BF** 192659	**XMN341008C-400-BF** 192662	**XMN341408C-630-BF** 192664	**XMN441808C-BF** 192665
Module width 800 Double module	-	**XMN240808C-BF-2** 192660	-	-	-

Accessories for Outgoing Sections

EBS Front Panels with Punch Holes, EBS Front Panels with Cut-out for Measuring Devices

wa_vt67213 wa_vt71713 wa_vt71613 wa_vt67013 wa_vt67013 wa_vt71513



Width mm	9x RMQ D = 22,5 mm H = 100 mm	12x RMQ D = 22,5 mm H = 100 mm	2x Measuring devices 72/72 2x Changeover switch H = 150 mm	4x Measuring devices 72/72 1x Changeover switch H = 200 mm	2x Measuring devices 72/72 2x Changeover switch H = 150 mm	4x Measuring devices 96/96 2x Changeover switch H = 150 mm	2x Measuring devices 96/96 2x Changeover switch H = 200 mm	4x Measuring devices 96/96 1x Changeover switch H = 200 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	**XME0404CI** 283927 122124*	-	**XME0604CM** 283935 122130*	**XME0804CM** 283940 122135*	-	-	-	-
600	-	**XME0406CI** 283931 122127*	-	-	**XME0606CM2** 283937 122132*	**XME0606CM4** 283938 122133*	**XME0806CM2** 283943 122137*	**XME0806CM4** 283944 122138*

Covers for circuit breaker cut-out

wa_vt69813



NZM1 Closing plate for closing the front cover (spare space)	NZM2 Closing plate for closing the front cover (spare space)	NZM3 Closing plate for closing the front cover (spare space)
Article No. per unit	Article No. per unit	Article No. per unit
NBP-1000 275413	**XAS2-3** 284741 122364*	**XAS3-3** 284743 122366*

Note * Finish in special RAL colour

Accessories for Outgoing Sections

Mounting Plates for FAZ

wa_vt68413



wa_vt55013



wa_vt71413



Width mm	UK	min. H = 150 mm 1 row	min. H = 200 mm 1 row	min. H = 300 mm 2 rows	min. H = 400 mm 2 rows
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	-	**XMMC0604M** 283980	**XMMC0804M** 283984	**XMMC1204M** 283988	**XMMC1604M** 283992
600	**XMPL10606M-UK** 110254	**XMMC0606M** 283982	**XMMC0806M** 283986	**XMMC1206M** 283990	**XMMC1606M** 283994
800	-	**XMMC0608M** 106736	**XMMC0808M** 106737	-	-
1000	-	**XMMC0610M** 106738	**XMMC0810M** 106739	-	-

Undrilled component mounting plates to mount user specific items

- Includes fastening material (screws and fastening brackets)

wa_vt33513



Module height mm	Width 425 mm	Width 600 mm	Width 800 mm
	Article No. per unit	Article No. per unit	Article No. per unit
50	**XME0204M** 283923	**XME0206M** 283925	-
100	**XME0404M** 283929	**XME0406M** 283933	**XME0408M** 285689
150	**XME0604M** 284727	**XME0606M** 284728	**XME0608M** 285690
200	**XME0804M** 283941	**XME0806M** 283945	**XME0808M** 285691
250	**XME1004M** 144585	**XME1006M** 144586	**XME1208M** 171728
300	**XME1204M** 285684	**XME1206M** 285686	**XME1208M** 285692
350	**XME1404M-1** 110333	**XME1406M** 171724	**XME1408M** 171729
400	**XME1604M** 283949	**XME1606M** 283951	**XME1608M** 285693
500	**XME2004M-1** 110331	**XME2006M** 171725	**XME2008M** 171730
600	**XME2404M** 285685	**XME2406M** 285687	**XME2408M** 285694
800	-	**XME3206M** 126010	**XME3208M** 171731
1000	-	**XME4006M** 171726	**XME4008M** 171732
1200	-	**XME4806M** 171727	**XME4808M** 171733
1400	-	-	-
1600	-	-	-

Accessories for Outgoing Sections

Mounting Plates for PKZ

wa_vt68313



wa_vt68113



Width mm	horizontal 3 poles H = 50 mm	horizontal 3 poles H = 100 mm
	Article No. per unit	Article No. per unit
425	**XMP030204M** 284088	**XMP430404M** 284096
600	**XMP030206M** 284090	**XMP430406M** 284098

Mounting Plates for NZM1

wa_vt68013



wa_vt68113



Width mm	UK 1x NZM1 horizontal 4 poles H = 150 mm fixed	1x NZM1 horizontal 3 poles H = 100 mm fixed	1x NZM1 horizontal 4 poles H = 150 mm fixed	1x NZM1 horizontal 3 poles H = 150 mm plug-in module technology	2x NZM1 vertical 3 poles H = 300 mm fixed	3x NZM1 vertical 3 poles H = 300 mm fixed	2x NZM1 vertical 4 poles H = 300 mm fixed	3x NZM1 vertical 4 poles H = 300 mm fixed
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	-	**XMN130404M** 283996	**XMN140604M** 284004	**XMN130604MP** 121798	**XMN131204MV** 284000	-	**XMN141204MV** 284008	-
600	**XMN140606M-UK** 110255	**XMN130406M** 283998	**XMN140606M** 284006	**XMN130606MP** 121796	-	**XMN131206MV** 284002	-	**XMN141206MV** 284010

Accessories for Outgoing Sections

Mounting Plates for NZM2

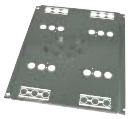
wa_vt54913



Width mm	UK 1x NZM2 horizontal 4 poles H = 200 mm fixed	1x NZM2 horizontal 3 poles H = 150 mm fixed	1x NZM2 horizontal 3 poles H = 150 mm plug-in module technology	1x NZM2 horizontal 3 poles H = 150 mm with motorlift (sticking 15 mm out of front panel)	1x NZM2 horizontal 4 poles H = 200 mm fixed	1x NZM2 horizontal 4 poles H = 200 mm plug-in technology	1x NZM2 horizontal 4 poles H = 200 mm cover for RCD module fixed	2x NZM2 vertical 3 poles H = 400 mm fixed
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	-	**XMN230604M** 284012	-	-	**XMN240804M** 284025	-	-	**XMN231604MV** 284016
600	**XMN240606M-UK** 110256	**XMN230606M** 284014	**XMN230606MP** 284724	**XMN230606M** 284014	**XMN240806M** 284027	**XMN240806MP** 284726	**XMN240806MF** 134485	-

Mounting Plates for NZM2 (several devices on one plate)

wa_vt73113



Width mm	3x NZM2 vertical 3 poles H = 400 mm fixed	2x NZM2 vertical 3 poles H = 600 mm plug-in module technology	3xNZM2 vertical 3 poles H = 600 mm plug-in technology	2x NZM2 vertical 4 poles H = 400 mm fixed	2x NZM2 vertical 4 poles H = 600 mm plug-in technology
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	-	**XMN232404MV** 284020	-	**XMN241604MV** 284029	**XMN242404MV** 284033
600	**XMN231606MV** 284018	-	**XMN232406MV** 284022	**XMN241606MV** 284031	**XMN242406MV** 284035

Accessories for Outgoing Sections

Mounting Plates for NZM3

wa_vt72913



Width mm	UK 1x NZM3 horizontal 4 poles H = 250 mm fixed	1x NZM3 horizontal 3 poles H = 200 mm fixed	1x NZM3 horizontal 3 poles H = 250 mm fixed	1x NZM3 horizontal 4 poles H = 250 mm fixed	1x NZM3 horizontal 4 poles H = 300 mm fixed	1x NZM3 vertical 3 poles H = 600 mm fixed	2x NZM3 vertical 3 poles H = 600 mm fixed	1x NZM3 vertical 3 poles H = 600 mm withdrawable
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	-	-	-	-	-	**XMN332404MV** 284046	-	**XMN332404MV** 284046
600	**XMN340606M-UK** 110257	**XMN330806M** 284038	**XMN331006M** 284041	**XMN341006M** 284054	**XMN341206M** 284057	-	**XMN332406MV** 284051	**XMN332406MV** 284051

Mounting Plates for NZM3 (continued)

wa_vt72913



Width mm	1x NZM3 vertical 4 poles H = 600 mm fixed	1x NZM3 vertical 4 poles H = 600 mm withdrawable	1x NZM3 horizontal 3 poles H = 200 mm with motor lift, motor lift sticks 55 mm through front panel, no turning possible, fixed	1x NZM3 horizontal 4 poles H = 250 mm with motor lift, motor lift sticks 55 mm through front panel, no turning possible, fixed
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	**XMN342404MV** 284062	**XMN342404MV** 284062	-	-
600	**XMN342406MV** 284067	**XMN342406MV** 284067	**XMN330806M** 284038	**XMN341006M** 284054

Mounting plates

BF-Module (Britisch Standard)

- BF-Modules are only available in IP31
- Outgoing cable area is always on the right
- Size 1-3 of the NZM series is suitable for both the fi xed and the plug-in design
- Option to install a neutral conductor (3P+N)
- 3 or 4 poles, or 3P+N possible
- Comes with all the installation holes necessary for fixed, plug-in option or withdrawable (NZM3)
- Includes all fixing brackets and screws
- All MCCBs are mounted horizontally with the exception of the NZM3 mounted in a 425 wide module, where the NZM3 is mounted vertically

vt25117



	MCCB Frame size NZM1		MCCB Frame size NZM2		MCCB Frame size NZM3 up to 400 A	MCCB Frame size NZM3 up to 630 A			MCCB Frame size NZM4
	Module height 150 mm	Module height 200 mm	Module height 200 mm	Module height 300 mm	Module height 250 mm	Module height 350 mm	Module height 500 mm	Module height 600 mm	Module height 450 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
Module width 600 Single module	-	-	**XMN240806-BF** 192711	-	**XMN341006-400-BF** 192715	**XMN341406-630-BF** 192717	-	-	-
Module width 600 Double module	**XMN140606-BF-2** 192709	-	**XMN240806-BF-2** 192713	-	-	-	-	-	-
Module width 800 Single module	-	-	**XMN240808-BF** 192712	-	**XMN341008-400-BF** 192716	**XMN341408-630-BF** 192718	-	-	**XMN441808-630-BF** 192719
Module width 800 Double module	**XMN140608-BF-2** 192710	-	**XMN240808-BF-2** 192714	-	-	-	-	-	-

Accessories for 5000 A application with a section depth of 1000 mm

Accessories for Outgoing Sections: Continuous Mounting Plate/Partition for Cable Connection Area in an Outgoing Section

For fixing terminals/contact blocks in the cable connection area; it also serves as a partition between cable connection area and main busbar area. For outgoing sections in a 5000 A system (with an additional main busbar area) using this type of partitions is compulsory.

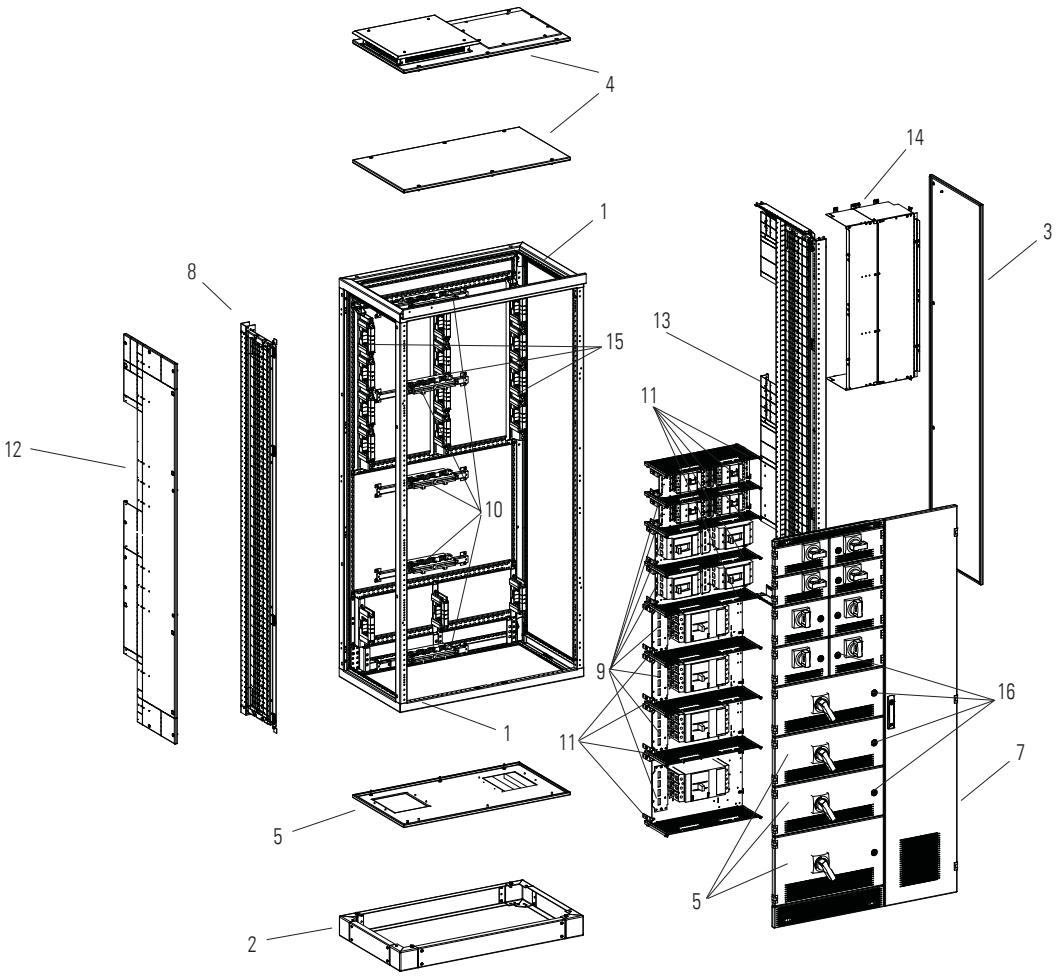
VT01611



Section width mm	Switchgear area width mm	Cable connecting area width mm	NZM outgoing sections Form 2/4 Article No. per unit unit = 1 set
600	425	172	**XPFBCB172** 158606
800	425	372	**XPFBCB372** 158607
	600	197	**XPFBCB197** 158608
1000	600	397	**XPFBCB397** 158609
1200	600	597	**XPFBCB597** 158610

Description

Box_Exploded_View



1 Frame
2 Plinth
3 Side panel
4 Top panel
5 Bottom panel
6 Module door
7 Door to connection area
8 Fitting kit for the box solution
9 Mounting plate
10 Support for dropper bar
11 Separation switchgear area/switchgear area
12 Separation panel between section/section
13 Separation panel dropper bar area/connection area
14 Partition main busbar/connection area
15 Main busbar support
16 Lock mechanism

Features

- Widths of 800/1000/1200 mm
- Panel widths of 425 and 600 mm
- Each functional unit is accessible via its own hinged door
- 3 or 4 pole feeder units
- For fixed plug in or withdrawable breakers
- Suitable for switchgear with remote operation
- To be operated from behind the door or with door-coupling rotary handle
- Dropper bars from 800 to 1600 A are possible
- Equipment mounting plates for additional electicaly devices like contactors, colis, MCB's,...
- IP31/55
- Form 4

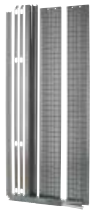
Notes

Frame comes with a blue design strip.
Doors include locking system for 3 mm two-way key bit.
Where cover plates in several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
For flanges, clip-down handle, lifting eyebolts, 180° hinges, fixing brackets, Durostone posts, connection kits, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

xEnergy Main Switchboards

Box solution, Power distribution and Motor Control Center for fixed installation, with cable area - (Section depth 600 mm)

vt26617



VT25109



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Section depth mm	Section width mm	Module width mm	Cable area width mm	Fitting kit for box solution incl. 4th pillar for frame Article No. per unit	Partition connection area/dropper bus bar Article No. per unit	Partition connection area/HSS Article No. per unit
600	800	425	400	**XSMFDB0606-BS-N** 193142 125971*	**XPFCD2006** 284132	**XPFCB04** 284119
		600	200	**XSMFDB0606-BS-N** 193142 125971*	**XPFCD2006** 284132	**XPFCB02** 284745
	1000	600	400	**XSMFDB0606-BS-N** 193142 125971*	**XPFCD2006** 284132	**XPFCB04** 284119
	1200	425	800	**XSMFDB0606-BS-N** 193142 125971*	**XPFCD2006** 284132	**XPFCB08/10** 110266
		600	600	**XSMFDB0606-BS-N** 193142 125971*	**XPFCD2006** 284132	**XPFCB06** 284746
		800	400	**XSMFDB0606-BS-N** 193142 125971*	**XPFCD2006** 284132	**XPFCB04** 284119

Note * Finish in special RAL colour

Box solution, Power distribution and Motor Control Center for fixed installation, with cable area - (Section depth 600 mm)

vt26017	wa_vt58813	wa_vt59013	VT00412	wa_vt69913	wa_vt70013	wa_vt72913	wa_vt70213	vt24517
								
Horizontal Partition switchgear area/switchgear area	Support for dropper busbar	Extention bracket dropper bus bar	Extention bracket to lowest position of dropper bus bar support	Angle bracket for PE or PEN in connection area	Angle bracket for N+PEN in connection area	Mounting plates	Box solution doors doors to device area	Front Filler IP31 top and bottom cover
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XPFMMR04-BF 193111	see page xx	-	-	**XDSFP** 283895	**XDSFN** 283894	see page xx	see page xx	**XSMRF-BF-04-31** in preparation
XPFMMR06-BF 192705	see page xx	**XDB06** 283885	**XDB06E** 166745	**XDSFP** 283895	**XDSFN** 283894	see page xx	see page xx	**XSMRF-BF-06-31** 192701
XPFMMR06-BF 192705	see page xx	**XDB06** 283885	**XDB06E** 166745	**XDSFP** 283895	**XDSFN** 283894	see page xx	see page xx	**XSMRF-BF-06-31** 192701
XPFMMR04-BF 193111	see page xx	**XDB08** 192696	**XDB06E** 166745	**XDSFP** 283895	**XDSFN** 283894	see page xx	see page xx	**XSMRF-BF-04-31** in preparation
XPFMMR06-BF 192705	see page xx	**XDB06** 283885	**XDB06E** 166745	**XDSFP** 283895	**XDSFN** 283894	see page xx	see page xx	**XSMRF-BF-06-31** 192701
XPFMMR08-BF 192706	see page xx	**XDB08** 192696	**XDB08E** 192697	**XDSFP** 283895	**XDSFN** 283894	see page xx	see page xx	**XSMRF-BF-08-31** 192702

xEnergy Main Switchboards

Box solution, Power distribution and Motor Control Center for fixed installation, with cable area - (Section depth 600 mm)













Front Filler IP42/55 top and bottom cover	Door to connection area IP55	Door to connection area left IP31	Door to connection area right IP31	Door to connection area left IP42	Door to connection area right IP42	Verticaly partition section/section (only suitable for XF sections)
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSMRF-BF-04-55 193113	**XSDFC-20/0375** 193094	**XSDFV3L-20/0375** 193095	**XSDFV3R-20/0375** 193096	**XSDFV4L-20/0375** 193097	**XSDFV4R-20/0375** 193098	**XPSS2006-BF** 192707
XSMRF-BF-06-55 192703	**XSDFC-20/02** 193091	**XSDFV3L-20/02** 193092	**XSDFV3R-20/02** 193093	**XSDFC-20/02** 193091	**XSDFC-20/02** 193091	**XPSS2006-BF** 192707
XSMRF-BF-06-55 192703	**XSDFMC2004** 284184	**XSDFMLV2004** 284188	**XSDFMRV2004** 284190	**XSDFMLV42004** 178332	**XSDFMRV42004** 178325	**XPSS2006-BF** 192707
XSMRF-BF-04-55 193113	**XSDFC-20/08** 193104	**XSDFV3L-20/08** 193105	**XSDFV3R-20/08** 193106	**XSDFV4L-20/08** 193107	**XSDFV4R-20/08** 193108	**XPSS2006-BF** 192707
XSMRF-BF-06-55 192703	**XSDFC-20/06** 193099	**XSDFV3L-20/06** 193100	**XSDFV3R-20/06** 193101	**XSDFV4L-20/06** 193102	**XSDFV4R-20/06** 193103	**XPSS2006-BF** 192707
XSMRF-BF-08-55 192704	**XSDFMC2004** 284184	**XSDFMLV2004** 284188	**XSDFMRV2004** 284190	**XSDFMLV42004** 178332	**XSDFMRV42004** 178325	**XPSS2006-BF** 192707

xEnergy Main Switchboards

Box solution, Power distribution and Motor Control Center for fixed installation, with cable area - (Section depth 800 mm)

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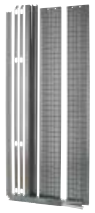

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Section depth mm	Section width mm	Module width mm	Cable area width mm	Fitting kit for box solution incl. 4th pillar for frame Article No. per unit	Partition connection area/dropper bus bar Article No. per unit	Partition connection area/HSS Article No. per unit
800	800	425	400	**XSMFDB0608-BS-350-N** 193144 186678*	**XPFCD2008** 284133	**XPFCB04** 284119
		600	200	**XSMFDB0608-BS-350-N** 193144 186678*	**XPFCD2008** 284133	**XPFCB02** 284745
	1000	600	400	**XSMFDB0608-BS-350-N** 193144 186678*	**XPFCD2008** 284133	**XPFCB04** 284119
	1200	425	800	**XSMFDB0608-BS-350-N** 193144 186678*	**XPFCD2008** 284133	**XPFCB08/10** 110266
		600	600	**XSMFDB0608-BS-350-N** 193144 186678*	**XPFCD2008** 284133	**XPFCB06** 284746
		800	400	**XSMFDB0608-BS-350-N** 193144 186678*	**XPFCD2008** 284133	**XPFCB04** 284119

Note * Finish in special RAL colour

Box solution, Power distribution and Motor Control Center for fixed installation, with cable area - (Section depth 800 mm)

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wa_vt59013



VT00412



wa_vt69913



wa_vt70013



wa_vt72913



wa_vt70213



vt24517



Horizontal Partition switchgear area/switchgear area	Support for dropper busbar	Extention bracket dropper bus bar	Extention bracket to lowest position of dropper bus bar support	Angle bracket for PE or PEN in connection area	Angle bracket for N+PEN in connection area	Mounting plates	Box solution doors doors to device area	Front Filler IP31 top and bottom cover
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XPFMMR04-BF 193111	see page xx	-	-	**XDSFP** 283895	**XDSFN** 283894	see page xx	see page xx	**XSMRF-BF-04-31** in preparation
XPFMMR06-BF 192705	see page xx	**XDB06** 283885	**XDB06E** 166745	**XDSFP** 283895	**XDSFN** 283894	see page xx	see page xx	**XSMRF-BF-06-31** 192701
XPFMMR06-BF 192705	see page xx	**XDB06** 283885	**XDB06E** 166745	**XDSFP** 283895	**XDSFN** 283894	see page xx	see page xx	**XSMRF-BF-06-31** 192701
XPFMMR04-BF 193111	see page xx	**XDB08** 192696	**XDB06E** 166745	**XDSFP** 283895	**XDSFN** 283894	see page xx	see page xx	**XSMRF-BF-04-31** in preparation
XPFMMR06-BF 192705	see page xx	**XDB06** 283885	**XDB06E** 166745	**XDSFP** 283895	**XDSFN** 283894	see page xx	see page xx	**XSMRF-BF-06-31** 192701
XPFMMR08-BF 192706	see page xx	**XDB08** 192696	**XDB08E** 192697	**XDSFP** 283895	**XDSFN** 283894	see page xx	see page xx	**XSMRF-BF-08-31** 192702

xEnergy Main Switchboards

Box solution, Power distribution and Motor Control Center for fixed installation, with cable area - (Section depth 800 mm)

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wa_vt34213



wa_vt65013



vt31715



vt31915



vt26517



Front Filler IP42/55 top and bottom cover	Door to connection area IP55	Door to connection area left IP31	Door to connection area right IP31	Door to connection area left IP42	Door to connection area right IP42	Verticaly partition section/section (only suitable for XF sections)
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSMRF-BF-04-55 193113	**XSDFC-20/0375** 193094	**XSDFV3L-20/0375** 193095	**XSDFV3R-20/0375** 193096	**XSDFV4L-20/0375** 193097	**XSDFV4R-20/0375** 193098	**XPSS2006-BF** 192707
XSMRF-BF-06-55 192703	**XSDFC-20/02** 193091	**XSDFV3L-20/02** 193092	**XSDFV3R-20/02** 193093	**XSDFC-20/02** 193091	**XSDFC-20/02** 193091	**XPSS2006-BF** 192707
XSMRF-BF-06-55 192703	**XSDFMC2004** 284184	**XSDFMLV2004** 284188	**XSDFMRV2004** 284190	**XSDFMLV42004** 178332	**XSDFMRV42004** 178325	**XPSS2006-BF** 192707
XSMRF-BF-04-55 193113	**XSDFC-20/08** 193104	**XSDFV3L-20/08** 193105	**XSDFV3R-20/08** 193106	**XSDFV4L-20/08** 193107	**XSDFV4R-20/08** 193108	**XPSS2006-BF** 192707
XSMRF-BF-06-55 192703	**XSDFC-20/06** 193099	**XSDFV3L-20/06** 193100	**XSDFV3R-20/06** 193101	**XSDFV4L-20/06** 193102	**XSDFV4R-20/06** 193103	**XPSS2006-BF** 192707
XSMRF-BF-08-55 192704	**XSDFMC2004** 284184	**XSDFMLV2004** 284188	**XSDFMRV2004** 284190	**XSDFMLV42004** 178332	**XSDFMRV42004** 178325	**XPSS2006-BF** 192707

xEnergy Main Switchboards

Box solution Power distribution and Motor Control Center for fixed installation, without cable area

vt26617



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Section depth mm	Section width mm	Module width mm	Fitting kit for box solution incl. 4th pillar for frame Article No. per unit	Horizontal partition switchgear/switchgear Article No. per unit
600	425	400	**XSMFDB0606-BS-2** 168934 186676*	**XPFMMR04-BF** 193111
	600	600	**XSMFDB0606-BS-2** 168934 186676*	**XPFMMR06-BF** 192705
	800	800	**XSMFDB0606-BS-2** 168934 186676*	**XPFMMR08-BF** 192706
800	425	400	**XSMFDB0608-BS-2-350** 168935 186677*	**XPFMMR04-BF** 193111
	600	600	**XSMFDB0608-BS-2-350** 168935 186677*	**XPFMMR06-BF** 192705
	800	800	**XSMFDB0608-BS-2-350** 168935 186677*	**XPFMMR08-BF** 192706

Note * Finish in special RAL colour

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wa_vt59013



VT00412



wa_vt72913

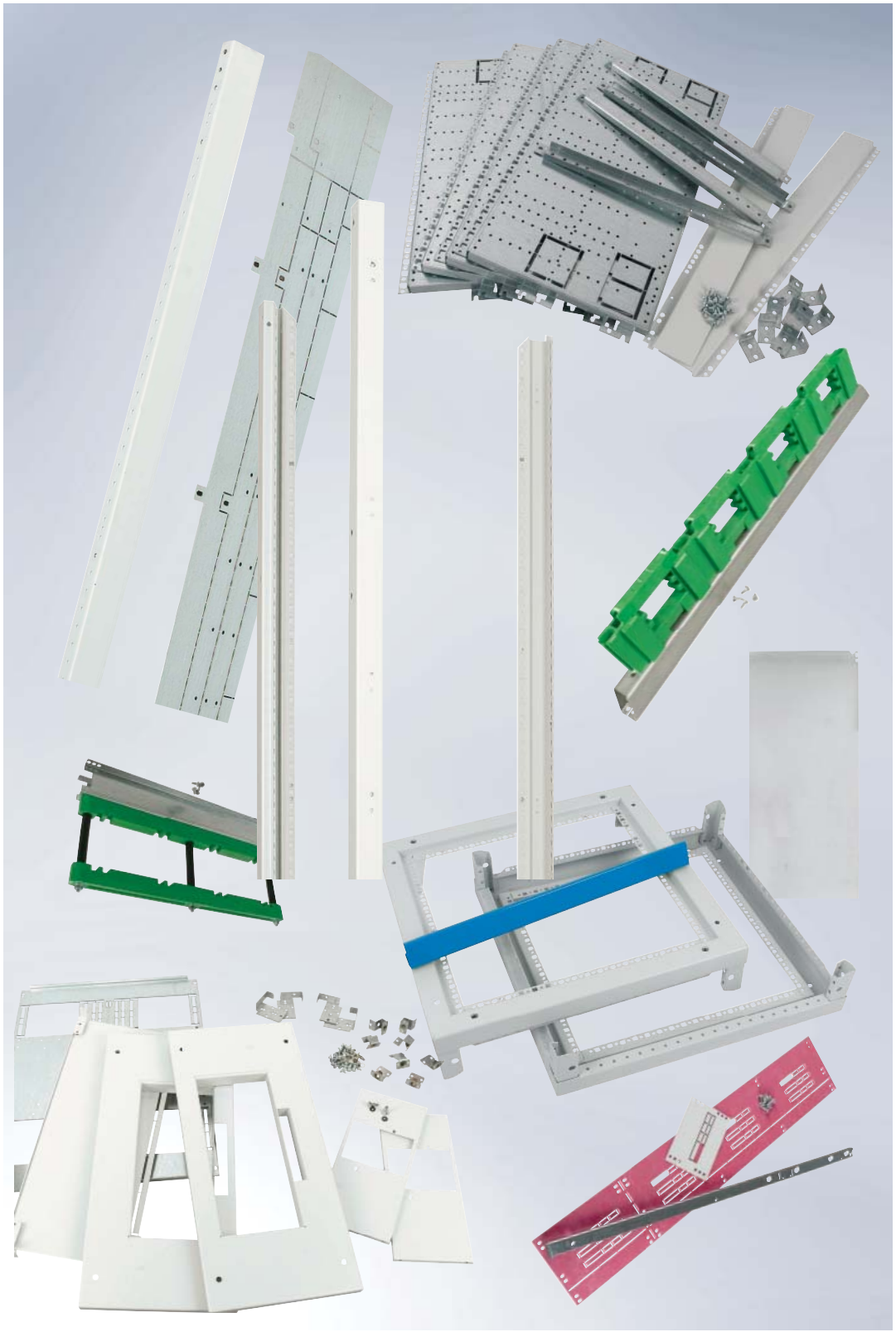


wa_vt70213



Support for dropper busbar	Extention bracket dropper bus bar	Extention bracket to lowest position of dropper bus bar support	Mounting plates	Box solution doors doors to device area
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
see page xx	-	-	see page xx	see page xx
see page xx	**XDB06** 283885	**XDB06E** 166745	see page xx	see page xx
see page xx	**XDB08** 192696	**XDB08E** 192697	see page xx	see page xx
see page xx	-	-	see page xx	see page xx
see page xx	**XDB06** 283885	**XDB06E** 166745	see page xx	see page xx
see page xx	**XDB08** 192696	**XDB08E** 192697	see page xx	see page xx

Box solution components



Accessories

Fitting kits, vertical profile

VT19809



VT10109



Section depth mm	Fitting kits box solution suitable for 400/600 mm module width depth = 275 mm Form 4 Article No. per unit unit = 1 set	Fitting kits box solution suitable for 400/600 mm module width depth = 475 mm Form 4 Article No. per unit unit = 1 set	Fitting kits box solution suitable for 400/600 mm module width depth = 275 mm ohne Kabelraum Form 4 Article No. per unit unit = 1 set	Fitting kits box solution suitable for 400/600 mm module width depth = 475 mm ohne Kabelraum Form 4 Article No. per unit unit = 1 set	Vertical profile for box solution, only 1 pillar Article No. per unit unit = 1 pc.
600	**XSMFDB0606-BS-N** 193142 125971*	-	**XSMFDB0606-BS-2** 168934 186676*	-	**XSFH20-1** 109254 122585*
800	**XSMFDB0608-BS-N** 193143 125972*	**XSMFDB0608-BS-350-N** 193144 186678*	-	**XSMFDB0608-2-350** 168935 186677*	

Accessories for Outgoing Sections

Partitions for internal separation

VT25109



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wa_vt57913



Section depth mm	Form 2/4 Partition connection area/dropper bar area Article No. per unit unit = 1 set	Module width mm	Form 4 Partition switchgear area/switchgear area Article No. per unit unit = 1 set	Cable area width mm	Form 2/4 Connection area/drop-per bar area in the widths of 200/400/600 Article No. per unit unit = 1 set	Form 4 Closing strip switchgear area/connection area L = 650 mm Article No. per unit unit = 1 set
600	**XPFCD2006** 284132	425	**XPFMMR04-BF** 193111	200	**XPFCB02** 284745	**XPFMC** 284146
800	**XPFCD2008** 284133	600	**XPFMMR06-BF** 192705	400	**XPFCB04** 284119	
		800	**XPFMMR08-BF** 192706	600	**XPFCB06** 284746	
				800	**XPFCBA08** 172180	

Note * Finish in special RAL colour

Dropper Bars up to 1600 A for Outgoing Sections, Fitting Kits

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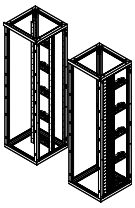


Features:
- 800 – 1600 A
- TN-C, TN-C-S, TN-S, IT, TT
- I_{cw} (1 s) up to 50 kA[1)]

wa_vt58813



wa_vt58913



Angle bracket for N and PEN in the cable connection area

wa_vt69913



wa_vt70013



I_e A	Busbar cross-sections L1, L2, L3, full N mm²	PE, PEN mm²	Type of Busbar support 3 poles L1, L2, L3, or 4 poles L1, L2, L3, N Article No. per unit	Type of Busbar support End support at the bottom Article No. per unit	Type of Support for conductor in connection area[1)] PE or PEN Article No. per unit	Type of Support for conductor in connection area[1)] N+PEN Article No. per unit
Dropper bars on the side, center-to-center phase distance 60 mm						
800	2 x 20 x 10	1 x 20 x 10	**XDSF08** 283888	**XDSF08E** 283889	**XDSFP** 283895	**XDSFN** 283894
1250	2 x 40 x 10	1 x 40 x 10	**XDSF12** 283890	**XDSF12E** 283891	**XDSFP** 283895	**XDSFN** 283894
1600	2 x 60 x 10	1 x 60 x 10	**XDSF16** 283892	**XDSF16E** 283893	**XDSFP** 283895	**XDSFN** 283894

Extension bracket

wa_vt59013



VT00412



Module width mm	Type of Extension bracket for busbar support XDSF... for rear-mounted dropper bars Article No. per unit	Type of Extension bracket for busbar support (strong design for lowest position) Article No. per unit
425	**not required**	**not required**
600	**XDB06** 283885	**XADB06E** 166745
800	**XDB08** 192696	**XADB08E** 192697

Note [1)] Also suitable for mounting cable ducts, auxiliary busbars etc.

Box solution snap-on covers

- IP55 closed
- Covers for combined section set-ups (switchgear area + cable-connection area), as well as for panels without connection area

vt24817



Cover height mm	Cover width 425 mm	Cover width 600 mm	Cover width 800 mm
	Article No. per unit	Article No. per unit	Article No. per unit
50	**XMC-0204** in preparation	**XMC-0206** 192652	**XMC-0208** 192653
100	**XMC-0404** in preparation	**XMC-0406** 192654	**XMC-0408** 192655

Box solution doors IP55

- IP55 closed
- Doors suitable for combined section set-ups (switchgear area + cable-connection area), as well as for panels without connection area
- Both left and right hand hinges possible
- No cut-outs for rotary drives

VT22109



Door height	Door width 425 mm Article No. per unit	Door width 600 mm Article No. per unit	Door width 800 mm Article No. per unit
150	**XSDMC-0604** 193277	**XSDMC-0606** 192624	**XSDMC-0608** 192625
200	**XSDMC-0804** 192845	**XSDMC-0806** 192626	**XSDMC-0808** 192627
250	**XSDMC-1004** 192846	**XSDMC-1006** 192628	**XSDMC-1008** 192629
300	**XSDMC-1204** 192847	**XSDMC-1206** 192630	**XSDMC-1208** 192631
350	**XSDMC-1404** 193278	**XSDMC-1406** 192632	**XSDMC-1408** 192633
400	**XSDMC-1604** 193279	**XSDMC-1606** 192634	**XSDMC-1608** 192635
450	**XSDMC-1804** 193280	**XSDMC-1806** 192636	**XSDMC-1808** 192637
500	**XSDMC-2004** 193281	**XSDMC-2006** 192638	**XSDMC-2008** 192639
600	**XSDMC-2404** 192848	**XSDMC-2406** 192640	**XSDMC-2408** 192641
800	**XSDMC-3204** 192849	**XSDMC-3206** 192642	**XSDMC-3208** 192643
1000	**XSDMC-4004** 192850	**XSDMC-4006** 192644	**XSDMC-4008** 192645
1200	**XSDMC-4804** 192851	**XSDMC-4806** 192646	**XSDMC-4808** 192647
1400	**XSDMC-5604** 192852	**XSDMC-5606** 192648	**XSDMC-5608** 192649
1600	**XSDMC-6404** 192853	**XSDMC-6406** 192650	**XSDMC-6408** 192651

Box solution doors IP31

- IP31 ventilated
- Door/compartment sizes based on MCCB frame sizes
- All IP31 doors come with pre-cut mounting holes for MCCB rotary handles
- Doors suitable for combined section set-ups (switchgear area + cable-connection area), as well as for panels without connection area
- Dual, 1/2 width modules, include a central partition
- Hinges are available on left side only
- No mirror set-up possible with IP31 (ventilated doors)
- Outgoing cable area is always on the right

Only 3-pole switchgear is possible

	MCCB Frame size NZM1		MCCB Frame size NZM2		MCCB Frame size NZM3 suitable up to 400 A		MCCB Frame size NZM3 suitable for the 400-630 A solution			MCCB Frame size NZM4
	Door height 150 mm	Door height 200 mm	Door height 200 mm	Door height 300 mm	Door height 250 mm	Door height 300 mm	Door height 350 mm	Door height 500 mm	Door height 600 mm	Door height 450 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
Module width 425 Single module Fixed design	XSMV-130804-BF in preparation	XSDMV-230804-BF in preparation	-	-	-	-	-	-	-	-
Module width 425 Single module Plug-in design	-	-	-	-	-	-	-	-	-	-
Module width 425 Double module Fixed design	XSDMV-130804-BF-PI in preparation	XSDMV-230804-BF-PI in preparation	-	-	-	-	-	-	-	-
Module width 425 Double module Plug-in design	-	-	-	-	-	-	-	-	-	-
Module width 600 Single module Fixed design	XSDMV-130806-BF in preparation	-	-	-	-	-	-	-	-	-
Module width 600 Single module Plug-in design	XSDMV-130806-BF-PI in preparation	-	-	-	-	-	-	-	-	-
Module width 600 Double module Fixed design	-	-	-	-	-	-	-	-	-	-
Module width 600 Double module Plug-in design	-	-	-	-	-	-	-	-	-	-
Module width 800 Single module Fixed design	-	-	-	-	-	-	-	-	-	-
Module width 800 Single module Plug-in design	-	-	-	-	-	-	-	-	-	-
Module width 800 Double module Fixed design	-	-	-	-	-	-	-	-	-	-
Module width 800 Double module Plug-in design	-	-	-	-	-	-	-	-	-	-

Box solution doors IP31

- IP31 ventilated
- Door/compartment sizes based on MCCB frame sizes
- All IP31 doors come with pre-cut mounting holes for MCCB rotary handles
- Doors suitable for combined section set-ups (switchgear area + cable-connection area), as well as for panels without connection area
- Dual, 1/2 width modules, include a central partition
- Hinges are available on left side only
- No mirror set-up possible with IP31 (ventilated doors)
- Outgoing cable area is always on the right

3- and 4-pole switchgear are possible

vt24617



vt24417



	MCCB Frame size NZM1		MCCB Frame size NZM2		MCCB Frame size NZM3 suitable up to 400 A		MCCB Frame size NZM3 suitable for the 400-630 A solution			MCCB Frame size NZM4
	Door height 150 mm	Door height 200 mm	Door height 200 mm	Door height 300 mm	Door height 250 mm	Door height 300 mm	Door height 350 mm	Door height 500 mm	Door height 600 mm	Door height 450 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
Module width 425 Single module Fixed design	-	**XSDMV-130804-BF** 193119	**XSDMV-230804-BF** 193120	**XSDMV-241204-BF** 193121	-	-	-	-	**XSDMV-342404-BF** 193122	-
Module width 425 Single module Plug-in design	-	**XSDMV-130804-BF-PI** 193127	**XSDMV-230804-BF-PI** 193128	**XSDMV-241204-BF-PI** 193129	-	-	-	-	**XSDMV-342404-BF-PI** 193130	-
Module width 600 Single module Fixed design	-	**XSDMV-130806-BF** 193123	**XSDMV-240806-BF** 192724	**XSDMV-241206-BF** 193124	**XSDMV-341006-BF-400** 192616	**XSDMV-341206-BF** 193125	**XSDMV-341406-BF-630** 192619	**XSDMV-342006-BF** 193126	-	-
Module width 600 Single module Plug-in design	-	**XSDMV-130806-BF-PI** 193131	**XSDMV-240806-BF-PI** 192610	**XSDMV-241206-BF-PI** 193132	**XSDMV-341006-BF-400-PI** 192617	**XSDMV-341206-BF-PI** 193133	-	**XSDMV-342006-BF-PI** 193134	-	-
Module width 600 Double module Fixed design	**XSDMV-140606-BF-2** 192720	-	**XSDMV-240806-BF-2** 192613	-	-	-	-	-	-	-
Module width 600 Double module Plug-in design	**XSDMV-140606-BF-2-PI** 192721	-	-	-	-	-	-	-	-	-
Module width 800 Single module Fixed design	-	-	**XSDMV-240808-BF** 192611	-	**XSDMV-341008-BF-400** 192618	-	**XSDMV-341408-BF-630** 192620	-	-	**XSDMV-441808-BF** 192622
Module width 800 Single module Plug-in design	-	-	**XSDMV-240808-BF-PI** 192612	-	**XSDMV-341008-BF-400-PI** 192621	-	-	-	-	-
Module width 800 Double module Fixed design	**XSDMV-140608-BF-2** 192722	-	**XSDMV-240808-BF-2** 192614	-	-	-	-	-	-	-
Module width 800 Double module Plug-in design	**XSDMV-140608-BF-2-PI** 192723	-	**XSDMV-240808-BF-2-PI** 192615	-	-	-	-	-	-	-

Cover plates for rotary-drive punch holes

- Cover plate for the rotary handle mounting holes when rotary handle is not fitted
- To be used when only 1 MCCB is fitted in a dual (1/2 width) module is used and the second module is empty. Or for use in empty spare modules are fitted
- Suitable for NZM1, NZM2 and NZM3

Cover Plate (blind plate)	Article No. per unit
XAS-BF	192623

Mounting Plates for Box Solution

Articles highlighted in yellow are BF modules (British standard)
Rules for yellow marked articles:
- Doors are only available for IP31
- The matching module doors (IP31) can be fitted on the left side only
- Module doors come with pre-cut holes for rotary drives
- Outgoing cable area is always on the right
- Double modules are fitted left/right, with a central lock
- Can be equipped with Form 4b type 6/7 partitions
- Mounting plates for frame size 1-3 of the NZM series is suitable for both the fixed and the plug-in design
- Option to install a neutral conductor (3P+N)
- 3 or 4 poles, or 3P+N possible
- Comes with all the installation holes necessary for fixed or plug in option
- Includes all fixing brackets and screws
- All MCCBs are mounted horizontally with the exception of the NZM4 mounted vertically

Rules for articles without color marks:
- Doors are only available in IP55 (closed version)
- Door can be hinged left or right
- Doors without cut out's
- Outgoing cable area is choosable, left or right
- Mounting plates are equipped with different mounting holes depending on the version. Please refer to the respective item description (footnote) for the functions integrated in each module.
- Includes all fixing brackets and screws

vt25117



	MCCB Frame size NZM1		MCCB Frame size NZM2		MCCB Frame size NZM3 up to 400 A	MCCB Frame size NZM3 up to 630 A				MCCB Frame size NZM4
	Module height 150 mm	Module height 200 mm	Module height 200 mm	Module height 300 mm	Module height 250 mm	Module height 300 mm	Module height 350 mm	Module height 500 mm	Module height 600 mm	Module height 450 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
Module width 425 Single module	-	[3] XMN130804M-BS 125973	[1] XMN230804M-BS 125974	[2] XMN241204M-BS 125975	-	-	-	-	[5] XMN342404M-BS 125976	-
Module width 425 Double module	-	-	-	-	-	-	-	-	-	-
Module width 600 Single module	-	[3] XMN130806M-BS 125977	[4] XMN240806-BF 192711	[4] XMN241206M-BS 125979	[4] XMN341006-400-BF 192715	[4] XMN341206M-F-BS 125980	[4] XMN341406-630-BF 192717	[5] XMN3412006M-W-BS 125981	[5] XMN342006M-W-BS 125982	-
Module width 600 Double module	[4] XMN140606-BF-2 192709	-	[4] XMN240806-BF-2 192713	-	-	-	-	-	-	-
Module width 800 Single module	-	-	[4] XMN240808-BF 192712	-	[4] XMN341008-400-BF 192716	[4] XMN341408-630-BF 192718	-	-	-	[4] XMN441808-630-BF 192719
Module width 800 Double module	[4] XMN140608-BF-2 192710	-	[4] XMN240808-BF-2 192714	-	-	-	-	-	-	-

1) 3-poles, fixed
2) 3+4-poles, fixed
3) 3+4-poles, fixed, Plug-In module
4) 3+4/3P+N-poles, Fixed design, Plug-In module
5) 3+4/3P+N-poles, Fixed design, Plug-In module, withdrawable

. . . also for use in the Main Bus Bar Top (BXT) system

Undrilled component mounting plates to mount user specific items für Box-Solution

- Includes fastening material (screws and fastening brackets)

wa_vt33513



Module height mm	Width 425 mm	Width 600 mm	Width 800 mm
	Article No. per unit	Article No. per unit	Article No. per unit
50	**XME0204M** 283923	**XME0206M** 283925	-
100	**XME0404M** 283929	**XME0406M** 283933	**XME0408M** 285689
150	**XME0604M** 284727	**XME0606M** 284728	**XME0608M** 285690
200	**XME0804M** 283941	**XME0806M** 283945	**XME0808M** 285691
250	**XME1004M** 144585	**XME1006M** 144586	**XME1208M** 171728
300	**XME1204M** 285684	**XME1206M** 285686	**XME1208M** 285692
350	**XME1404M-1** 110333	**XME1406M** 171724	**XME1408M** 171729
400	**XME1604M** 283949	**XME1606M** 283951	**XME1608M** 285693
500	**XME2004M-1** 110331	**XME2006M** 171725	**XME2008M** 171730
600	**XME2404M** 285685	**XME2406M** 285687	**XME2408M** 285694
800	-	**XME3206M** 126010	**XME3208M** 171731
1000	-	**XME4006M** 171726	**XME4008M** 171732
1200	-	**XME4806M** 171727	**XME4808M** 171733
1400	-	-	-
1600	-	-	-

Accessories

Cover panels for module cable entry

- Can be used instead of closing strips (XPFMC/284146)
- Cover plates of 150-450 mm height are available; larger modules require the combination of two or more cover plates
- Double modules require two cover plates, one each for left and right

vt25517



Module height mm	Cover panels for module cable entry Article No. per unit
150	**XPCS06** 192666
200	**XPCS08** 192667
250	**XPCS10** 192668
350	**XPCS14** 192669
400	**XPCS18** 192670

Protective covers for feeder copper

- Serve as partition between the feeder coppers that lead from the main busbar to the switch
- Includes screws

vt25917



MCCB Frame size	Single module Article No. per unit	Double module Article No. per unit
NZM1	**XPFMC1-S** 192671	**XPFMC1-2** 192672
NZM2	**XPFMC2-S** 192673	**XPFMC2-2** 192674
NZM3	**XPFMC3-S** 192675	-
NZM4	**XPFMC4-S** 192677	-

Cover for neutral-conductor version

- Finger-safe protective cover for the neutral-conductor version
- Suitable for single and double modules
- Double modules require two protective covers each
- Includes screws

vt25717



MCCB Frame size	Cover for neutral-conductor version Article No. per unit
NZM1	**XDN-NZM1-BF-S** 192678
NZM2	**XDN-NZM2-BF-S** 192676
NZM3	**XDN-NZM3-BF-S** 192681
NZM4	**XDN-NZM4-BF-S** 192682

End caps for neutral-conductor version

- The end cap also covers the terminal point
- Not required for type 6/7 set-up

vt25617



MCCB Frame size	End caps for neutral-conductor version Article No. per unit
NZM1	**XDN-NZM1-BF-E** 192683
NZM2	**XDN-NZM2-BF-E** 192684
NZM3	**XDN-NZM1-BF-E** 192685

Accessories

Partition/cover for type 6/7 set-up

- Creates an additional termination area that is separated from all other functional areas in the module
- Suitable for single and double modules
- Double modules require two protective covers each
- Includes screws

vt25417



MCCB Frame size	Partition/cover for type 6/7 set-up Article No. per unit
NZM1	**XPCMCV1** 192686
NZM2	**XPCMCV2** 192687
NZM3 up to 400 A	**XPCMCV3-400** 192688
NZM3 up to 630 A	**XPCMCV3-630** 192689
NZM4	**XPCMCV3** 192690

Copper connection piece

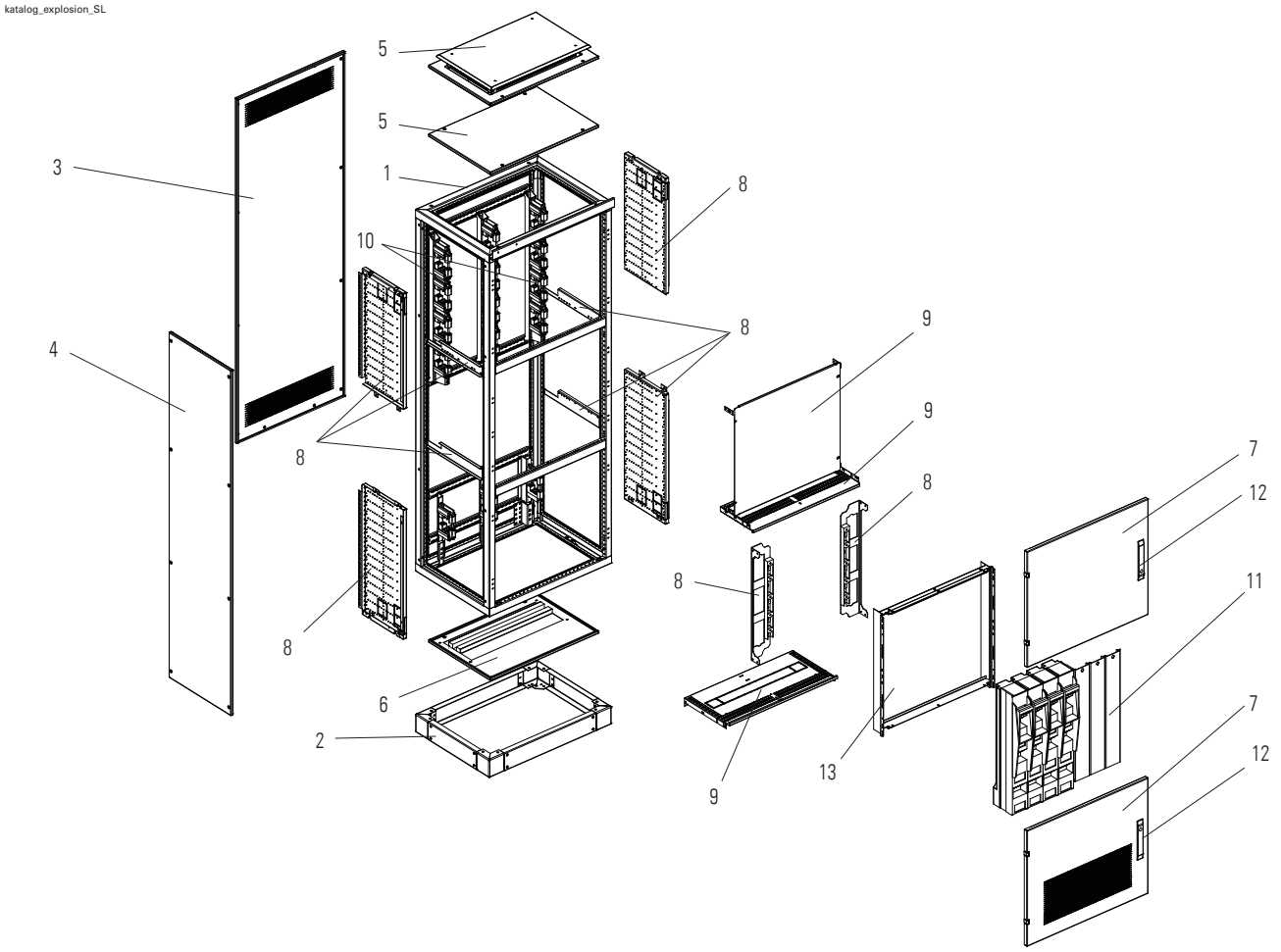
- Facilitates the connection of the Cu-bars/cables
- For NZM3 = connection enlargement/sub-sections

MCCB Frame size	Incoming side dropper bar Article No. per unit	Outgoing side cable connection Article No. per unit
NZM1	**XNNC-NZM1-I** 192691	**XNNC-NZM1-O** 192693
NZM2	**XNNC-NZM2-I** 192692	**XNNC-NZM2-O** 192694
NZM3 up to 630 A	-	**XNNC-NZM3-O** 192695

Notes

Description

katalog_explosion_SL



1 Frame
2 Plinth
3 Rear panel
4 Side panel
5 Top panel
6 Bottom panel
7 Door
8 Fitting kit for SL fuse strips
9 Separation/Separation panels
10 Main busbar support
11 Empty space cover
12 Lock mechanism
13 Cover frame

Features

- Widths of 600/800/1000 mm
- Dropper bars stackable
- Dropper bars from 800 to 3200A
- Vertical position of fuse strips
- Form 3
- IP31/IP42/IP55
- Operation from outside or behind the door
- Outgoers are possible up and downwards

Notes

Frame comes with a blue design strip.

Doors include locking system for 3 mm two-way key bit.

Where cover plates in several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.

You can use fuse strips from: EATON-Serie NHW-SLS and Serie FCF..

For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durostone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

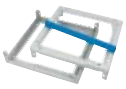
xEnergy Main Switchboards

Outgoing sections for fuse strips, Main Busbars rear-mounted (HSS)

VT56213



wa_vt28313



VT10109



wa_vt68713



Section depth mm	Section width mm	Switchgear area width suitable for carrying equipment mm	Frame Article No. per unit	Vertical profile Article No. per unit	Cross-support for bar holder Article No. per unit
600	600	500	**XSFB0606** 284235 122278*	**XSFH20** 284245 122288*	**XBBB06** 283860
	800	700	**XSFB0806** 284238 122281*	**XSFH20** 284245 122288*	**XBBB08** 283861
	1000	900	**XSFB1006** 284241 122284*	**XSFH20** 284245 122288*	**XBBB10** 283862
800	600	500	**XSFB0608** 284236 122279*	**XSFH20** 284245 122288*	**XBBB06** 283860
	800	700	**XSFB0808** 284239 122282*	**XSFH20** 284245 122288*	**XBBB08** 283861
	1000	900	**XSFB1008** 284242 122285*	**XSFH20** 284245 122288*	**XBBB10** 283862

Note * Finish in special RAL colour

Outgoing sections for fuse strips, Main Busbars rear-mounted (HSS)

vt80215



Fitting kit for SL fuse strips

Article No.
per unit

wa_vt74413



Set of cover frames

Article No.
per unit

vt81315



Busbar holder
3 poles
Single copper
800-1600 A

Article No.
per unit

vt80815



Busbar holder
3 poles
Double copper
1600-3200 A

Article No.
per unit

vt81215



Offset mounting bracket
2 pcs. mounting bracket
incl. screw material

Article No.
per unit

VT21209



Partitions
separation panels

Article No.
per unit

wa_vt63313



Partitions
separation panels
with EVEN connection type

Article No.
per unit

XSMLV-I-D600 180574	**XSMLV-I-CH06** 143419 143555*	please refer to table below	please refer to table below	**XSMLV-I-CONNECT** 180576	**XPL06** 284161	**XPLB0606** 116456
XSMLV-I-D600 180574	**XSMLV-I-CH08** 143420 143556*	please refer to table below	please refer to table below	**XSMLV-I-CONNECT** 180576	**XPL08** 284162	**XPLB0806** 116457
XSMLV-I-D600 180574	**XSMLV-I-CH10** 143421 143557*	please refer to table below	please refer to table below	**XSMLV-I-CONNECT** 180576	**XPL10** 285500	**XPLB1006** 116458
XSMLV-I-D800 180575	**XSMLV-I-CH06** 143419 143555*	please refer to table below	please refer to table below	**XSMLV-I-CONNECT** 180576	**XPL0608** 126006	**XPLB0608** 124415
XSMLV-I-D800 180575	**XSMLV-I-CH08** 143420 143556*	please refer to table below	please refer to table below	**XSMLV-I-CONNECT** 180576	**XPL0808** 126007	**XPLB0808** 124416
XSMLV-I-D800 180575	**XSMLV-I-CH10** 143421 143557*	please refer to table below	please refer to table below	**XSMLV-I-CONNECT** 180576	**XPL1008** 126008	**XPLB1008** 124417

Note * Finish in special RAL colour

Dropper Bar Sets up to 3200 A, Double Bar

One set includes material for a support with double busbar system:
6x mounting brackets for rail support (for left and right mounting), 1 pc. busbar support, including screw material

vt80815



I_e A	Busbar cross-sections L1, L2, L3, full N mm²	PE, PEN mm²	Type Article No. 1 set
1600	2 x 40 x 10	1 x 40 x 10	**XDSF-16-SL-D** 180578
2000	2 x 60 x 10	1 x 60 x 10	**XDSF-20-SL-D** 180579
2500	2 x 80 x 10	1 x 80 x 10	**XDSF-25-SL-D** 180580
3200	2 x 100 x 10	1 x 100 x 10	**XDSF32-SL-D** 180581

Dropper Bar Sets up to 1600 A, Single Bar

One set includes material for a support with single rail system:
1 pc. mounting bracket for rail support, 1 pc. busbar support for single busbar up to 1600 A, including screw material

vt81315



I_e A	Busbar cross-sections L1, L2, L3, full N mm²	PE, PEN mm²	Type Article No. 1 set
Max. 1600	1 x 40 x 10 up to max. 1 x 100 x 10	1 x 40 x 10 up to max. 1 x 100 x 10	**XDSF16-SL-S** 180577

Busbar support for single busbars up to 1600 A

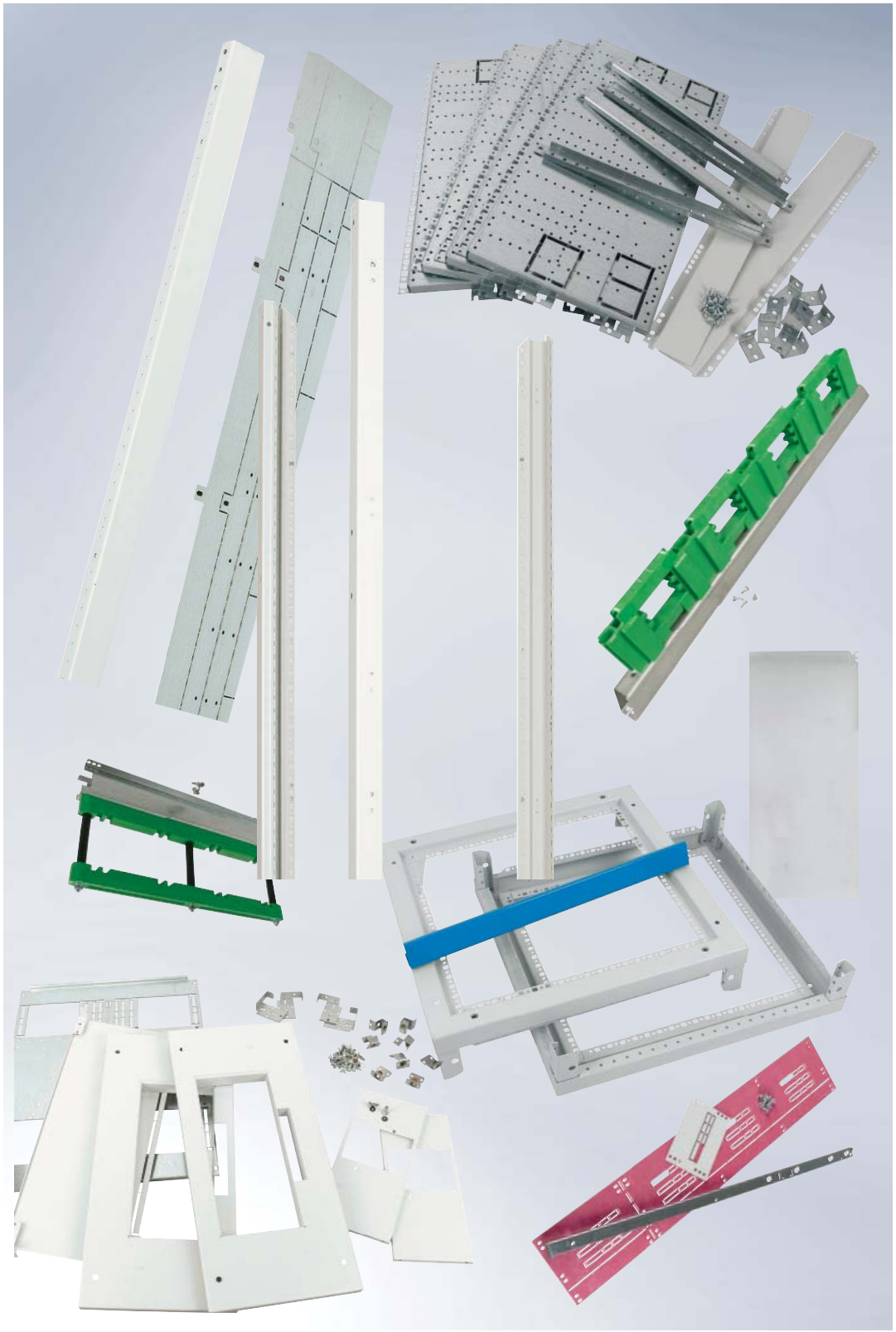
Incl.: 1 pc. Rail support and screw material

vt81415



I_e A	Busbar cross-sections L1, L2, L3, full N mm²	PE, PEN mm²	Type of Rail support Article No. 1 set
Max. 1600	1 x 40 x 10 up to max. 1 x 100 x 10	1 x 40 x 10 up to max. 1 x 100 x 10	**XDSLH** 182913

Components Fuse Switch Disconnectors - SL

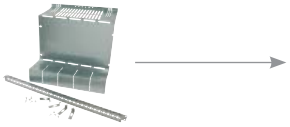


Accessories

Fitting kits, Blind frame kits, Offset mounting bracket

	wa_vt74413	vt80115	vt80215	vt81215
				
Section width mm	Blind frame kits for SL-sections suitable for fitting kits XSMLV	Fitting kit for fuse strips, for a section depth of 600 mm	Fitting kit for fuse strips, for a section depth of 800 mm	Offset mounting bracket 2 pcs. mounting bracket incl. screw material
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
600	**XSMLV-I-CH06** 143419 143555*	**XSMLV-I-D600** 180574	**XSMLV-I-D800** 180575	**XSMLV-I-CONNECT** 180576
800	**XSMLV-I-CH08** 143420 143556*	**XSMLV-I-D600** 180574	**XSMLV-I-D800** 180575	**XSMLV-I-CONNECT** 180576
1000	**XSMLV-I-CH10** 143421 143557*	**XSMLV-I-D600** 180574	**XSMLV-I-D800** 180575	**XSMLV-I-CONNECT** 180576

Accessories for outgoing sections SL: Partitioning panels

	VT21209		wa_vt63313		VT08506	VT08606	VT34210
							
Width mm	For SL section Section depth 600 mm	For SL section Section depth 800 mm	For SL section and SSL section vertical installation Section depth 600 mm EVEN type of connection	For SL section and SSL section vertical installation Section depth 800 mm EVEN type of connection	Empty-space covers suitable for all strip types/manufacturers W = 50 mm	Empty-space covers suitable for all strip types/manufacturers W = 100 mm	Cover profile in addition to SL empty-space cover (to close the gap between dropper bar and blind cover)
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 m
600	**XPL-06** 284161	**XPL0608** 126006	**XPLB0606** 116456	**XPLB0608** 124415	**XME0602CL** 289904	**XME0604CL** 289905	**XPLSTB-1000** 150540
800	**XPL-08** 284162	**XPL0808** 126007	**XPLB0806** 116457	**XPLB0808** 124416	**XME0602CL** 289904	**XME0604CL** 289905	**XPLSTB-1000** 150540
1000	**XPL-10** 285500	**XPL1008** 126008	**XPLB1006** 116458	**XPLB1008** 124417	**XME0602CL** 289904	**XME0604CL** 289905	**XPLSTB-1000** 150540

Note * Finish in special RAL colour

Fixing material for SL fuse strips

Hammer-head screw

- Hammer-head-screw - necessary for mounting the fuse switch disconnectors

VT28710



Size mm	Type Article No. per unit unit = 30 pcs.
12 x 66	**XNHKS-12X66** 144071
12 x 80	**XNHKS-12X80** 144072
12 x 100	**XNHKS-12X100** 144073
12 x 120	**XNHKS-12X120** 144074
12 x 155	**HK12155-H** 151282 (unit = 3 pcs.)

Washer M12

- Washer - necessary for fixing the hammer-head screw in the Cu-bar so as to make it easier to mount the fuse switch disconnectors

VT28810



Type Article No. per unit unit = 30 pcs.
XNHS-M12 144075

Accessories for 5000 A application with a section depth of 1000 mm

Additional partition for 5000 A systems

wa_vt71313



Section width mm	Partition extension for 5000 A systems busbar area/main busbar area Article No. per unit
600	**XPIBCB-H-06019** 150515
800	**XPIBCB-H-08019** 150516
1000	**XPIBCB-H-10019** 150518

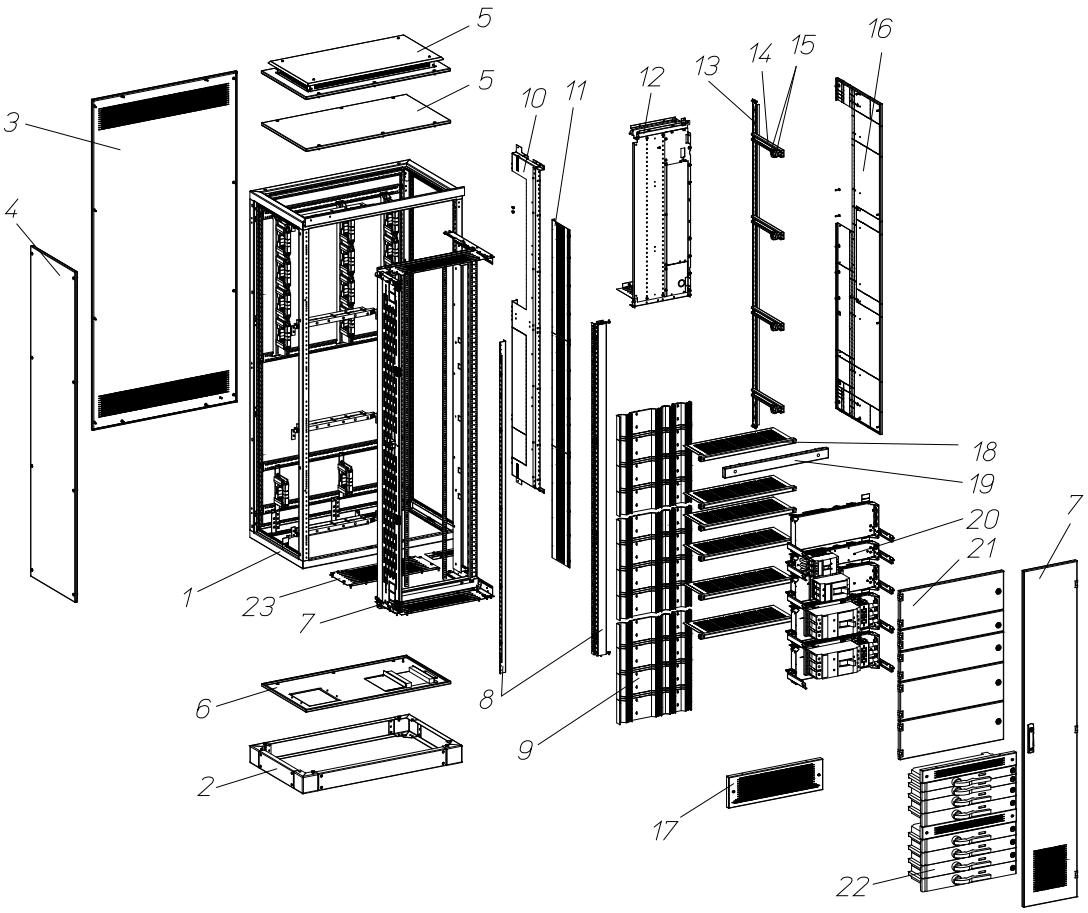
Table of Contents

XR = Outgoing sections in removable design

- Outgoing sections in removable plug-in design ..... Page xx
- Outgoing sections for switch-fuse units PIFT, vertical position ..... Page xx

Description

XR-mixed_expl



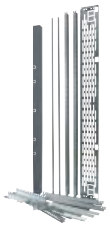
1 Frame
2 Plinth
3 Rear panel
4 Side panel
5 Top panel
6 Bottom panel
7 Fitting kit
8 Mounting frame
9 Partition dropper bar
10 Separation panel dropper bar/cable connection area
11 Cable insertion
12 Cover main busbar
13 Mounting profile as high as the section
14 Cable strain relief rail
15 Insulator N dropper bar
16 Separation panel between section/section

Features

- Widths of 800/1000/1200 mm
- Module width 600 mm
- 3 or 4 poles
- Form 2 to Form 4b / Type 7
- Shared door in Form 2
- Split door in Form 4
- IP31/IP42/IP55
- Circuit breakers of the NZM series
- Fuse-switch-disconnector QSA series
- Fuse-switch-disconnector PIFT series
- Circuit breaker modules can be combined
- Dropper bars selectable from 800 to 1600 A

Notes

Frame comes with a blue design strip.
Doors include locking system for 3 mm two-way key bit.
Where cover plates in several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
In order to ensure air circulation with IP31/42, a 100 mm high and ventilated front plate needs to be installed at the lowest point.
For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durostone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".


VT37216


VT16416


VT14716

Section depth mm	Section solution	Module width mm	Section width mm	Cable section width mm	Mounting frame consisting of 2 mounting side panels, 2 mounting profiles, holding and cross profiles, incl. all screws Article No. per unit	Set of partitions top/bottom Article No. per unit	Cover frame consisting of 2 side cover strips, 2 front elements, incl. all screws Article No. per unit
600	XR modules and PIFT 3+4 poles are possible, but PIFT without door	600	1000	400	**XSMRDB06** 184667	**XPRCSB06** 184718	**XSMRCF** 184669
			1200	600	**XSMRDB06** 184667	**XPRCSB06** 184718	**XSMRCF** 184669
	XR modules and PIFT 3 poles are possible, PIFT 4 poles without door	600	1000	400	**XSMRDB06** 184667	**XPRCSB06** 184718	**XSMRCF-50** 184670
			1200	600	**XSMRDB06** 184667	**XPRCSB06** 184718	**XSMRCF-50** 184670
800	XR modules and PIFT 3 poles are possible, but PIFT without door	600	1000	400	**XSMRDB08** 184668	**XPRCSB08** 184719	**XSMRCF** 184669
			1200	600	**XSMRDB08** 184668	**XPRCSB08** 184719	**XSMRCF** 184669
	XR modules and PIFT 3 poles are possible with door, 4 poles PIFT without door	600	1000	400	**XSMRDB08** 184668	**XPRCSB08** 184719	**XSMRCF-50** 184670
			1200	600	**XSMRDB08** 184668	**XPRCSB08** 184719	**XSMRCF-50** 184670
	XR modules and PIFT 3+4 poles are possible - behind the door. PIFT also possible without door.	600	1000	400	**XSMRDB08** 184668	**XPRCSB08** 184719	**XSMRCF-100** 184671
			1200	600	**XSMRDB08** 184668	**XPRCSB08** 184719	**XSMRCF-100** 184671

VT30516



wa_vt81213



wa_vt69613



VT37416



VT14316



VT03711



VT03611



Dropper busbar Article No. per unit	U-profile for shutter mounting L = 1850 mm Article No. per unit unit = 2 pcs.	Shutters for removable module and SSL fuse strip, you will need 12 pcs. for each fitting kit/section Article No. per unit unit = 1 pc.	Partition for connection area (half height), if the total height should be covered, you need to order 2 of them Article No. per unit	Separation panel dropper busbar area/ cable connection area Article No. per unit	Fixing bracket for PE/PEN in the connection area Article No. per unit	Fixing bracket for N in the connection area Article No. per unit
see table below	**XASM-PI** 129004	**XAS0606-PI** 122029	**XPFCD035** 184682	**XPRCD2006** 184680	**XDSFP-MC** 151220	**XDSFN-MC** 151221
see table below	**XASM-PI** 129004	**XAS0606-PI** 122029	**XPFCD055** 184683	**XPRCD2006** 184680	**XDSFP-MC** 151220	**XDSFN-MC** 151221
see table below	**XASM-PI** 129004	**XAS0606-PI** 122029	**XPFCD035** 184682	**XPRCD2006** 184680	**XDSFP-MC** 151220	**XDSFN-MC** 151221
see table below	**XASM-PI** 129004	**XAS0606-PI** 122029	**XPFCD055** 184683	**XPRCD2006** 184680	**XDSFP-MC** 151220	**XDSFN-MC** 151221
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see table below	**XASM-PI** 129004	**XAS0606-PI** 122029	**XPFCD055** 184683	**XPRCD2008** 184681	**XDSFP-MC** 151220	**XDSFN-MC** 151221

VT15116



VT15016



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VT14916



VT14916



VT16516



Door to switchgear area incl. hinges and screws IP31	Door to switchgear area incl. hinges and screws IP42	Door to switchgear area incl. hinges and screws IP55	Door to connection area incl. hinges and screws IP31	Door to connection area incl. hinges and screws IP42	Door to connection area incl. hinges and screws IP55	Horizontal partition
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDRMV32000 184708	**XSDRMV42000** 184709	**XSDRMC2000** 184710	**XSDRCV320035** 184712	**XSDRCRV420035** 184713	**XSDRCC20035** 184714	**XPRMM** 184684
XSDRMV32000 184708	**XSDRMV42000** 184709	**XSDRMC2000** 184710	**XSDRCV32055** 184715	**XSDRV420055** 184716	**XSDRCC20055** 184717	**XPRMM** 184684
XSDRMV32000 184708	**XSDRMV42000** 184709	**XSDRMC2000** 184710	**XSDRCV320035** 184712	**XSDRCRV420035** 184713	**XSDRCC20035** 184714	**XPRMM-50** 184685
XSDRMV32000 184708	**XSDRMV42000** 184709	**XSDRMC2000** 184710	**XSDRCV32055** 184715	**XSDRV420055** 184716	**XSDRCC20055** 184717	**XPRMM-50** 184685
XSDRMV32000 184708	**XSDRMV42000** 184709	**XSDRMC2000** 184710	**XSDRCV320035** 184712	**XSDRCRV420035** 184713	**XSDRCC20035** 184714	**XPRMM** 184684
XSDRMV32000 184708	**XSDRMV42000** 184709	**XSDRMC2000** 184710	**XSDRCV32055** 184715	**XSDRV420055** 184716	**XSDRCC20055** 184717	**XPRMM** 184684
XSDRMV32000 184708	**XSDRMV42000** 184709	**XSDRMC2000** 184710	**XSDRCV320035** 184712	**XSDRCRV420035** 184713	**XSDRCC20035** 184714	**XPRMM-50** 184685
XSDRMV32000 184708	**XSDRMV42000** 184709	**XSDRMC2000** 184710	**XSDRCV32055** 184715	**XSDRV420055** 184716	**XSDRCC20055** 184717	**XPRMM-50** 184685
XSDRMV32000 184708	**XSDRMV42000** 184709	**XSDRMC2000** 184710	**XSDRCV320035** 184712	**XSDRCRV420035** 184713	**XSDRCC20035** 184714	**XPRMM-100** 184686
XSDRMV32000 184708	**XSDRMV42000** 184709	**XSDRMC2000** 184710	**XSDRCV32055** 184715	**XSDRV420055** 184716	**XSDRCC20055** 184717	**XPRMM-100** 184686

VT15516+VT15816



vt38116



VT15916



VT25009

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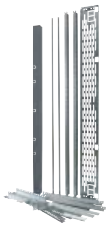
Front covers/ Module doors	Side separation panel for cable connection area. For British Standard, division into individual terminal areas. A separate cable guidance section will be required for this purpose.	Closing strips	Universal profile	Cable strain relief rails
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
see table below	**XPRCC2006** 184642	**XPRMC-MC** 184644	**XSMPB20** 288997	**XAR04** 283850
see table below	**XPRCC2006** 184642	**XPRMC-MC** 184644	**XSMPB20** 288997	**XAR04** 283850
see table below	**XPRCC2006** 184642	**XPRMC-MC** 184644	**XSMPB20** 288997	**XAR04** 283850
see table below	**XPRCC2006** 184642	**XPRMC-MC** 184644	**XSMPB20** 288997	**XAR04** 283850
see table below	**XPRCC2008** 184643	**XPRMC-MC** 184644	**XSMPB20** 288997	**XAR06** 283851
see table below	**XPRCC2008** 184643	**XPRMC-MC** 184644	**XSMPB20** 288997	**XAR06** 283851
see table below	**XPRCC2008** 184643	**XPRMC-MC** 184644	**XSMPB20** 288997	**XAR06** 283851
see table below	**XPRCC2008** 184643	**XPRMC-MC** 184644	**XSMPB20** 288997	**XAR06** 283851
see table below	**XPRCC2008** 184643	**XPRMC-MC** 184644	**XSMPB20** 288997	**XAR06** 283851
see table below	**XPRCC2008** 184643	**XPRMC-MC** 184644	**XSMPB20** 288997	**XAR06** 283851

xEnergy Main Switchboards

XR-Mixed, Form 2

VT37216



VT16416



VT14716



Section depth mm	Section solution	Cover frame Depth mm	Module width mm	Section width mm	Cable section width mm	Mounting frame consisting of 2 mounting side panels, 2 mounting profiles, holding and cross profiles, incl. all screws Article No. per unit	Set of partitions top/bottom Article No. per unit	Cover frame consisting of 2 side cover strips, 2 front elements, incl. all screws Article No. per unit
600	XR-Module 3+4 poles are possible, but PIFT is not possible. The handle would collide with the door.	0	600	1000	400	**XSMRDB06** 184667	**XPRCSB06** 184718	**XSMRCF** 184669
				1200	600	**XSMRDB06** 184667	**XPRCSB06** 184718	**XSMRCF** 184669
	XR-Module 3+4 poles and PIFT 3 poles are possible	50	600	1000	400	**XSMRDB06** 184667	**XPRCSB06** 184718	**XSMRCF-50** 184670
				1200	600	**XSMRDB06** 184667	**XPRCSB06** 184718	**XSMRCF-50** 184670
800	XR-Module 3+4 poles are possible, but PIFT is not possible. The handle would collide with the door.	0	600	1000	400	**XSMRDB08** 184668	**XPRCSB08** 184719	**XSMRCF** 184669
				1200	600	**XSMRDB08** 184668	**XPRCSB08** 184719	**XSMRCF** 184669
	XR-Module 3+4 poles and PIFT 3 poles are possible with door, 4 poles PIFT only without door	50	600	1000	400	**XSMRDB08** 184668	**XPRCSB08** 184719	**XSMRCF-50** 184670
				1200	600	**XSMRDB08** 184668	**XPRCSB08** 184719	**XSMRCF-50** 184670
	XR modules and PIFT 3+4 poles are possible - behind the door	100	600	1000	400	**XSMRDB08** 184668	**XPRCSB08** 184719	**XSMRCF-100** 184671
				1200	600	**XSMRDB08** 184668	**XPRCSB08** 184719	**XSMRCF-100** 184671

VT30516



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wa_vt69613



VT37416



VT14316



VT03711



VT03611



Dropper busbar	U-profile for shutter mounting L = 1850 mm	Shutters for removable module and SSL fuse strip, you will need 12 pcs. for each fitting kit/section	Partition for connection area (half height), if the total height should be covered, you need to order 2 of them	Separation panel dropper busbar area/ cable connection area	Fixing bracket for PE/PEN in the connection area	Fixing bracket for N in the connection area
Article No. per unit	Article No. per unit unit = 2 pcs.	Article No. per unit unit = 1 pc.	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
see table below	**XASM-PI** 129004	**XAS0606-PI** 122029	**XPFCD035** 184682	**XPRCD2006** 184680	**XDSFP-MC** 151220	**XDSFN-MC** 151221
see table below	**XASM-PI** 129004	**XAS0606-PI** 122029	**XPFCD055** 184683	**XPRCD2006** 184680	**XDSFP-MC** 151220	**XDSFN-MC** 151221
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see table below	**XASM-PI** 129004	**XAS0606-PI** 122029	**XPFCD055** 184683	**XPRCD2006** 184680	**XDSFP-MC** 151220	**XDSFN-MC** 151221
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see table below	**XASM-PI** 129004	**XAS0606-PI** 122029	**XPFCD055** 184683	**XPRCD2008** 184681	**XDSFP-MC** 151220	**XDSFN-MC** 151221

wa_vt25713



Section door
IP55

Article No.
per unit

XSDMC2010 284201
XSDMC2012-S*) 284202
XSDMC2010 284201
XSDMC2012-S*) 284202
XSDMC2010 284201
XSDMC2012-S*) 284202
XSDMC2010 284201
XSDMC2012-S*) 284202
XSDMC2010 284201
XSDMC2012-S*) 284202

wa_vt65013



Section door
left
IP31

Article No.
per unit

XSDMLV2010 284212
XSDMV2012-S*) 284213
XSDMLV2010 284212
XSDMV2012-S*) 284213
XSDMLV2010 284212
XSDMV2012-S*) 284213
XSDMLV2010 284212
XSDMV2012-S*) 284213
XSDMLV2010 284212
XSDMV2012-S*) 284213

wa_vt65013



Section door
left
IP42

Article No.
per unit

XTSZDSKV4L-H2000W1000 172701
XTSZDSKV4L-H2000W1200*) 172704
XTSZDSKV4L-H2000W1000 172701
XTSZDSKV4L-H2000W1200*) 172704
XTSZDSKV4L-H2000W1000 172701
XTSZDSKV4L-H2000W1200*) 172704
XTSZDSKV4L-H2000W1000 172701
XTSZDSKV4L-H2000W1200*) 172704
XTSZDSKV4L-H2000W1000 172701
XTSZDSKV4L-H2000W1200*) 172704

wa_vt34213



Section door
right
IP42

Article No.
per unit

XTSZDSKV4R-H2000W1000 172702
XTSZDSKV4R-H2000W1200*) 172703
XTSZDSKV4R-H2000W1000 172702
XTSZDSKV4R-H2000W1200*) 172703
XTSZDSKV4R-H2000W1000 172702
XTSZDSKV4R-H2000W1200*) 172703
XTSZDSKV4R-H2000W1000 172702
XTSZDSKV4R-H2000W1200*) 172703
XTSZDSKV4R-H2000W1000 172702
XTSZDSKV4R-H2000W1200*) 172703

VT25009

Universal profile

Article No.
per unit

XSMPB20 288997
XSMPB20 288997
XSMPB20 288997
XSMPB20 288997
XSMPB20 288997
XSMPB20 288997
XSMPB20 288997
XSMPB20 288997
XSMPB20 288997
XSMPB20 288997

wa_vt15013



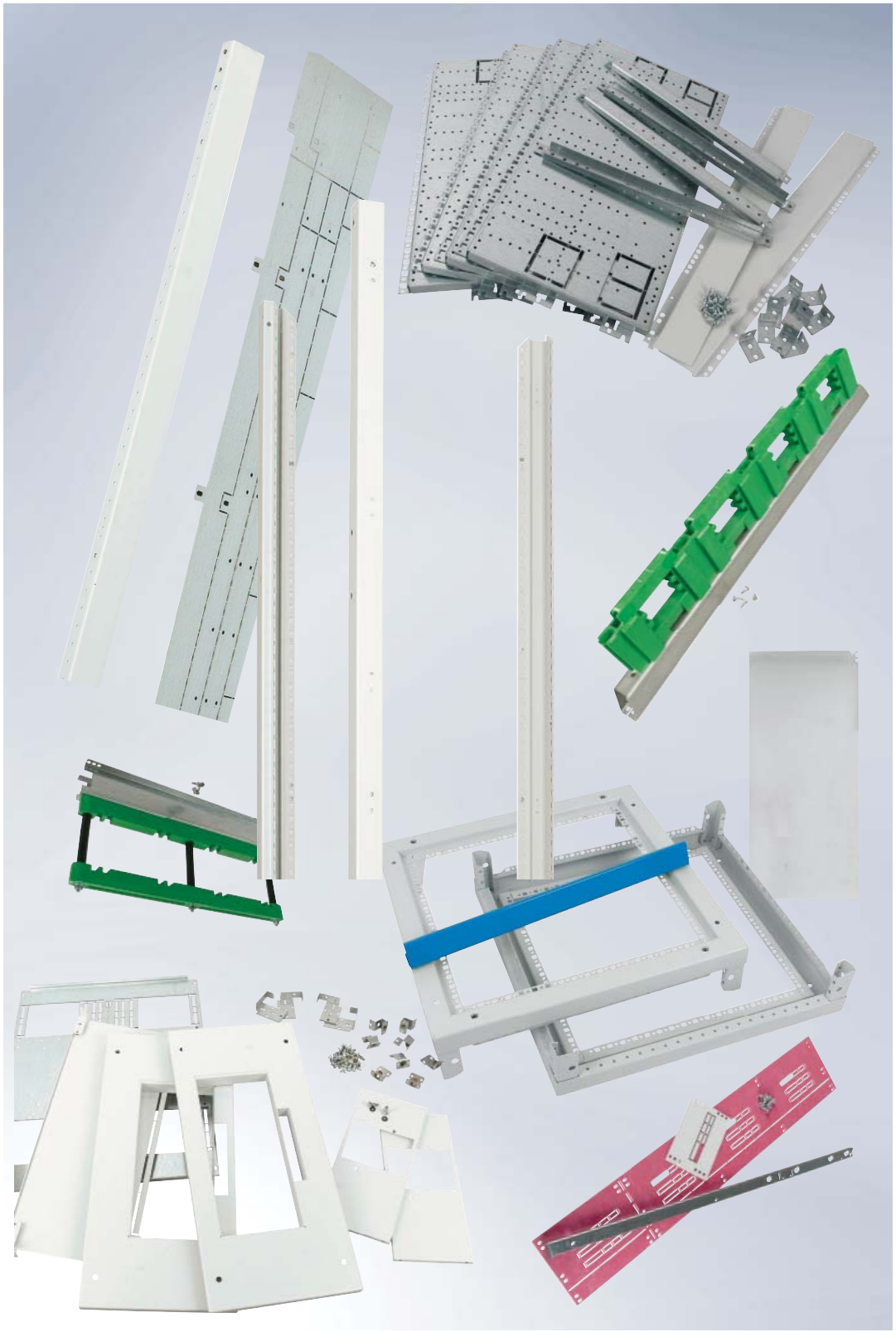
Cable strain relief rails

Article No.
per unit

XAR04 283850
XAR04 283850
XAR04 283850
XAR04 283850
XAR04 283850
XAR04 283850
XAR04 283850
XAR04 283850
XAR04 283850
XAR04 283850

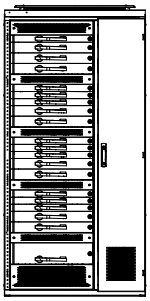
*) Doors have two wings

Components XR Mixed

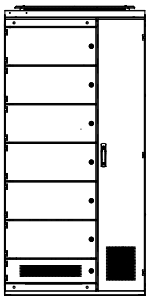


Compensation Covers - Different Applications

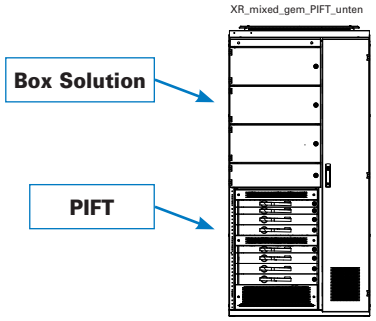
XR_mixed_nur_PIFT

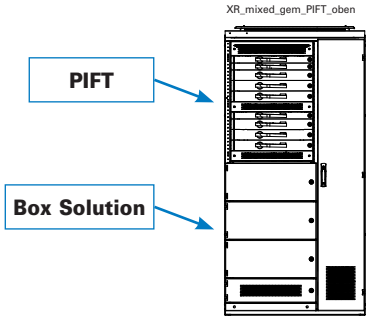


XR_mixed_nur_Steck



			Only with PIFT Required cover strips/ventilations/doors		Only removable/fixed modules/QSA modules Required cover strips/ventilations/doors	
			Bottom	Top	Bottom	Top
IP31						
	No doors in front of PIFT modules	Cover strips	**XSMRF-PIFT-B** 184838	**XSMRF-PIFT-T** 184673	**XSMRF** 184672	**XSMRF** 184672
		Doors	–	–	**XSDRMV30175** 184690	–
	With doors in front of PIFT modules	Cover strips	**XSMRF-PIFT-B** 184838	**XSMRF-PIFT-T** 184673	–	–
		Doors	Door of H = 325-825 mm **XSDRMC3xxx**	Door of H = 325-825 mm **XSDRMC3xxx**	– –	– –
	Doors half-height	Cover strips	**XSMRF-PIFT-B** 184838	**XSMRF-PIFT-T** 184673	–	–
		Doors	**XSDRMC0975-T** 184702	**XSDRMV30975-B** 184705	**XSDRMV30975-B** 184705	**XSDRMC0975-T** 184702
	Doors as high as the section	Cover strips	**XSMRF-PIFT-B** 184838	**XSMRF-PIFT-T** 184673	–	–
		Doors	**XSDRMV32000** 184708	**XSDRMV32000** 184708	**XSDRMV32000** 184708	**XSDRMV32000** 184708
IP42						
	With doors in front of PIFT modules	Cover strips	**XSMRF-PIFT-B** 184838	**XSMRF-PIFT-T** 184673	**XSMRF** 184672	**XSMRF** 184672
		Doors	–	–	**XSDRMV40175** 184691	–
	Doors half-height	Cover strips	–	–	–	–
		Doors	–	–	**XSDRMV40975-B** 184707	**XSDRMC0975-T** 184702
	Doors as high as the section	Cover strips	**XSMRF-PIFT-B** 184838	**XSMRF-PIFT-T** 184673	–	–
		Doors	**XSDRMV42000** 184709	**XSDRMV42000** 184709	**XSDRMV42000** 184709	**XSDRMV42000** 184709
IP55						
	With doors in front of PIFT modules	Cover strips	–	–	–	–
		Doors	–	–	–	–
	Doors half-height	Cover strips	–	–	**XSMRF** 184672	**XSMRF** 184672
		Doors	–	–	**XSDRMC0975-B** 184703	**XSDRMC0975-T** 184702
	Doors as high as the section	Cover strips	**XSMRF-PIFT-T** 184838	– 184673	–	
		Doors closed	**XSDRMC2000** 184710	**XSDRMC2000** 184710	**XSDRMC2000** 184710	**XSDRMC2000** 184710
		Glass doors	**XSDRMD2000** 184711	**XSDRMD2000** 184711	**XSDRMD2000** 184711	**XSDRMD2000** 184711





Mixed set-up of PIFT/removable or fixed modules
– PIFT at the bottom/removable or fixed modules/QSA modules
Required cover strips/ventilations/doors

for the PIFT section		for the Box Solution section	
Bottom	Top	Bottom	Top
XSMRF-PIFT-B 184838	**XME0603CSV** 129011	–	**XSMRF** 174672
–	–	Door of H = 175-825 mm **XSDRMCxxxx**	Door of H = 175-825 mm **XSDRMCxxxx**
XSMRF 174672	**XME0603CSV** 129011	–	**XSMRF** 174672
Door of H = 325-825 mm **XSDRMC3xxx**	Door of H = 325-825 mm **XSDRMC3xxx**	Door of H = 175-825 mm **XSDRMCxxxx**	Door of H = 175-825 mm **XSDRMCxxxx**
XSMRF-PIFT-B 184838	**XME0603CSV** 129011	–	–
XSDRMV30975-B 184705	**XSDRMV30975-B** 184705	**XSDRMC0975-T** 184702	**XSDRMC0975-T** 184702
XSMRF-PIFT-B 184838	–	–	–
XSDRMV32000 184708	**XSDRMV32000** 184708	**XSDRMV32000** 184708	**XSDRMV32000** 184708

XSMRF-PIFT-B 184838	**XME0603CSV** 129011	–	**XSMRF** 174672
Door of H = 325-825 mm **XSDRMC4xxx**	Door of H = 325-825 mm **XSDRMC4xxx**	Door of H = 175-825 mm **XSDRMCxxxx**	Door of H = 175-825 mm **XSDRMCxxxx**
XSMRF-PIFT-B 184838	**XME0603CSV** 129011	–	–
XSDRMV40975-B 184707	**XSDRMV40975-B** 184707	**XSDRMC0975-T** 184702	**XSDRMC0975-T** 184702
XSMRF-PIFT-B 184838	–	–	–
XSDRMV42000 184709	**XSDRMV42000** 184709	**XSDRMV42000** 184709	**XSDRMV42000** 184709

XSMRF 184672	**XME0603CSV** 129011	–	**XSMRF** 174672
Any Standard Box door IP55 up to H = 825 mm to cover PIFT strips	Any Standard Box door IP55 up to H = 825 mm to cover PIFT strips	Any Standard Box door IP55 up to H = 825 mm	–
XSMRF-PIFT-B 184838	–	–	–
XSDRMC0975-B 184703	**XSDRMC0975-B** 184703	**XSDRMC0975-T** 184702	**XSDRMC0975-T** 184702
XSMRF-PIFT-B 184838	–	–	–
XSDRMC2000 184710	**XSDRMC2000** 184710	**XSDRMC2000** 184710	**XSDRMC2000** 184710
XSDRMD2000 184711	**XSDRMD2000** 184711	**XSDRMD2000** 184711	**XSDRMD2000** 184711

Mixed set-up of PIFT/removable or fixed modules
– PIFT at the top/removable or fixed modules/QSA modules
Required cover strips/ventilations/doors

for the PIFT section		for the Box Solution section	
Bottom	Top	Bottom	Top
XME0603CSV 129011	**XSMRF-PIFT-T** 184673	–	**XSMRF** 184672
–	–	Door of H = 175-825 mm **XSDRMCxxxx**	Door of H = 175-825 mm **XSDRMCxxxx**
XME0603CSV 129011	**XSMRF** 174672	–	**XSMRF** 184672
Door of H = 275-825 mm **XSDRMCxxxx**	Door of H = 275-825 mm **XSDRMCxxxx**	Door of H = 175-825 mm **XSDRMC3xxx**	Door of H = 175-825 mm **XSDRMC3xxx**
XME0603CSV 129011	**XSMRF-PIFT-T** 184673	–	–
XSDRMC0975-T 184702	**XSDRMC0975-T** 184702	**XSDRMV30975-B** 184705	**XSDRMV30975-B** 184705
–	**XSMRF-PIFT-T** 184673	–	–
XSDRMV32000 184708	**XSDRMV32000** 184708	**XSDRMV32000** 184708	**XSDRMV32000** 184708

XME0603CSV 129011	**XSMRF-PIFT-T** 184673	–	**XSMRF** 184672
Door of H = 275-825 mm **XSDRMCxxxx**	Door of H = 275-825 mm **XSDRMCxxxx**	Door of H = 175-825 mm **XSDRMC4xxx**	Door of H = 175-825 mm **XSDRMC4xxx**
XME0603CSV 129011	**XSMRF-PIFT-T** 184673	–	–
XSDRMC0975-T 184702	**XSDRMC0975-T** 184702	**XSDRMV40975-B** 184707	**XSDRMV40975-B** 184707
–	**XSMRF-PIFT-T** 184673	–	–
XSDRMV42000 184709	**XSDRMV42000** 184709	**XSDRMV42000** 184709	**XSDRMV42000** 184709

XME0603CSV 129011	**XSMRF** 174672	**XSMRF** 184672	–
Any Standard Box door IP55 up to H = 825 mm to cover PIFT strips	Any Standard Box door IP55 up to H = 825 mm to cover PIFT strips	–	Any Standard Box door IP55 up to H = 825 mm
XME0603CSV 129011	–	–	–
XSDRMC0975-B 184703	**XSDRMC0975-T** 184702	**XSDRMC0975-T** 184702	**XSDRMC0975-T** 184702
XME0603CSV 129011	–	–	–
XSDRMC2000 184710	**XSDRMC2000** 184710	**XSDRMC2000** 184710	**XSDRMC2000** 184710
XSDRMD2000 184711	**XSDRMD2000** 184711	**XSDRMD2000** 184711	**XSDRMD2000** 184711

Module doors/Cover strips suitable for NZM & General Modules

vt15616



vt15416



vt15516



Height in mm	Module doors/cover strips IP55 Article No. per unit	Module doors/cover strips IP42 Article No. per unit	Module doors/cover strips IP31 Article No. per unit
50*)	**XRMC050** 184687		
75*)	**XRMC075** 184688		
125	**XSDRMC0125** 184689		
175	**XSDRMC0175** 184692	**XSDRMV40175** 184691	**XSDRMV30175** 184690
225	**XSDRMC0225** 184693		
275	**XSDRMC02755** 184694		
325	**XSDRMC0325** 184695		
375	**XSDRMC0375** 184696		
425	**XSDRMC0425** 184697		
525	**XSDRMC0525** 184698		
625	**XSDRMC0625** 184699		
725	**XSDRMC0725** 1846700		
825	**XSDRMC0825** 184701	**XSDRMV40825** 184706	**XSDRMV30825** 184704
975 Door half-height - top	**XSDRMC0975-T** 184702		
975 Door half-height - bottom	**XSDRMC0975-B** 184703	**XSDRMV40975-B** 184707	**XSDRMV30975-B** 184705
2000 Door as high as section - bottom	**XSDRMC2000** 184710	**XSDRMV42000** 184709	**XSDRMV32000** 184708

*) Finished as snap-on cover

Module doors suitable for QSA

- Door design in IP31
- Including holes for rotary drive

Height in mm	Module doors **Single** Article No. per unit	Suitable for modules:	
150	**XSDRMC0150-QSA** 184687	XMR-QSA-1-3-S	193392
		XMR-QSA-1-4-S	193393
		XMR-QSA-1-3P-N-S	193394
200	**XSDRMC0200-QSA** 193424	XMR-QSA-2-3-S-250	193398
		XMR-QSA-2-4-S-250	193399
		XMR-QSA-2-3P-N-S-250	193400
		XMR-QSA-2-3-S-400	193401
		XMR-QSA-2-4-S-400	193402
		XMR-QSA-2-3P-N-S-400	193403
		XMR-QSA-2-3-S-250-BS	193413
		XMR-QSA-2-4-S-250-BS	193414
		XMR-QSA-2-3P-N-S-250-BS	193415
		XMR-QSA-2-3-S-400-BS	193416
		XMR-QSA-2-4-S-400-BS	193417
		XMR-QSA-2-3P-N-S-400-BS	193418
	XSDRMC0200-QSA-BS 193426	XMR-QSA-1-3-S-BS	193407
		XMR-QSA-1-4-S-BS	193408
		XMR-QSA-1-3P-N-S-BS	193409
450	**XSDRMC0450-QSA** 193427	XMR-QSA-3-3-S	193404
		XMR-QSA-3-4-S	193405
		XMR-QSA-3-3P-N-S	193406
		XMR-QSA-3-3-S-BS	193419
		XMR-QSA-3-4-S-BS	193420
		XMR-QSA-3-3P-N-S-BS	193421

Height in mm	Module doors **Dual** Article No. per unit	Suitable for modules:	
150	**XSDRMC0150-QSA-DUAL** 193423	XMR-QSA-1-3-D	193395
		XMR-QSA-1-4-D	193396
		XMR-QSA-1-3P-N-D	193397
200	**XSDRMC0200-QSA-DUAL** 193425	XMR-QSA-1-3-D-BS	193410
		XMR-QSA-1-4-D-BS	193411
		XMR-QSA-1-3P-N-D-BS	193412

Sets of rail carriers

VT30516



Cross section mm	Short-circuit breaking capacity	Sets of rail carriers Article No. per unit
40 x 10	30 kA/1s	**XDSR-40x10-30** 184674
	50 kA/1s	**XDSR-40x10-50** 184675
60 x 10	50 kA/1s	**XDSR-60x10-50** 184676
	65 kA/1s	**XDSR-60x10-65** 184677
80 x 10	65 kA/1s	**XDSR-80x10-65** 184678
	80 kA/1s + 50 kA/3s	**XDSR-80x10-80** 184679

Shutters for removable modules and SSL fuse strips

wa_vt81213



wa_vt69613



U-profile for shutter mounting L = 1850 mm Article No. per unit unit = 2 pcs.	Shutters for removable design and SSL fuse strips, you will need 12 pcs. for each fitting kit/section Article No. per unit unit = 1 pc.
XASM-PI 129004	**XAS0606-PI** 122029

Power Modules in Removable Design

vt16116



vt39216



vt16116



vt39116



vt38916



vt38216



Poles	Universal Power Module for voltage tap directly from the dropper busbar I_{max} = 630 A Module height = 100 mm incl. guidance rail and screws Article No. per unit	Removable design module suitable for PKZM0 and PKE32 switchgear, Module height = 100 mm incl. guidance rail and screws Article No. per unit	Removable design module suitable for PKZM4 and PKE65 switchgear, Module height = 100 mm incl. guidance rail and screws Article No. per unit	NZM1 Removable design module suitable for NZM/ size 1 Module height 3 poles = 100 mm, 4 poles = 150 mm incl. guidance rail and screws Article No. per unit	NZM1 Removable design module suitable for NZM/ size 2 Module height 3 poles = 150 mm, 4 poles = 200 mm incl. guidance rail and screws Article No. per unit	NZM1 Removable design module suitable for NZM/ size 3 Module height 3 poles = 200 mm, 4 poles = 250 mm incl. guidance rail and screws Article No. per unit
3	**XMR-I-3-04** 184720	**XMR-P-04** 184722	**XMR-P2-04** 185229	**XMR-N13-04** 184723	**XMR-N23-06** 184725	**XMR-N33-08** 184727
4	**XMR-I-4-04** 184721	-	-	**XMR-N14-06** 184724	**XMR-N24-08** 184726	**XMR-N34-10** 184728

Removable design - Expansion modules

vt38516



VT17316



vt43616



Module height	General removable design modules/expansion modules without drill holes, incl. guidance rail and screws Article No. per unit	Connection kit to mechanically connect 2 modules, incl. 2 connection straps and screws Article No. per unit	Operating handles for removable design modules Article No. per unit
100	**XMR-E-04** 184729	**XMR-ACK** 184633	**XMR-AH** 184641
150	**XMR-E-06** 184730		
200	**XMR-E-08** 184731		
250	**XMR-E-10** 184732		
300	**XMR-E-12** 184733		
350	**XMR-E-14** 184734		
400	**XMR-E-16** 184735		

Power Modules in Removable Design - QSA

	Poles	Size 1 / H = 150 mm suitable for area installation kit -0 -50 -100 Article No. per unit	Size 2 / H = 200 mm suitable for area installation kit -0 -50 -100 Article No. per unit	Size 3 / H = 450 mm suitable for area installation kit -50 -100 Article No. per unit
Single Module DIN	3	**XMR-QSA-1-3-S** 193392	**XMR-QSA-2-3-S** 193398	**XMR-QSA-3-3-S** 193404
	4	**XMR-QSA-1-4-S** 193393	**XMR-QSA-2-4-S** 193399	**XMR-QSA-3-4-S** 193405
	3P+N	**XMR-QSA-1-3P+N-S** 193094	**XMR-QSA-2-3P+N-S** 193400	**XMR-QSA-3-3P+N-S** 193406
Dual Module DIN	3	**XMR-QSA-1-3-D** 193395	**XMR-QSA-2-3-D** 193401	-
	4	**XMR-QSA-1-4-D** 193396	**XMR-QSA-2-4-D** 193402	-
	3P+N	**XMR-QSA-1-3P+N-D** 193397	**XMR-QSA-2-3P+N-D** 1930403	-
Single Module British Standard	3	**XMR-QSA-1-3-S-BS** 193407	**XMR-QSA-2-3-S-BS** 193413	**XMR-QSA-3-3-S-BS** 193419
	4	**XMR-QSA-1-4-S-BS** 193408	**XMR-QSA-2-4-S-BS** 193414	**XMR-QSA-3-4-S-BS** 193420
	3P+N	**XMR-QSA-1-3P+N-S-BS** 193409	**XMR-QSA-2-3P+N-S-BS** 193415	**XMR-QSA-3-3P+N-S-BS** 193421
Dual Module British Standard	3	**XMR-QSA-1-3-D-BS** 193410	**XMR-QSA-2-3-D-BS** 193416	-
	4	**XMR-QSA-1-4-D-BS** 193411	**XMR-QSA-2-4-D-BS** 193417	-
	3P+N	**XMR-QSA-1-3P+N-D-BS** 193412	**XMR-QSA-2-3P+N-D-BS** 193418	-

Fixed Modules

Vt15716

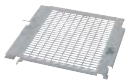


Module height	General fixed modules mounting plate and screws Article No. per unit
100	**XMR-EF-04** 184634
150	**XMR-EF-06** 184635
200	**XMR-EF-08** 184636
250	**XMR-EF-10** 184637
300	**XMR-EF-12** 184638
350	**XMR-EF-14** 184639
400	**XMR-EF-16** 184640

Separation panels for sub-division of the cable connection area (separate terminal area)

- are required to accomplish internal separation up to type 7 according to British Standard

VT16316



Section depth mm	Horizontal separation panel, for each module you will need 2 separation panels; for 2 adjacent modules you will need 3 separation panels only. Article No. per unit
600	**XPRCCH03506** 184645
800	**XPRCCH03508** 184646

vt28316

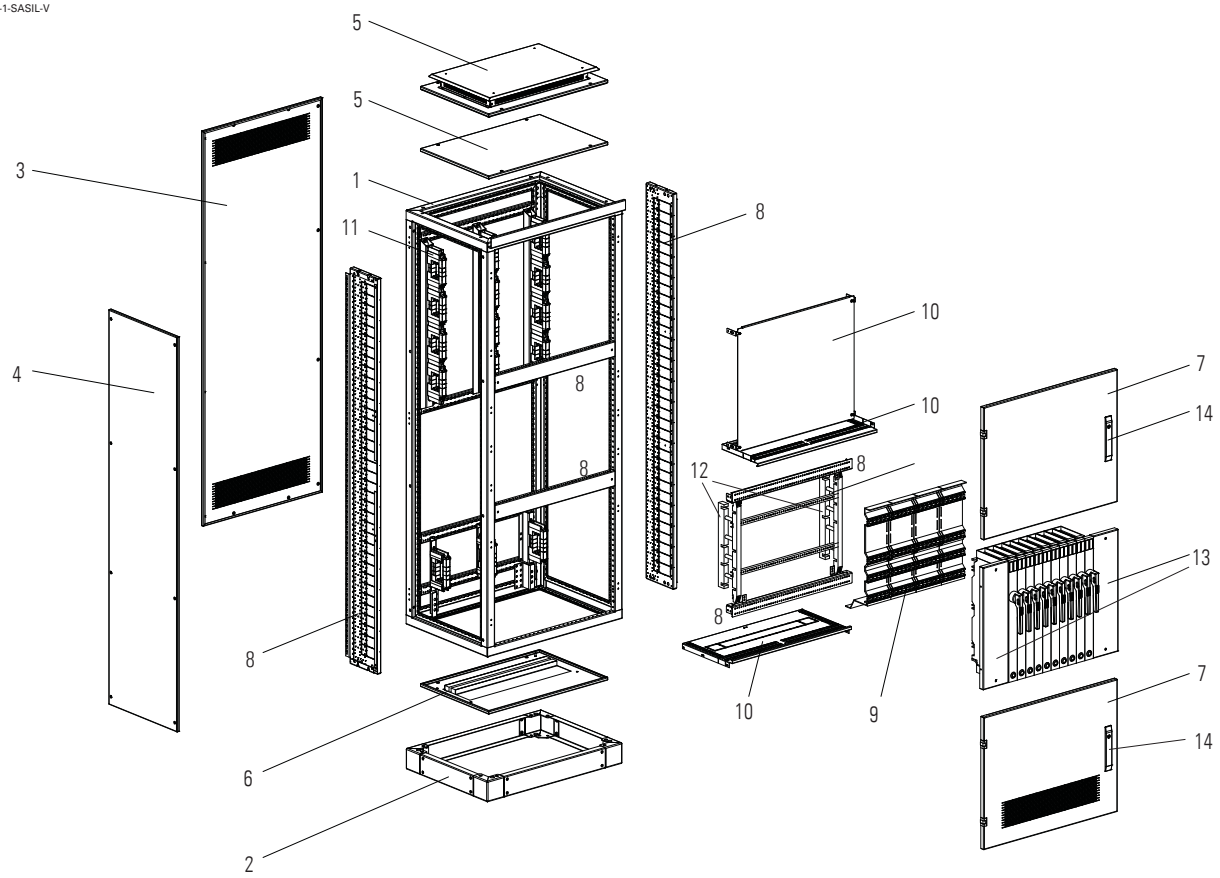


Module height mm	Vertical separation panel, cover panels as high as the module, one cover panel for each module, suitable for the width of the cable connection area 350 mm/section width 1000 mm Article No. per unit
50	**XPRCCV0050035** 184647
75	**XPRCCV0075035** 184648
125	**XPRCCV0125035** 184649
150	**XPRCCV015035** 193389
175	**XPRCCV0175035** 184650
200	**XPRCCV020035** 193390
225	**XPRCCV0225035** 184651
275	**XPRCCV0275035** 184652
325	**XPRCCV0325035** 184653
375	**XPRCCV0375035** 184654
425	**XPRCCV0425035** 184655
450	**XPRCCV045035** 193391
525	**XPRCCV0525035** 184656
625	**XPRCCV0625035** 184657
725	**XPRCCV0725035** 184658
528	**XPRCCV0825035** 184659
975	**XPRCCV0975035** 184660

Notes

Description

Katalog 4-1-SASIL-V



Abbreviations:
EVEN . . . . . Main busbars and connection area are on the same side
OPPO . . . . . Main busbars and connection area are opposite each other
UK . . . . . 3P+N (for UK market)

1 Frame
2 Plinth
3 Rear panel
4 Side panel
5 Top panel
6 Bottom panel
7 Door
8 Fitting kit for PIFT
9 Shutters
10 Partitioning panels
11 Main busbar support
12 Support for dropper bar
13 Cover for empty spaces
14 Lock mechanism

Features

- Widths of 600/800/1000 mm
- Suitable for rear-mounted main busbar
- Can be installed while energized (strips)
- IP31
- Outgoers are possible up and downwards
- Form 3
- To be operated from outside
- Dropper bar from 800 to 1600 A
- Suitable for fuse strips from ABB and Jean-Müller

Notes

Frame comes with a blue design strip.
Doors include locking system for 3 mm two-way key bit.
Where cover plates in several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durostone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

xEnergy Main Switchboards

Outgoing Section with Switch Fuse Units, Vertical, Main Busbars rear-mounted (HSS), PIFT vertical

wa_vt72413



wa_vt28313



VT18709



Section depth mm	Section width mm	Switchgear area width suitable for carrying equipment mm	Fitting kit for PIFT to be operated from outside Article No. per unit	Fitting kit Support for dropper bar Article No. per unit
600	600	500	**XSMSV0608** 284279 122299*	see page xx
	800	700	**XSMSV0808** 284281 122300*	see page xx
	1000	900	**XSMSV1008** 285510 122378*	see page xx
800	600	500	**XSMSV0608** 284279 122299*	see page xx
	800	700	**XSMSV0808** 284281 122300*	see page xx
	1000	900	**XSMSV1008** 285510 122378*	see page xx

Note * Finish in special RAL colour

Outgoing Section with Switch Fuse Units, Vertical, Main Busbars rear-mounted (HSS), PIFT vertical

VT21209



wa_vt63313



wa_vt65313



wa_vt65413



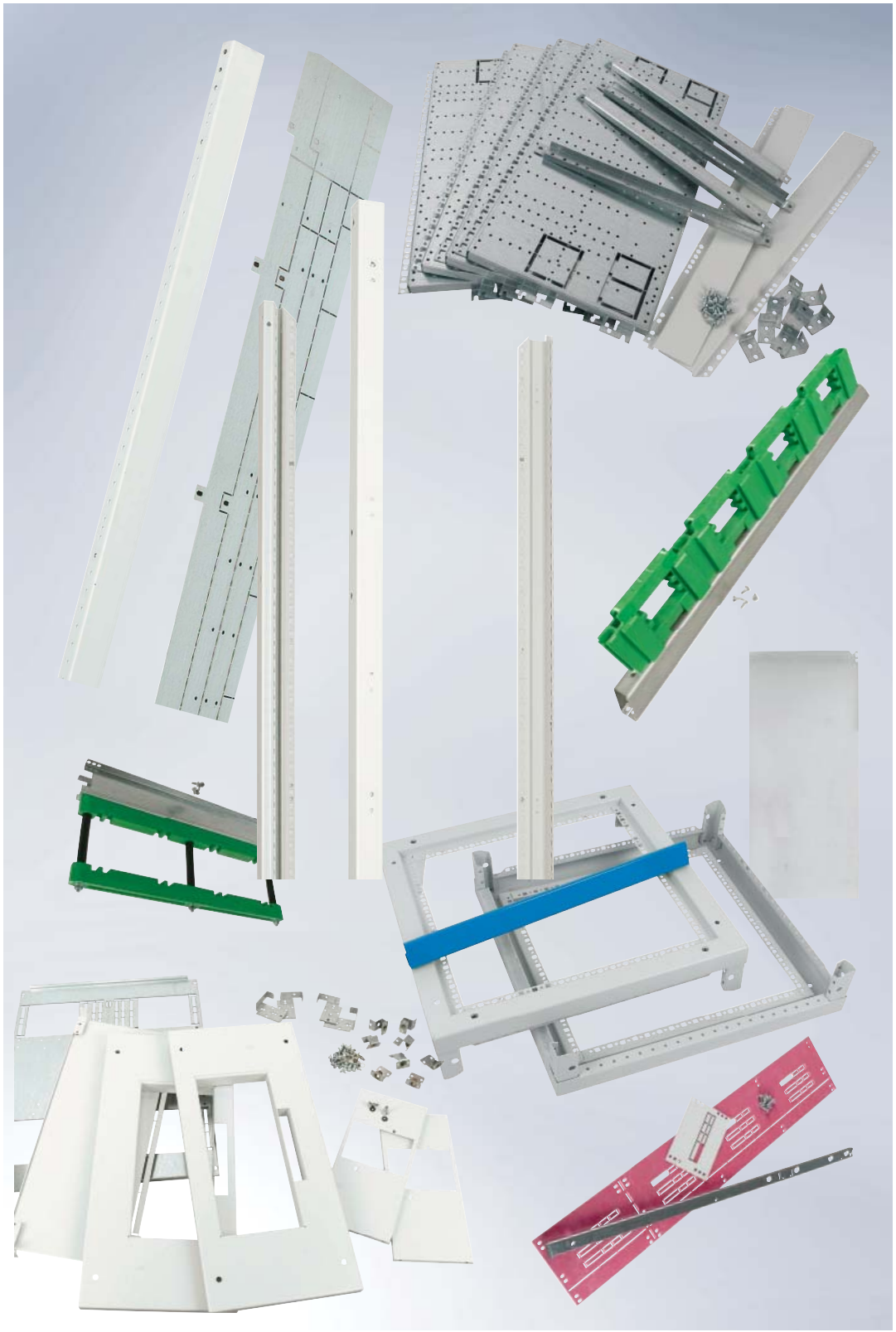
wa_vt65513



Partitions separation panels	Separation panel for EVEN connection	Door to switchgear area (one-third door) up to IP55 closed	Door to switchgear area (one-third door) up to IP31 ventilated right	Door to switchgear area (one-third door) up to IP31 ventilated left
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XPL06 284161	**XPLB0606** 116456	**XSDMC0606** 284195 122241*	**XSDMRV0606** 284215 122261*	**XSDMLV0606** 284206 122252*
XPL08 284162	**XPLB0806** 116457	**XSDMC0608** 284196 122242*	**XSDMRV0608** 284216 122262*	**XSDMLV0608** 284207 122253*
XPL10 285500	**XPLB1006** 116458	**XSDMC0610** 285506 122374*	**XSDMRV0610** 285508 122376*	**XSDMLV0610** 285507 122375*
XPL0608 126006	**XPLB0608** 124415	**XSDMC0606** 284195 122241*	**XSDMRV0606** 284215 122261*	**XSDMLV0606** 284206 122252*
XPL0808 126007	**XPLB0808** 124416	**XSDMC0608** 284196 122242*	**XSDMRV0608** 284216 122262*	**XSDMLV0608** 284207 122253*
XPL1008 126008	**XPLB1008** 124417	**XSDMC0610** 285506 122374*	**XSDMRV0610** 285508 122376*	**XSDMLV0610** 285507 122375*

Note * Finish in special RAL colour

Components Switch Fuse Units PIFT vertical



Accessories

Fitting kits for SSL Switch-fuse Units PIFT (vertical)

VT24309



Section width mm	Fitting kits for SSL switch fuse units PIFT vertical Article No. per unit
425	-
600	**XSMSV0608** 284279 122299*
800	**XSMSV0808** 284281 122300*
1000	**XSMSV1008** 285510 122378*

Accessories for Outgoing Sections: Cover for empty spaces

VT28410



Height mm	Empty space cover for closing the gap between switchgear area and cable connection area Article No. per unit unit = 1 pc.
25	**XPFMC25** 143197
50	**XPFMC50** 143198
75	**XPFMC75** 143199
100	**XPFMC100** 143194
150	**XPFMC150** 143195
200	**XPFMC200** 143196

Accessories for Outgoing Sections: Cover for empty spaces

VT08406

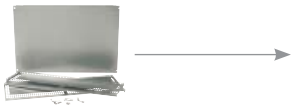


For SSL H = 25 mm Article No. per unit	For SSL H = 50 mm Article No. per unit	For SSL H = 75 mm Article No. per unit	For SSL H = 75 mm ventilated Article No. per unit	For SSL H = 150 mm Article No. per unit
XME0601CS 289955 122393*	**XME0602CS** 292500 122399*	**XME0603CS** 292501 122400*	**XME0603CSV** 129011 129014*	**XME0606CS** 292502 122401*

Note * Finish in special RAL colour

Accessories for Outgoing Sections: Partitioning panels

VT21209



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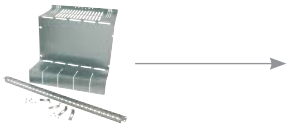

Width mm	For SSL-Feld Section depth 600 mm	For SSL-Feld Section depth 800 mm	For SSL-Feld vertical installation Section depth 600 mm EVEN type of connection	For SSL-Feld vertical installation Section depth 800 mm EVEN type of connection
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
600	**XPL-06** 284161	**XPL0608** 126006	**XPLB0606** 116456	**XPLB0608** 124415
800	**XPL-08** 284162	**XPL0808** 126007	**XPLB0806** 116457	**XPLB0808** 124416
1000	**XPL-10** 285500	**XPL1008** 126008	**XPLB1006** 116458	**XPLB1008** 124417

Dropper Bars up to 1600A for Outgoing Sections - PIFT vertical

Features:
- 800 – 1600 A
- TN-C, TN-C-S, TN-S, IT

VT18809



I_e A	Busbar cross-sections L1, L2, L3, full N mm²	PE, PEN mm²	Type of Fitting kit, dropper bars 3 poles L1, L2, L3 Article No. 1 set
Dropper bars, horizontal, for vertically installed PIFT fuse strips, center-to-center phase distance 185 mm, Set includes 2 supports			
800	1 x 40 x 10 (N = 1 x 40 x 10)[1)]	1 x 20 x 10[1)]	**XDSSH08** 283896
1000	1 x 60 x 10 (N = 2 x 40 x 10)[1)]	1 x 40 x 10[1)]	**XDSSH10** 283897
1200	1 x 80 x 10 (N = 2 x 40 x 10)[1)]	1 x 40 x 10[1)]	**XDSSH12** 283898
1600	1 x 100 x 10 (N = 2 x 60 x 10)[1)]	1 x 60 x 10[1)]	**XDSSH16** 283899

Note For short-circuit strength see as of page xx

[1)] Where necessary, this is to be determined depending on the cross-section required for N or PE, PEN of the main busbar.

Accessories for 5000 A application with a section depth of 1000 mm

Additional partition for 5000 A systems

wa_vt71313



Section width mm	Partition extension for 5000 A systems busbar area/main busbar area Article No. per unit
600	**XPIBCB-H-06019** 150515
800	**XPIBCB-H-08019** 150516
1000	**XPIBCB-H-10019** 150518

xEnergy Main Switchboards

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XW = Outgoing sections in withdrawable design

- Outgoing sections as Motor Control Centers in withdrawable design ..... Page xx
- DOL Direct Starters ..... Page xx
- FR Reverse Starters ..... Page xx
- SD Star/delta ..... Page xx
- 3 pole FE power outgoers ..... Page xx
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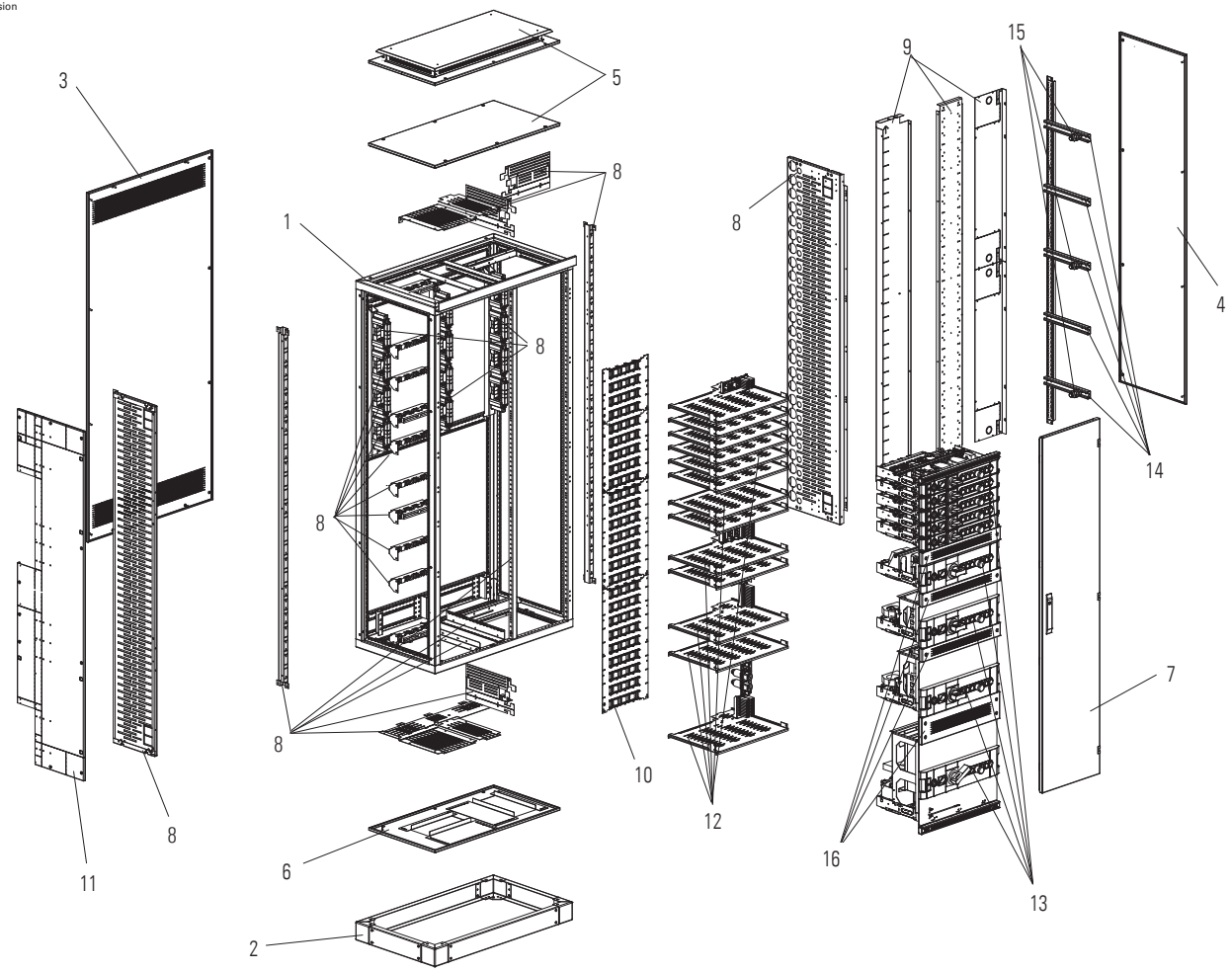
- 3 pole power outgoers with contactor for remote operation - FC ..... Page xx
- 4 pole power outgoers with contactor for remote operation - FC ..... Page xx
- Individual parts ..... Page xx

Description

MCC_Explosion



1 Frame
2 Plinth
3 Rear panel
4 Side panel
5 Top panel
6 Bottom panel
7 Door
8 Fitting kit Motor Control Center
9 Partition between main busbar area/cable connection area
10 Partition dropper bar
11 Separation panel between section/section
12 Shelf-boards
13 Drawers
14 Anchoring rails
15 Supports/Insulator neutral conductors
16 Front plates

Features

- Section height 2000 mm
- Section depths of 600/800/1000 mm
- Section widths of 1000/1200 mm
- IP31/55
- Outgoings are possible at the top and bottom
- Form 4b
- Dropper bars In = 1000/2000 A
- Dropper bar short-circuit current Icw max = 80 kA
- N+PE in the cable connection area
- Module can be replaced while system is energized
- Max. switchgear area available H = 1875 mm

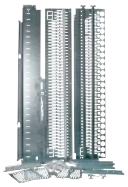
Notes

Frame comes with a blue design strip.
Doors include locking system for 3 mm two-way key bit.
Where cover plates in several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durostone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".
No additional partition for 5000 A applications necessary.

xEnergy Main Switchboards

Outgoing sections as Motor Control Centers in withdrawable design

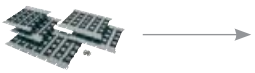
VT01511



VT02711



VT02911



VT03411



VT01611



Section width mm	Section depth mm	Connection area width mm	Fitting kit for MCC	Dropper bar set	Shutters 35, 50, 65 kA	Shutters 80 kA	Shutter Accessories	Partition Cable connect area/ main busbar area
			Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
600	1000	400	**XSMFDB0606-MC** 151211	see page xx	**XPFDM-65-MC** 151215	**XPFDM-80-MC** 151216	**XPFDM-A-MC** 151217	**XPFCB04-MC** 151213
	1200	600	**XSMFDB0606-MC** 151211	see page xx	**XPFDM-65-MC** 151215	**XPFDM-80-MC** 151216	**XPFDM-A-MC** 151217	**XPFCB06-MC** 151214
800	1000	400	**XSMFDB0608-MC** 151212	see page xx	**XPFDM-65-MC** 151215	**XPFDM-80-MC** 151216	**XPFDM-A-MC** 151217	**XPFCB04-MC** 151213
	1200	600	**XSMFDB0608-MC** 151212	see page xx	**XPFDM-65-MC** 151215	**XPFDM-80-MC** 151216	**XPFDM-A-MC** 151217	**XPFCB06-MC** 151214

VT02211



VT03711



VT03611



wa_vt34513



wa_vt34213



VT04111



Front Filler IP31	Front Filler IP55	Fixing set for PE/PEN dropper bar in the cable connection area	Fixing set for N dropper bar in the cable connection area	Door to cable connection area IP55	Door to cable connection area IP31	Rain top IP31
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XMCTB-V-MC	**XMCTB-C-MC**	**XDSFP-MC**	**XDSFN-MC**	**XSDFCC2004**	**XSDFCRV2004**	**XSFDR10-X1-B**
151218	151219	151220	151221	284183	151670	155542
152661*	152662*			122231*	151672*	
XMCTB-V-MC	**XMCTB-C-MC**	**XDSFP-MC**	**XDSFN-MC**	**XSDFCC2006**	**XSDFCRV2006**	**XSFDR12-X1-B**
151218	151219	151220	151221	102052	151671	155543
152661*	152662*			122416*	151673*	
XMCTB-V-MC	**XMCTB-C-MC**	**XDSFP-MC**	**XDSFN-MC**	**XSDFCC2004**	**XSDFCRV2004**	**XSFDR10-X1-B**
151218	151219	151220	151221	284183	151670	155542
152661*	152662*			122231*	151672*	
XMCTB-V-MC	**XMCTB-C-MC**	**XDSFP-MC**	**XDSFN-MC**	**XSDFCC2006**	**XSDFCRV2006**	**XSFDR12-X1-B**
151218	151219	151220	151221	102052	151671	155543
152661*	152662*			122416*	151673*	

Note * Finish in special RAL colour

xEnergy Main Switchboards

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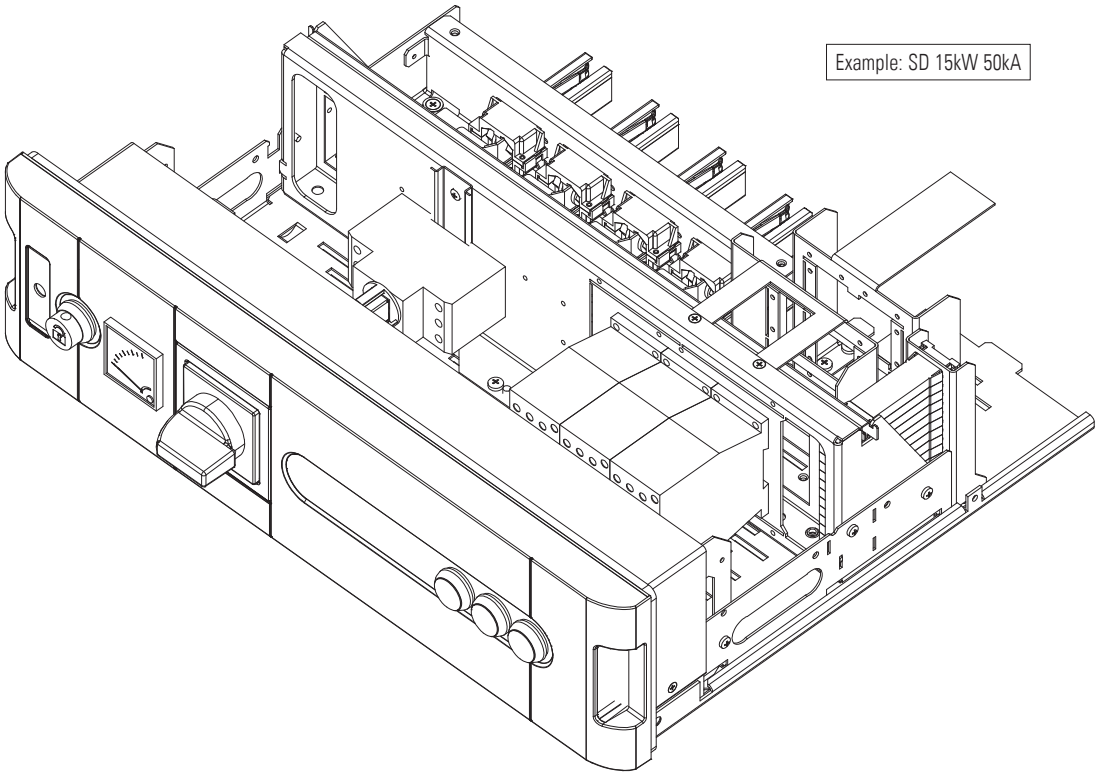
Drawer Configuration

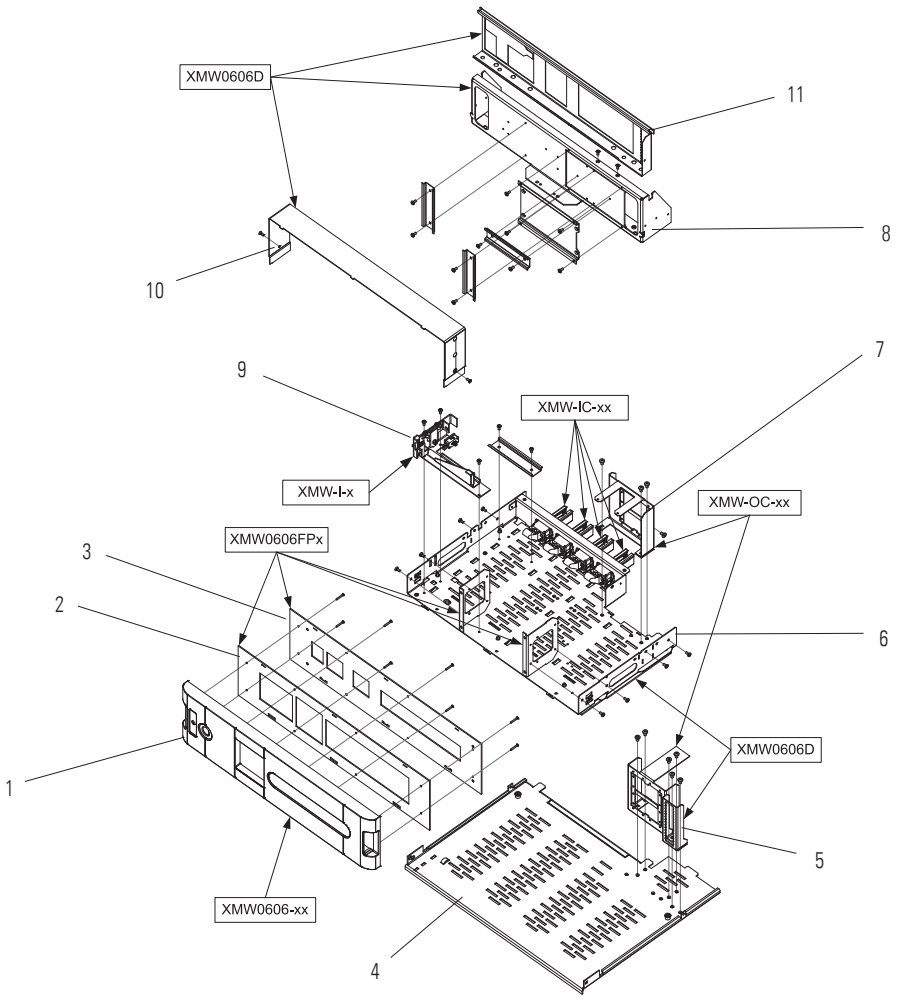
- Configuration ..... Page xx
- Individual parts ..... Page xx
- Accessories ..... Page xx

MCC_Drawer_Konfig_1



Description

MCC_Drawer_Merkm_1



1 Front panel - PVC
2 Sealing
3 Front panel - steel
4 Shelf-board
5 Holder for auxiliary current contacts/ main outgoing contacts
6 Base
7 Holder for outgoing main current contacts (base)
8 Mounting plate
9 Mechanical lock
10 Position indicator (marked in colour)
11 Mounting plate

Features

- Each module can be individually equipped, depending on whether you need a direct starter module or a reverse starter combination. Setup and dimensioning need to be done according to the instructions in the AWA and BA instruction manuals.
- A detailed circuit/wiring diagram provides information on the correct wiring of the switchgear in the module (find it on the page of business partner).
- The front covers of each module come with numerous holes and cut-outs prepared for individual integration of all the controlgear necessary for each module.
- Main current contacting of the modules happens via plug-type contact terminals suitable for the respective rating which are directly mounted on the shelf-board.
- Contacting of control cables happens via a plug-type terminal block reaching directly into the cable connection area, from where it is extremly easy to do the control wiring.
- Suitable terminal labels for auxiliary contacts = “Weidmüller Dekafix 5 mm”.

MCC - Drawer Configuration

Overview of the different drawers listed according to module heights and performance (amperage)

IP31:

Module height mm	Drawers	50 kA Performance or amperage	80 kA Performance or amperage
75	FE3P	16-32 A	16-32 A
	DOL	3-15 kW	0.06-15 kW
	FR	3-15 kW	0.06-15 kW
150	FE3P	20-200 A	20-200 A
	FC3P	20-100 A	20-100 A
	DOL	18.5-45 kW	18.5-45 kW
	FR	18.5-22 kW	-
	SD	5.5-15 kW	7.5-15 kW
225	FE4P	20-200 A	20-200 A
	FC3P	125 A	125 A
	FC4P	20-125 A	20-125 A
	DOL	55-75 kW	55-75 kW
	FR	30-75 kW	18.5-75 kW
	SD	18.5-22 kW	-
300	FE3P	250 A	250 A
	FE4P	250 A	250 A
	FC3P	160-200 A	160-200 A
	DOL	90 kW	90 kW
	FR	-	-
	SD	37-75 kW	18.5-75 kW
450	FE3P	400 A	400 A
	FE4P	400 A	400 A
	FC3P	250-300 A	250-300 A
	FC4P	160-300 A	160-300 A
	DOL	110-160 kW	110-160 kW
	FR	90-110 kW	90-110 kW
As of a height of 600 mm, it is only possible to create a set-up with fixed modules			
600	FE3P	630 A	630 A
	FE4P	630 A	630 A
	FC3P	400-630 A	400-630 A
	FC4P	400-630 A	400-630 A
	DOL	200-250 kW	200-250 kW
	FR	132-160 kW	132-160 kW
	SD	90-250k W	90-250 kW
750	FR	200-250 kW	200-250 kW
	SD	-	250 kW

IP55:

Module height mm	Drawers	50 kA Performance or amperage	80 kA Performance or amperage
75	FE3P	16-25 A	16-25 A
	DOL	3-11 kW	0.06-11 kW
	FR	3-11 kW	0.06-11 kW
150	FE3P	20-160 A	20-160 A
	FC3P	20-80 A	20-80 A
	DOL	15-37 kW	15-37 kW
	FR	15-18.5 kW	-
	SD	5.5-11 kW	7.5-11 kW
225	FE4P	20-160 A	20-160 A
	FC3P	100-125 A	100-125 A
	FC4P	20-125 A	20-125 A
	DOL	45-55 kW	45-55 kW
	FR	22-55 kW	15-55 kW
	SD	15-18.5 kW	-
300	FE3P	200 A	200 A
	FE4P	200 A	200 A
	FC3P	160 A	160 A
	DOL	75 kW	75 kW
	FR	-	-
	SD	22-55 kW	15-55 kW
450	FE3P	400 A	400 A
	FE4P	400 A	400 A
	FC3P	250 A	250 A
	FC4P	160-250 A	160-250 A
	DOL	90-110 kW	90-110 kW
	FR	75-90 kW	75-90 kW
As of a height of 600 mm, it is only possible to create a set-up with fixed modules			
600	FE3P	630 A	630 A
	FE4P	630 A	630 A
	FC3P	400 A	400 A
	FC4P	400 A	400 A
	DOL	132-200 kW	132-200 kW
	FR	110 kW	110 kW
	SD	75-200 kW	75-200 kW
750	FR	132-200 kW	132-200 kW
	SD	250 kW	250 kW

Heights and finishes of the modular drawer technology:

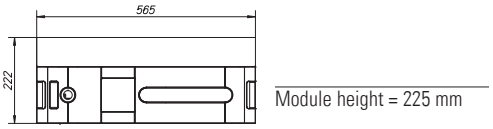
Configurable as energy outgoer, direct starter, reverse starter, star-delta starter



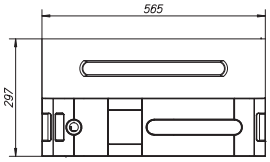
Module height = 75 mm



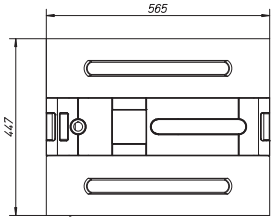
Module height = 150 mm



Module height = 225 mm



Module height = 300 mm



Module height = 450 mm

xE_MCC_2_

Individual Parts for MCCs

Fitting Kit for Motor Control Centers in Withdrawable Design

VT01511



Suitable for: Cable rail area at the rear, outgoing cable area on the right, in IP31 and IP55, for section widths of 1000/1200 mm

Consisting of: Left and right multi-functional side mounting wall, all profiles necessary for fixing the material, incl. all partitions, all screw material and all cable grommets (KT21 and KT42)

Section depth mm	Fitting kits for Motor Control Centers in withdrawable design Module width 600 mm Article No. per unit	Fitting kits for Motor Control Centers in withdrawable design Module width 800 mm Article No. per unit
600	**XSMFDB0606-MC** 151211	-
800	-	**XSMFDB0608-MC** 151212

Partition to Cable Connection Area

VT01611



Consisting of: Mounting plate for terminal mounting, 2x sheet-metal partition panels, 2x mounting profiles, incl. all screw material

Width mm	Partition to cable connection area Module width 600 mm Article No. per unit unit = 1 set	Partition to cable connection area Module width 800 mm Article No. per unit unit = 1 set
1000	**XPFCB04-MC** 151213	-
1200	-	**XPFCB06-MC** 151214

Individual Parts for MCCs

Shutter between Switchgear Area and Dropper Bar, from 35 to 80 kA

VT02911



Consisting of: Sheet-metal partition in 5 parts, incl. plastic parts for contact partition, screw material included

Shutters 35 kA, 50 kA and 65 kA	Shutters 80 kA
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
XPFDM-65-MC 151215	**XPFDM-80-MC** 151216

Lock Cover for Dropper Bar

VT03411



Consisting of: PVC partition and lock spring, screw material included

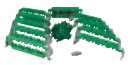
Lock Cover for Dropper Bar
Article No. per unit unit = 25 pcs.
XPFDM-A-MC 151217

. . . also for use in the Main Bus Bar Top (BXT) system

Individual Parts for MCCs

Set of Dropper Bar Supports 1000 A

VT02811



Consisting of: Busbar supports - full and half versions, support for end rail included, Fillers for closing the second rail track in the support, all screws and fixing brackets included

35 kA 1 x 40 x 10	50 kA 1 x 40 x 10	65 kA 1 x 40 x 10	80 kA 1 x 40 x 10
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
XDSF10-35-MC 151200	**XDSF10-50-MC** 151201	**XDSF10-65-MC** 151202	**XDSF10-80-MC** 151203

Set of Dropper Bar Supports 2000 A

VT02711



Consisting of: Busbar supports - full and half versions, support for end rail included, Fillers for closing the second rail track in the support, all screws and fixing brackets included

35 kA 2 x 40 x 10	50 kA 2 x 40 x 10	65 kA 2 x 40 x 10	80 kA 2 x 40 x 10
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
XDSF20-35-MC 151204	**XDSF20-50-MC** 151205	**XDSF20-65-MC** 151206	**XDSF20-80-MC** 151207

Individual Parts for MCCs

Individual Dropper Bar Supports

VT03211, VT03011, VT03111



Consisting of: Busbar supports in three different versions (half version, full version suitable for up to 65 kA, full version with extra enhancement for up to 80 kA), all supports come with fixing brackets and screw material

Half version	Full version	Full version for 80 kA
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
XDSF-H-E-MC 151208	**XDSF-F-65-E-MC** 151209	**XDSF-F-80-E-MC** 151210

Basic Drawer Module

VT04211



Consisting of: Basic module, shelf-board, mounting plate for PKZ/NZM, mounting plate for auxiliary current contacts, shielding plate in PVC, signalling line/position indicator, incl. all screw and fixing material.
Height 600+750 mm = fixed design module, front panels need to be ordered separately for all modules (not included in the scope of delivery for drawers, front will be delivered as module door).

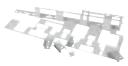
Height 75 mm	Height 150 mm	Height 225 mm	Height 300 mm	Height 450 mm	Height 600 mm for NZM	Height 750 mm for NZM
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
XMW0306D 155242	**XMW0606D** 155243	**XMW0906D** 155244	**XMW1206D** 155245	**XMW1806D** 155246	**XMW2406F** 158538	**XMW3006F** 158539

. . . also for use in the Main Bus Bar Top (BXT) system

Individual Parts for MCCs

Expansion Sets for Smart Wire-DT

Consisting of: Different DIN rails and mounting brackets, adjusted to the drawer height, incl. all screw material

VT00113	VT00213	VT00413	VT00513	VT00313
				
Expansion set H = 75 mm	Expansion set H = 150 mm	Expansion set H = 225 mm	Expansion set H = 300 mm	Expansion set H = 450 mm
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
XMW0306SWD 169875	**XMW0606SWD** 169876	**XMW0906SWD** 169877	**XMW1206SWD** 169878	**XMW1806SWD** 169879

Expansion Set for Soft Starters

Consisting of: Different DIN rails, material included

VT09313	VT09413	VT09513
		
Expansion set H = 75 mm	Expansion set H = 150 mm	Expansion set H = 225 mm
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
XMW0306SS 172204	**XMW0306SS** 172205	**XMW0306SS** 172206

. . . also for use in the Main Bus Bar Top (BXT) system

Individual Parts for MCCs

Openable Metal Front Plates for Drawers, version PKZ

Consisting of: Front plate incl. locks, hinges, screws and handle
A factory-applied foam sealing is in place for IP55 applications. Pre-punched holes of 22.5 mm diameter for a total of 7x RMQ Titan command and signalling devices. One opening for the push-button of the mechanical lock. Drilled holes/cavities for the door-coupling rotary handle are prepared as well. Pre-punched holes that you do not wish to use must be closed with blind plugs. See MCC accessories.

	VT08613	VT09813	VT10013
			
	Height 75 mm	Height 150 mm	Height 225 mm
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
Version IP31 ventilated	**XMW0306CDV** 172190 172334*	**XMW0606CDV** 172191 172335*	**XMW0906CDV** 172193 172319*
Version IP55 closed	**XMW0306CDC** 172182 172326*	**XMW0606CDC** 172183 172327*	**XMW0906CDC** 172185 172329*

Openable Metal Front Plates for Drawers, version NZM

Consisting of: Front plate incl. locks, hinges, screws and handles
A factory-applied foam sealing is used to meet sealing requirements for IP55. Pre-punched holes of 22.5 mm diameter for 7x RMQ Titan command and signalling devices. An opening for the push-button of the mechanical locking system. Openings/cavities for the door-coupling rotary handle are prepared as well. Pre-punched holes you do not wish to use must be closed with blind plugs. See MCC accessories.

	VT09913	VT10113	VT10213	VT10413
				
	Height 150 mm	Height 225 mm	Height 300 mm	Height 450 mm hole for the rotary handle of the main switch at the centre
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
Version IP31 ventilated	**XMW0606CDV-NZM** 172192 172318*	**XMW0906CDV-NZM** 172194 172320*	**XMW1206CDV-NZM** 172195 172321*	**XMW1806CDV-NZM-190** 172197 172323*
Version IP55 closed	**XMW0606CDC-NZM** 172184 172328*	**XMW0906CDC-NZM** 172186 172330*	**XMW1206CDC-NZM** 172187 172331*	**XMW1806CDC-NZM-190** 172189 172333*

Note

* Finish in special RAL colour
. . . also for use in the Main Bus Bar Top (BXT) system

Individual Parts for MCCs

Openable Metal Front Plates for Drawers, version PKZ, closed versiong

Consisting of: Front plate incl. locks, hinges, screws and handle
A factory-applied foam sealing is in place for IP55 applications. One opening for the push-button of the mechanical interlock. Fixing holes for rotary handle are prepared as well. In the closed version, the holes for control switches and lights, has to be punched individually by the user.

	wa_vt00118	wa_vt00218	wa_vt00318
			
	Height 75 mm	Height 150 mm	Height 225 mm
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
Version IP31 without holes for command and signaling devices	**XMW0306CDV-C** 194457	**XMW0606CDV-C** 194458	**XMW0906CDV-C** 194460
Version IP55 closed, without ventilation, without holes for command and signaling devices	**XMW0306CDC-C** 194450	**XMW0606CDC-C** 194451	**XMW0906CDC-C** 194453

Openable Metal Front Plates for Drawers, version NZM, closed versiong

Consisting of: Front plate incl. locks, hinges, screws and handles
A factory-applied foam sealing is used to meet sealing requirements for IP55. One opening for the push-button of the mechanical interlock. Fixing holes for the rotary handle are prepared as well. In the closed version, the holes for control switches and lights, has to be punched individually by the user.

	wa_vt00418	wa_vt00518	wa_vt00618	wa_vt00718
				
	Height 150 mm	Height 225 mm	Height 300 mm	Height 450 mm hole for the rotary handle of the main switch at the centre
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
Version IP31 without holes for command and signaling devices	**XMW0606CDV-NZM-C** 194459	**XMW0906CDV-NZM-C** 194461	**XMW1206CDV-NZM-C** 194462	**XMW1806CDV-NZM-190-C** 194463
Version IP55 closed, without ventilation, without holes for command and signaling devices	**XMW0606CDC-NZM-C** 194452	**XMW0906CDC-NZM-C** 194454	**XMW1206CDC-NZM-C** 194455	**XMW1806CDC-NZM-190-C** 194456

Note

* Finish in special RAL colour
. . . also for use in the Main Bus Bar Top (BXT) system

Individual Parts for MCCs

Module Doors for Fixed Design Modules

Consisting of: Module door, hinges, locking system, incl. screw material.
All doors come with the holes of a rotary door coupling handle, the holes for control lamps or push-buttons are marked so they can easily be drilled whenever required.

wa_vt63113



	Height 600 mm suitable for the lowest position	Height 750 mm suitable for the lowest position	Height 600 mm suitable for the center position	Height 750 mm suitable for the center position
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
Version IP31	**XMW2406CDV-B** 158570 158578*	**XMW3006CDV-B** 158572 158580*	**XMW2406CDV-M** 158571 158579*	**XMW3006CDV-M** 158573 158581*
Version IP55	**XMW2406CDC-B** 158574 158582*	**XMW3006CDC-B** 158576 158584*	**XMW2406CDC-M** 158575 158583*	**XMW3006CDC-M** 158577 158585*

Steel Front Panels (Substructure for Plastic Front Panel)

Consisting of: Steel front panel, incl. screw material, the IP55 steel front panel comes with a foamed sealing

VT03911



	Front Panel Height 75 mm	Front Panel Height 150 mm	Front Panel Height 225 mm	Front Panel Height 300 mm	Front Panel Height 450 mm
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
Version IP31	**XMW0306FP** 152686	**XMW0606FP** 152687	**XMW0906FP** 152688	**XMW1206FP** 152689	**XMW1806FP** 152690
Version IP55	**XMW0306FPC** 155281	**XMW0606FPC** 155282	**XMW0906FPC** 155283	**XMW1206FPC** 155284	**XMW1806FPC** 155285

Note

* Finish in special RAL colour
. . . also for use in the Main Bus Bar Top (BXT) system

Individual Parts for MCCs

Mounting Plates for the Drawer

Consisting of: Mounting plate for NZM/PKZ, mounting plate for auxiliary current contacts, mounting plate for contactor, screw material included

VT02011



Mounting plate Height 75 mm	Mounting plate Height 150 mm	Mounting plate Height 225 mm	Mounting plate Height 300 mm	Mounting plate Height 450 mm	Mounting plate Height 600 mm	Mounting plate Height 750 mm
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
XMW0306M 152663	**XMW0606M** 152664	**XMW0906M** 152665	**XMW1206M** 152666	**XMW1806M** 152667	-	-

Empty space cover

Consisting of: Empty-space cover, fixing bracket, shelf-board, screw material included

VT08406



	Height 75 mm	Height 150 mm	Height 225 mm	Height 300 mm	Height 450 mm
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
Version IP31 Front Panel ventilated	**XMW0306E-V** 152670	**XMW0606E-V** 152671	**XMW0906E-V** 152672	**XMW1206E-V** 152673	**XMW1806E-V** 152674
Version IP55 Front Panel closed	**XMW0306E-C** 152678	**XMW0606E-C** 152679	**XMW0906E-C** 152680	**XMW1206E-C** 152681	**XMW1806E-C** 152682

. . . also for use in the Main Bus Bar Top (BXT) system

Individual Parts for MCCs

Shelf-board

Consisting of: Shelf-board, screw material included

VT01811



Shelf-board IP 2x	Shelf-board for fixed design module IP 2x	Shelf-board for modules with H = 450 mm IP 2x
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
XMW-DP 152669	**XMW-DP-F** 168125	**XMW-DP-18** 168124

Mechanical Lock

Consisting of: Push-button, micro switch, mechanical parts, Bowden cable (with NZM3 / H = 450 mm), screw material included

VT02311



For drawer height 75 mm for PKZM0, PKE	For drawer height 150, 225 mm for PKZM0, PKZM4, PKE	For drawer height 150, 225, 300 mm for NZM1	For drawer height 150, 225, 300 mm for NZM2	For drawer height 450 mm for NZM3
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
XMW-I-1 155247	**XMW-I-2** 155248	**XMW-I-5** 168929	**XMW-I-6** 168930	**XMW-I-3** 155249

Bowden Cable

Consisting of: Bowden Cable

VT03811



for NZM 600 mm Article No.
per unit unit = 1 pc.
XMW-I-BD600 155545

. . . also for use in the Main Bus Bar Top (BXT) system

Individual Parts for MCCs

Unlocking device

Unlocking device for modules with height 225, 300 and 450 mm.
Consisting of: uplock hook/spring, screw material included

VT09213



Unlocking device

Article No.
per unit
unit = 1 set

XMW-L
172177

Push-button

Consisting of: Lockable push-button (RMQ-Titan)

VT05211



Push-button

Article No.
per unit
unit = 1 pc.

M22-DLVHS-W-MCC
153567

Micro Switch

Consisting of: Micro switch (contacting via a 6.3 mm flat-type connector), screw material included

VT04711



Micro Switch

Article No.
per unit
unit = 1 pc.

XMW-MS
152668

. . . also for use in the Main Bus Bar Top (BXT) system

Individual Parts for MCCs

Incoming Main Current Contacts, 3- or 4 poles

Consisting of: Drawer contacts incl. fixing screws for outgoing cable, insulating cups, incl. extra fixing brackets for 630 A and higher

VT03311



3 poles up to 315 A	3 poles up to 630 A incl. fixing brackets	4 poles up to 315 A	4 poles up to 630 A incl. fixing brackets
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
XMW-IC-315-3 151355	**XMW-IC-630-3** 151356	**XMW-IC-315-4** 151358	**XMW-IC-630-4** 15135

Incoming Main Current Contacts, 3- or 4 poles (with longer copper-plate)

Consisting of: Drawer contacts incl. fixing screws for outgoing cable, insulating cups, incl. extra fixing brackets for 630 A and higher. Execution with long copper-plate, useable for cables with bigger cross section.

VT03311



3 poles up to 315 A	3 poles up to 630 A	4 poles up to 315 A	4 poles up to 630 A
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
XMW-ICL-315-3 177616	**XMW-ICL-630-3** 155401	**XMW-ICL-315-4** 177617	**XMW-ICL-630-4** 155402

Encoding Pin Set

VT09113



It is used for clear encoding/assignment of the individual drawers to their correct shelf board. So it is impossible to put a drawer back in the wrong order.
There are 10 encoding possibilities available.
Consisting of: 5 pcs. of metal pins, incl. screws

Encoding Pin Set
Article No. per unit unit = 5 pcs.
XMW-CP 172198

. . . also for use in the Main Bus Bar Top (BXT) system

Individual Parts for MCCs

Outgoing Main Current Contacts 3-, 4- or 6 poles

Consisting of: Jack and connector, incl. 2 fixing brackets,, screw material included

VT03511



	Up to 40 A 2.5-6 mm²	Up to 40 A 6-10 mm²	Up to 100 A 10-25 mm²	Up to 100 A 16-35 mm²	Up to 200 A 25-40 mm²	Up to 200 A 40-70 mm²
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
3+4 poles	**XMW-OC-40-2.5-6** 152649	**XMW-OC-40-6-10** 152650	**XMW-OC-100-10-25** 152651	**XMW-OC-100-16-35** 152652	-	-
3 poles	-	-	-	-	**XMW-OC-200-25-40-3** 152653	**XMW-OC-200-40-70-3** 152654
4 poles	-	-	-	-	**XMW-OC-200-25-40-4** 152655	**XMW-OC-200-40-70-4** 152656
6 poles	**XMW-OC-40-2.5-6-6** 155267	**XMW-OC-40-6-10-6** 155268	**XMW-OC-100-10-25-6** 155269	**XMW-OC-100-16-35-6** 155270	**XMW-OC-200-25-40-6** 155271	**XMW-OC-200-40-70-6** 155272
Suitable for Drawer with height 150 - 300 mm						
3+4 poles	**XMW-OC-40-2.5-6150-300MM** 167562	**XMW-OC-40-6-10-150-300MM** 167560	**XMW-OC-100-10-25-150-300MM** 167561	-	-	-
6 poles	-	**XMW-OC-40-6-10-6-150-300MM** 167563	-	-	-	-

	Up to 350 A H = 300 mm	Up to 350 A H = 450 mm	Up to 650 A
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
3 poles	**XMW-OC-350-M10-3-300MM** 155261	**XMW-OC-350-M10-3-450MM** 155262	**XMW-OC-650-M12-3** 155263
4 poles	**XMW-OC-350-M10-4-300MM** 155264	**XMW-OC-350-M10-4-450MM** 155265	**XMW-OC-650-M12-4** 155266

. . . also for use in the Main Bus Bar Top (BXT) system

Individual Parts for MCCs

Mounting Brackets for Outgoing Main Current Contacts

Consisting of: 2 support brackets (1x for drawer, 1x for shelf-board), screw material included

VT04511



Up to 40 A	Up to 200 A	Up to 350 A H = 300 mm	350 and 650 A H = 450 mm
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
XMW-OC-M-1 152659	**XMW-OC-M-2** 152660	**XMW-OC-M-3** 155273	**XMW-OC-M-4** 155274

Auxiliary Current Contacts

Suitable terminal label: Weidmüller Dekafix 5 mm

wa_vt11814



wa_vt11714



VT03113



VT02913



VT03013



Consisting of: Auxiliary current jack and connector, Weidmüller double plug-type terminal 1.5 mm^2 + cover plate, cable connection DR. H05V-K YF 0,75 mm^2 orange, length = 400 mm, I_{max} = 12 A

2 poles connector	2 poles jack	2 poles no terminal labelling	12 poles terminal labelling on both sides	24 poles terminal labelling on both sides
Article No. per unit unit = 100 pcs.	Article No. per unit unit = 100 pcs.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XMW-AC-1-2P-F 177253	**XMW-AC-1-2P-M** 177254	**XMW-AC-1-2** 171641	**XMW-AC-1-12** 171642	**XMW-AC-1-24** 171643

Fixing Clip for Auxiliary Current Contacts, Contact Grease

Consisting of: 2 small clip plates

Fixing clip	Contact grease cartridge content 800 g
Article No. per unit unit = 50 pcs.	Article No. per unit unit = 1 pc.
XMW-AC-1-S 155541	**XACG800** 171667

. . . also for use in the Main Bus Bar Top (BXT) system

Individual Parts for MCCs

Auxiliary Current Relief Rails - Horizontal

Rated voltage 400/415 V AC

Height mm	Depth mm	Width mm	Auxiliary current relief rails horizontal 2 poles Article No. per unit unit = 1 pc.	Auxiliary current relief rails horizontal 4 poles Article No. per unit unit = 1 pc.
all	all	400	**+MD-HI04H-632** 043698	**+MD-HI04H-634** 044041
		600	**+MD-HI06H-632** 043715	**+MD-HI06H-634** 045324
		800	**+MD-HI08H-632** 043740	**+MD-HI08H-634** 045384
		1000	**+MD-HI10H-632** 044018	**+MD-HI10H-634** 045418
		1200	**+MD-HI12H-632** 070064	**+MD-HI12H-634** 070065
		1400	**+MD-HI14H-632** 135551	**+MD-HI14H-634** 135552

Auxiliary current relief rails vertical

Rated voltage 400/415 V AC

Height mm	Depth mm	Width mm	Auxiliary current relief rails vertical 2 poles Article No. per unit unit = 1 pc.	Auxiliary current relief rails vertical 4 poles Article No. per unit unit = 1 pc.
all	all	all	**+MD-HI19V-322** 043651	**+MD-HI19V-324** 043675

Note Connection to the horizontal auxiliary current rail is included in the scope of delivery. The auxiliary current connector of the drawers is designed for a max. of 10 A.

. . . also for use in the Main Bus Bar Top (BXT) system

Individual Parts for MCCs

Connecting Plug for Auxiliary Current Relief Rails

Connecting plug for auxiliary current relief rails
63 A

Article No.
per unit
unit = 1 pc.

+MD-HI-S631
045592

Auxiliary Current Connection

Section-Section, 2 pole, for 4 pole rails please order 2x

Auxiliary Current Connection

Article No.
per unit
unit = 1 pc.

+MD-HI-VB632
093519

Edge Protective Strip

For steel sheet thickness up to max. 1.6 mm

VT12614



Edge Protective Strip
KG016

Article No.
per unit
unit = 10 m

XAK16
172203

. . . also for use in the Main Bus Bar Top (BXT) system

Individual Parts for MCCs

Set of Cover Strips

Consisting of: 2 cover strips, 4 fixing brackets, incl. screw material
For IP31= ventilated, IP55 closed

VT02211



Set of Cover Strips Top and Bottom IP31	Set of Cover Strips Top and Bottom IP55
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
XMCTB-V-MC 151218	**XMCTB-C-MC** 151219

Fixing Set for the Earthing Bar in the Cable Connection Area

Consisting of: 4 bolts M10, 4 hexagon nuts M10, 4 spring washers M10

VT03711

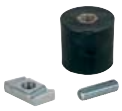


Fixing set for earthing bar
Article No. per unit unit = 1 set
XDSFP-MC 151220

Fixing Set for the Neutral Conductor Bar in the Cable Connection Area

Consisting of: 4 threaded plates M10, 4 threaded pins M10x30, 4 insulators H = 40 mm

VT03611



VT00912



Fixing set for neutral conductor bar	Isolator M10 H = 50 mm	Isolator M12 H = 50 mm
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
XDSFN-MC 151221	**XNNIP-50-M10** 179779	**XNNIP-50-M12** 167559

. . . also for use in the Main Bus Bar Top (BXT) system

Individual Parts for MCCs

Label Carriers for MCC Modules

Suitable for lamps/push-buttons of the RMQ series Ø 22.5 mm

VT01012



Label carriers

Article No. per unit unit = 25 pcs.
M22S-ST-X 216392

. . . also for use in the Main Bus Bar Top (BXT) system

Individual Parts for MCCs: Additional insulation materials necessary for U_e > 415 V

Insulation plates

Insulation plate for covering breaker terminals

Vt39716



vt39916



Poles	NZM2 Article No. per unit unit = 1 pc.	NZM3 Cu = 30/5 mm Article No. per unit unit = 1 pc.	NZM3 Cu = 30/10 mm Article No. per unit unit = 1 pc.
3 poles	**XPA-NZM2-3-ARC** 185206	**XPA-MCC-NZM3-3P** 191052	**XPA-NZM3-3-ARC** 185208
4 poles	**XPA-NZM2-4-ARC** 185207	**-**	**XPA-NZM3-4-ARC** 185209

Upgrade Kits

Insulation walls between the conductors

NZM2 Drawer height = 150 mm Article No. per unit unit = 1 pc.	NZM2 Drawer height = 600-750 mm Article No. per unit unit = 1 pc.	NZM3 Drawer height = 225/300 mm Article No. per unit unit = 1 pc.	NZM3 Drawer height = 450 mm Article No. per unit unit = 1 pc.	NZM3 Drawer height = 600-750 mm Article No. per unit unit = 1 pc.
XPA-690V-H150 191053	**XPA-690V-H600-750-2** 191057	**XPA-690V-H225+300** 191054	**XPA-690V-H450-NZM3** 191056	**XPA-690V-H600-750-3** 191058

ARC-Tape

Electrical insulating tape, self-sealing made of PP rubber

ARC-Tape Article No. per unit unit = 1 pc.
ARC-TAPE/025/7M 184976

. . . also for use in the Main Bus Bar Top (BXT) system

Accessories

Terminals

wa_sg02913



Including label tags for terminals of type U, V, W - X, Y, Z - L1, L2, L3 - T1, T2, T3 - PE, N, PEN.
External connection for round or sector-shaped conductors, other end for a flat Cu strip (Cu bar).
Suitable for copper and aluminium conductors.
Types ...BR for round or sector-shaped cable connection on both ends.

	1 poles Article No. per unit unit = 1 set	3 poles Article No. per unit unit = 1 set	4 poles Article No. per unit unit = 1 set	5 poles Article No. per unit unit = 1 set	1 poles not suitable for Cu strip or Cu bar Article No. per unit unit = 1 set
I_e = 160 A	**K95/1N** 010773	**K95/3** 025017	**K95/4** 027390	**K95/5** 029763	**K95/1N/BR** 012336
I_e = 250 A	**K150/1** 089085	**K150/3** 032136	**K150/4** 034509	**K150/5** 036882	**K150/1/BR** 014709
I_e = 400 A	**K240/1** 091458	**K240/3** 039255	**K240/4** 041628	**K240/5** 044001	**K240/1/BR** 017082
I_e = 630 A	**K2X240/1** 093831	**K2X240/3** 046374	**K2X240/4** 048747	**K2X240/5** 051120	**K2X240/1/BR** 019455

Conversion Kits for Connection Terminals (for one conductor)

Can be used for one conductor. For conversion from a flat strip to a cable connection.

VT10408



For K95/... I_e = 160 A	For K150/... I_e = 250 A	For K240/... I_e = 400 A	For K2X240/... I_e = 630 A
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
D-K95 020277	**D-K150** 022650	**D-K240** 025023	**D-2X240** 027396

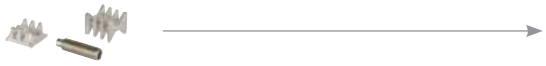
. . . also for use in the Main Bus Bar Top (BXT) system

Accessories

Conversion Kits for Connection Terminals (for one Auxiliary Conductor)

Can be used for one auxiliary conductor. M4 screw with thrust washer. Cross section of connections 0.5 to 2.5 mm².

VT10408



For K95/... and K150/...	For K240/...	For K2X240/...
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
HK-K95-K150 001916	**HK-K240** 098585	**HK-K2X240** 010785

Terminal Covers 5 poles

Incl. warning sign. According to DIN (lightning flash symbol). By splitting the block, you will get terminal covers for 3 or 4 poles.

wa_vt23613



For K95/...	For K150/...	For K240/...	For K2X240/...
Article No. per unit unit = 4 pcs.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
H-K95/5 036888	**H-K150/5** 039261	**H-K240/5** 041634	**H-K2X240/5** 044007

Cable Ducts - screw-fixed

Delivery length: 1500 mm

VT08309, VT08709



Width = 34 mm Height = 37 mm	Width = 34 mm Height = 63 mm	Width = 73 mm Height = 63 mm
Article No. per unit unit = 60 pcs.	Article No. per unit unit = 40 pcs.	Article No. per unit unit = 20 pcs.
KL25/35 012531	**KL25/60** 017277	**KL60/60** 029142

. . . also for use in the Main Bus Bar Top (BXT) system

Accessories

Cable Ducts - screw-fixed

Delivery length: 650 mm. Ambient temperature max. +55 °C.

VT08309, VT08709



Width = 34 mm
Height = 37 mm

Article No. per unit unit = 50 pcs.
KL25/35K 014904

Cover for Cable Duct

Delivery length: 1500 mm. Delivered as a spare part.

VT08709



Width = 34 mm Height = 14 mm	Width = 73 mm Height = 14 mm
Article No. per unit unit = 60 pcs.	Article No. per unit unit = 40 pcs.
KD25 019649	**KD60** 024395

Universal Conductor Connection Terminal 10 mm

With integrated retention spring, captive terminal screw. For 10 mm thick flat rails.

VT13806



16 mm²
I_e = 180 A

Article No.
per unit
unit = 100 pcs.

AKU16/10
107191

VT13706



35 mm²
I_e = 270 A

Article No.
per unit
unit = 50 pcs.

AKU35/10
107192

VT13606



70 mm²
I_e = 400 A
also for double
T-profile

Article No.
per unit
unit = 25 pcs.

AKU70/10
107193

VT13506



120 mm²
I_e = 440 A
also for double
T-profile

Article No.
per unit
unit = 25 pcs.

AKU120/10
107194

. . . also for use in the Main Bus Bar Top (BXT) system

Accessories

Cable Grommets

For a wall thickness from 2 to 8 mm. RAL 7035. Soft PVC, cadmium and lead-free. IP66, with cable insertion from the bottom.

VT33710



PG21	PG42
Drill hole diameter 29,5 mm	Drill hole diameter 55 mm
Outer cable diameter 12.5-20 mm	Outer cable diameter 18-47 mm
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
KT21 026777	**KT42** 038642

Blind Plug

RAL 7035. IP67. For diameter 22.5 mm.

01093088_0



PG16
Article No. per unit unit = 50 pcs.
M22-M 216388

. . . also for use in the Main Bus Bar Top (BXT) system

Accessories

Label Tags

VT04811



VT04811



VT04811



kW	Article No. per unit unit = 10 pcs.
Label Tags DOL	
0.06	**XANP-MC-DOL0,06KW** 155291
0.09	**XANP-MC-DOL0,09KW** 155292
0.12	**XANP-MC-DOL0,12KW** 155293
0.18	**XANP-MC-DOL0,18KW** 155294
0.25	**XANP-MC-DOL0,25KW** 155295
0.37	**XANP-MC-DOL0,37KW** 155296
0.55	**XANP-MC-DOL0,55KW** 155297
0.75	**XANP-MC-DOL0,75KW** 155298
1.1	**XANP-MC-DOL1,1KW** 155299
1.5	**XANP-MC-DOL1,5KW** 155300
2.2	**XANP-MC-DOL2,2KW** 155301
3	**XANP-MC-DOL3KW** 155302
4	**XANP-MC-DOL4KW** 155303
5.5	**XANP-MC-DOL5,5KW** 155304
7.5	**XANP-MC-DOL7,5KW** 155305
11	**XANP-MC-DOL11KW** 155306
15	**XANP-MC-DOL15KW** 155307
18.5	**XANP-MC-DOL18,5KW** 155308
22	**XANP-MC-DOL22KW** 155309
30	**XANP-MC-DOL30KW** 155310
37	**XANP-MC-DOL37KW** 155311
45	**XANP-MC-DOL45KW** 155312
55	**XANP-MC-DOL55KW** 155313
75	**XANP-MC-DOL75KW** 155314
90	**XANP-MC-DOL90KW** 155315
110	**XANP-MC-DOL110KW** 155316
132	**XANP-MC-DOL132KW** 155317
160	**XANP-MC-DOL160KW** 155318
200	**XANP-MC-DOL200KW** 155319

kW	Article No. per unit unit = 10 pcs.
Label Tags FR	
0.06	**XANP-MC-FR0,06KW** 155320
0.09	**XANP-MC-FR0,09KW** 155321
0.12	**XANP-MC-FR0,12KW** 155322
0.18	**XANP-MC-FR0,18KW** 155323
0.25	**XANP-MC-FR0,25KW** 155324
0.37	**XANP-MC-FR0,37KW** 155325
0.55	**XANP-MC-FR0,55KW** 155326
0.75	**XANP-MC-FR0,75KW** 155327
1.1	**XANP-MC-FR1,1KW** 155328
1.5	**XANP-MC-FR1,5KW** 155329
2.2	**XANP-MC-FR2,2KW** 155330
3	**XANP-MC-FR3KW** 155331
4	**XANP-MC-FR4KW** 155332
5.5	**XANP-MC-FR5,5KW** 155333
7.5	**XANP-MC-FR7,5KW** 155334
11	**XANP-MC-FR11KW** 155335
15	**XANP-MC-FR15KW** 155336
18.5	**XANP-MC-FR18,5KW** 155337
22	**XANP-MC-FR22KW** 155338
30	**XANP-MC-FR30KW** 155339
37	**XANP-MC-FR37KW** 155340
45	**XANP-MC-FR45KW** 155341
55	**XANP-MC-FR55KW** 155342
75	**XANP-MC-FR75KW** 155343
90	**XANP-MC-FR90KW** 155344
110	**XANP-MC-FR110KW** 155345
132	**XANP-MC-FR132KW** 155346
160	**XANP-MC-FR160KW** 155347
200	**XANP-MC-FR200KW** 155348

kW	Article No. per unit unit = 10 pcs.
Label Tags SD	
5.5	**XANP-MC-SD5,5KW** 155349
7.5	**XANP-MC-SD7,5KW** 155350
11	**XANP-MC-SD11KW** 155351
15	**XANP-MC-SD15KW** 155352
18.5	**XANP-MC-SD18,5KW** 155353
22	**XANP-MC-SD22KW** 155354
30	**XANP-MC-SD30KW** 155355
37	**XANP-MC-SD37KW** 155356
45	**XANP-MC-SD45KW** 155357
55	**XANP-MC-SD55KW** 155358
75	**XANP-MC-SD75KW** 155359
90	**XANP-MC-SD90KW** 155360
110	**XANP-MC-SD110KW** 155361
132	**XANP-MC-SD132KW** 155362
160	**XANP-MC-SD160KW** 155363
200	**XANP-MC-SD200KW** 155364
250	**XANP-MC-SD250KW** 155365

. . . also for use in the Main Bus Bar Top (BXT) system

Accessories

Label Tags (continued)

VT04811



VT04811



A	Article No. per unit unit = 10 pcs.
Label Tags FE	
20	**XANP-MC-FE20A** 155366
25	**XANP-MC-FE25A** 155367
32	**XANP-MC-FE32A** 155368
40	**XANP-MC-FE40A** 155369
50	**XANP-MC-FE50A** 155370
63	**XANP-MC-FE63A** 155371
80	**XANP-MC-FE80A** 155372
100	**XANP-MC-FE100A** 155373
125	**XANP-MC-FE125A** 155374
160	**XANP-MC-FE160A** 155375
200	**XANP-MC-FE200A** 155376
250	**XANP-MC-FE250A** 155377
300	**XANP-MC-FE300A** 155378
320	**XANP-MC-FE320A** 155379
400	**XANP-MC-FE400A** 155380
630	**XANP-MC-FE630A** 155382

A	Article No. per unit unit = 10 pcs.
Label Tags FC	
20	**XANP-MC-FC20A** 155383
25	**XANP-MC-FC25A** 155384
32	**XANP-MC-FC32A** 155385
40	**XANP-MC-FC40A** 155386
50	**XANP-MC-FC50A** 155387
63	**XANP-MC-FC63A** 155388
80	**XANP-MC-FC80A** 155389
100	**XANP-MC-FC100A** 155390
125	**XANP-MC-FC125A** 155391
160	**XANP-MC-FC160A** 155392
200	**XANP-MC-FC200A** 155393
250	**XANP-MC-FC250A** 155394
300	**XANP-MC-FC300A** 155395
400	**XANP-MC-FC400A** 155397
630	**XANP-MC-FC630A** 155399

	Article No. per unit unit = 10 pcs.
Label Tag - blank	
	XANP-MC-EMPTY 155400

. . . also for use in the Main Bus Bar Top (BXT) system

Accessories

Cable Tie Wraps

VT05111



Length = 98 mm	Length = 140 mm	Length = 2005 mm
Article No. per unit unit = 1000 pcs.	Article No. per unit unit = 1000 pcs.	Article No. per unit unit = 100 pcs.
ITB1 083550	**ITB2** 085923	**ITB3** 088296

DIN Rail

When used as a PE conductor, the short-circuit strength corresponds to a 16 mm² Cu conductor. Delivery length = 2 m

VT07310



DIN rail

Article No. per unit unit = 20 pcs.
TS35X7,5 053030

Mounting Brackets, inclined

For mounting TS35X7,5 or TS35X15 support rails in an inclined position. Sheet steel, zinc-plated.

VT16310



Mounting Brackets, inclined

Article No. per unit unit = 100 pcs.
TS1-BRA-CS 138772

. . . also for use in the Main Bus Bar Top (BXT) system

Accessories

Cable Guidance Clips

Cable holder with fixing anchor (halogen-free). Drill hole for fixing = Ø 4.7 mm. Max. number of cables in a bundle = 20 x 11 mm.

VT01112



Cable Guidance Clips

Article No. per unit unit = 100 pcs.
XACACLIP 166691

Design Strip - Rain Top

VT04111



To reach IP31 with drawers in test position or in open position you need to use a protruding design strip (rain shield). So the drawers are protected against vertical dripping water. Without a rain shield you will reach IP30.

Width = 1000 mm	Width = 1200 mm
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XSDR10-X1-B 155542	**XSDR12-X1-B** 155543

. . . also for use in the Main Bus Bar Top (BXT) system

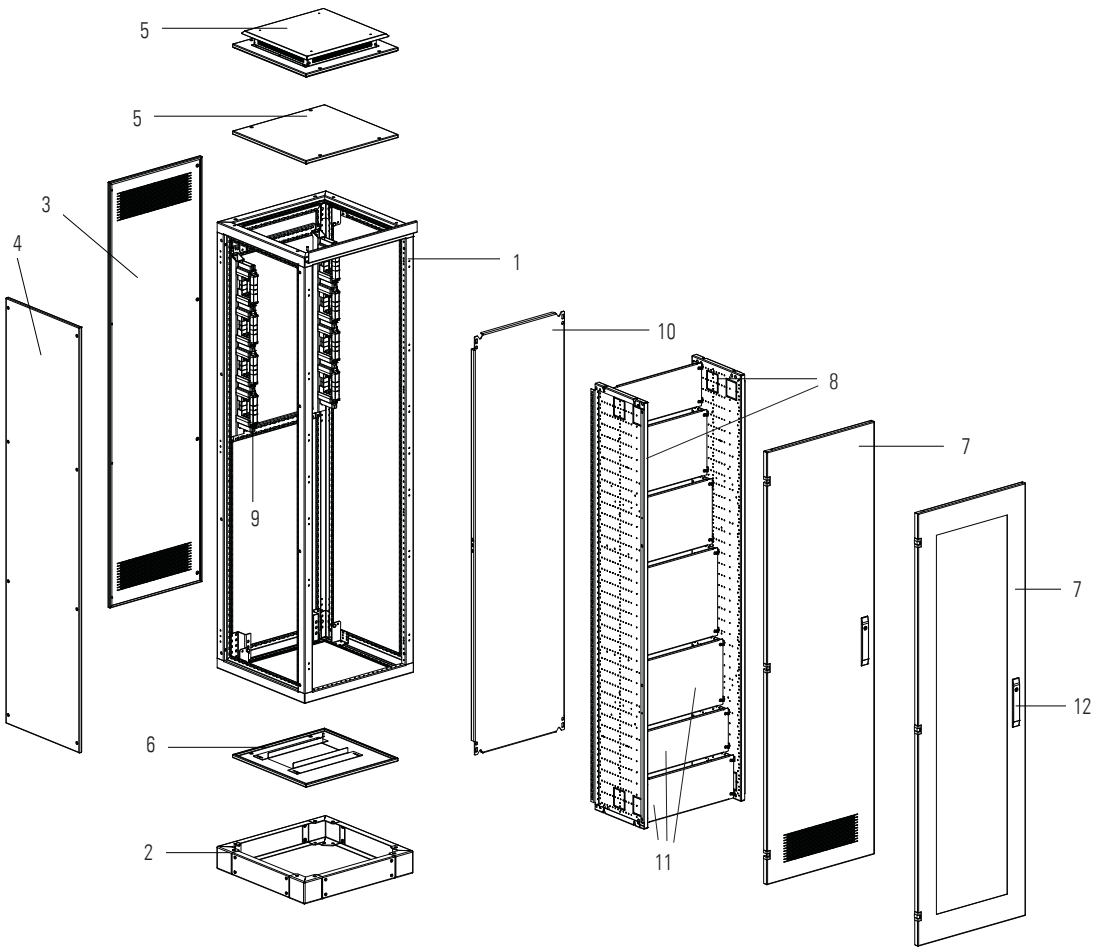
Notes

XG = Empty sections for general equipment

• General sections for mounting plates xBoard Profi Plus installation ..... Page xx
• General section for power factor correction units from Frako ..... Page xx
• General section for power factor correction units from KBR ..... Page xx

Description

XE_kat_5-1



1 Frame
2 Plinth
3 Rear panel
4 Side panel
5 Top panel
6 Bottom panel
7 Door/glass door
8 Universal mounting plate
9 Support for main busbar
10 Mounting plate as high as section
11 Mounting plate in different heights
12 Lock mechanism

Features

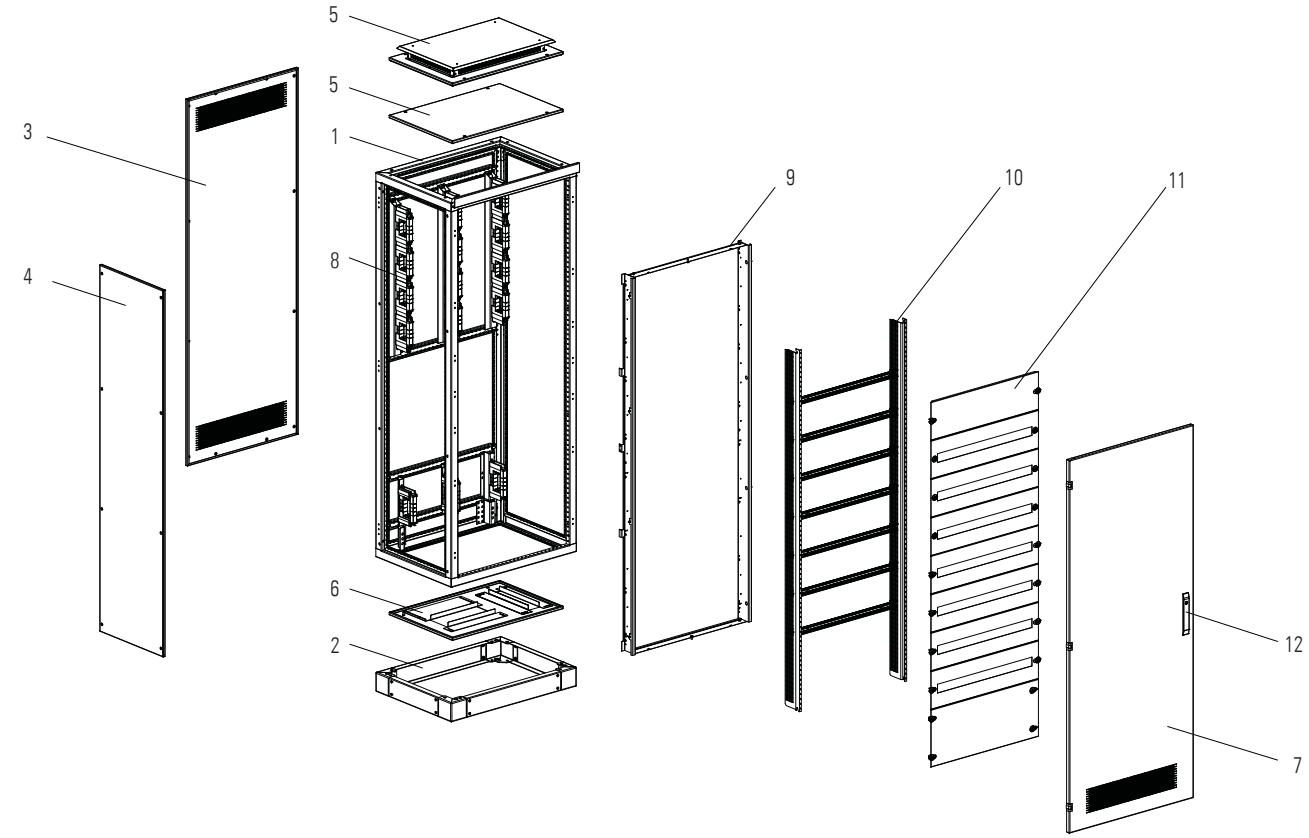
- Individual fixed mounting units on mounting plates
- Control technology - you can install mounting plates as high as the section or split ones
- Section height 2000 mm
- Section depths of 400/600/800 mm
- Section widths of 425/600/800/1000/1200 mm
- IP31/55

Notes

Frame comes with a blue design strip.
Doors include locking system for 3 mm two-way key bit.
Where cover plates in several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durostone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

Description

Katalog 4-1_XBH



1 Frame
2 Plinth
3 Rear panel
4 Side panel
5 Top panel
6 Bottom panel
7 Door
8 Support for main busbar
9 Mounting frame
10 Mounting insert
11 Front plates
12 Lock mechanism

Features

- Section height 2000 mm
- Section depths of 400/600/800 mm
- Section widths of 425/600/800/1000/1200 mm
- IP31/55
- Mounting systems for xBoard Profi+ devices for modular installation

Notes

Frame comes with a blue design strip.
Doors include locking system for 3 mm two-way key bit.
Where cover plates in several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durostone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

xEnergy Main Switchboards

General Mounting Units, Main Busbars rear-mounted (HSS)

wa_vt77213



wa_vt28213



wa_vt71913



VT00109



Section depth mm	Section width mm	Separation panel main busbar area/switchgear area Article No. per unit	Fitting kit [1] multi-functional support panels for HSH, only necessary where several mounting plates are used Article No. per unit
400	425	**XPFCB04/06** 110265	**XSMIB20-1** 107292
	600	**XPFCB04/06** 110265	**XSMIB20-1** 107292
	800	**XPFCB08/10** 110266	**XSMIB20-1** 107292
	1000	**XPFCB08/10** 110266	**XSMIB20-1** 107292
600	425	**XPFCB04/06** 110265	**XSMIB20** 284257
	600	**XPFCB04/06** 110265	**XSMIB20** 284257
	800	**XPFCB08/10** 110266	**XSMIB20** 284257
	1000	**XPFCB08/10** 110266	**XSMIB200** 284257
	1200	**XPFCB12** 110267	**XSMIB20** 284257
800	425	**XPFCB04/06** 110265	**XSMIB20** 284257
	600	**XPFCB04/06** 110265	**XSMIB20** 284257
	800	**XPFCB08/10** 110266	**XSMIB20** 284257
	1000	**XPFCB08/10** 110266	**XSMIB20** 284257
	1200	**XPFCB12** 110267	**XSMIB20** 284257

Note [1] Double-wing door

VT20509



wa_vt69113



wa_vt54313



wa_vt08513



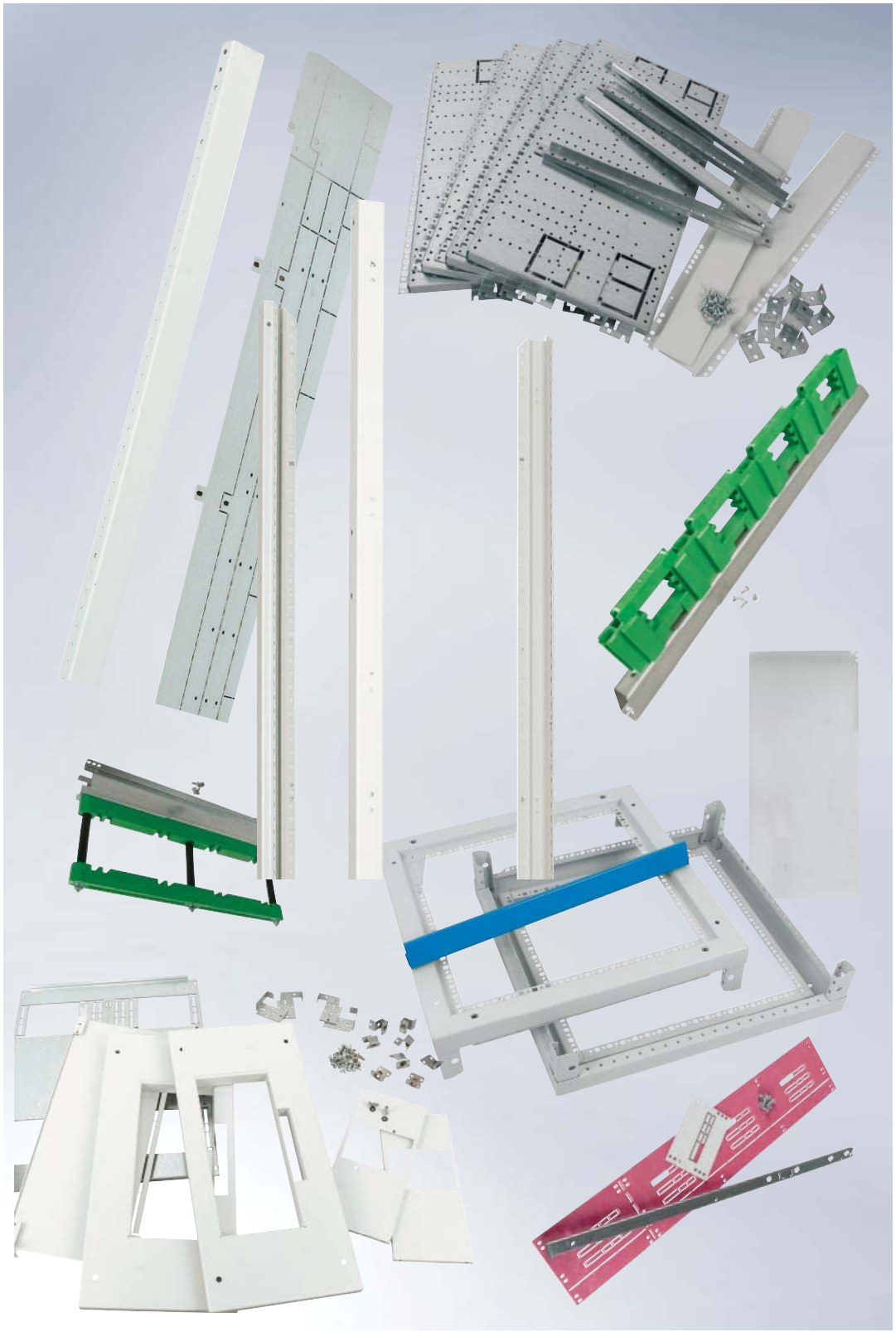
wa_vt54213



Mounting plates total height of section Article No. per unit	Mounting plates available as of a height of 100 mm Article No. per unit	Mounting frame [2] for installation outgoers xBoard Profi+ in xEnergy Main, max. installation depth in the door to the switchgear area is 135 mm H = 2000 mm Article No. per unit	Mounting frame [2] for installation outgoers xBoard Profi+ in xEnergy Main, max. installation depth in the door to the switchgear area is 185 mm H = 2000 mm Article No. per unit	Mounting frame [2] for use with fixed installation, without MSW (swing out impossible) supporting bracket for front panels required H = 2000 mm Article No. per unit
XSMMFB2004 284263	see page xx	**XVTL-BP-W-4/20** 115203	**XVTL-BP-W-4/20-185** 120624	**XVTLBP-F-4/20** 115173
XSMMFB2006 284264	see page xx	**XVTL-BP-W-6/20** 115210	**XVTL-BP-W-6/20-185** 120628	**XVTLBP-F-6/20** 115180
XSMMFB2008 284265	see page xx	**XVTL-BP-W-8/20** 115216	**XVTL-BP-W-8/20-185** 120631	**XVTLBP-F-8/20** 115186
XSMMFB2010 284266	see page xx	**XVTL-BP-W-10/20** 115222	**XVTL-BP-W-10/20-185** 120634	**XVTLBP-F-10/20** 115192
XSMMFB2004 284263	see page xx	**XVTL-BP-W-4/20** 115203	**XVTL-BP-W-4/20-185** 120624	**XVTLBP-F-4/20** 115173
XSMMFB2006 284264	see page xx	**XVTL-BP-W-6/20** 115210	**XVTL-BP-W-6/20-185** 120628	**XVTLBP-F-6/20** 115180
XSMMFB2008 284265	see page xx	**XVTL-BP-W-8/20** 115216	**XVTL-BP-W-8/20-185** 120631	**XVTLBP-F-8/20S** 115186
XSMMFB2010 284266	see page xx	**XVTL-BP-W-10/20** 115222	**XVTL-BP-W-10/20-185** 120634	**XVTLBP-F-10/20** 115192
XSMMFB2012 284267	see page xx	**XVTL-BP-W-12/20** 115228	**XVTL-BP-W-12/20-185** 120637	**XVTLBP-F-12/20** 115198
XSMMFB2004 284263	see page xx	**XVTL-BP-W-4/20** 115203	**XVTL-BP-W-4/20-185** 120624	**XVTLBP-F-4/20** 115173
XSMMFB2006 284264	see page xx	**XVTL-BP-W-6/20** 115210	**XVTL-BP-W-6/20-185** 120628	**XVTLBP-F-6/20** 115180
XSMMFB2008 284265	see page xx	**XVTL-BP-W-8/20** 115216	**XVTL-BP-W-8/20-185** 120631	**XVTLBP-F-8/20** 115186
XSMMFB2010 284266	see page xx	**XVTL-BP-W-10/20** 115222	**XVTL-BP-W-10/20-185** 120634	**XVTLBP-F-10/20** 115192
XSMMFB2012 284267	see page xx	**XVTL-BP-W-12/20** 115228	**XVTL-BP-W-12/20-185** 120637	**XVTLBP-F-12/20** 115198

Note [2] For more individual components, please refer to the Profi+ catalogue

Components General Mounting Units



Accessories Allgemein

Frames



For all other individual components, please refer to the Profi+ catalogue (front panels, switchgear bars, ...)

Section width mm	Fitting frame for installation outgoers xBoard Profi+, max. fitting depth in door to switchgear area is 135 mm H = 2000 mm Article No. per unit unit = 1 set	Fitting frame for installation outgoers xBoard Profi+, max. fitting depth in door to switchgear area is 185 mm H = 2000 mm Article No. per unit unit = 1 set	Mounting frame for installation outgoers xBoard Profi+ to be used for fixed installation, without MSW (cannot be turned out), in addition you will need support brackets for the front panels H = 2000 mm Article No. per unit unit = 1 set
425	**XVTL-BP-W-4/20** 115203	**XVTL-BP-W-4/20-185** 120624	**XVTL-BP-F-4/20** 115173
600	**XVTL-BP-W-6/20** 115210	**XVTL-BP-W-6/20-185** 120628	**XVTL-BP-F-6/20** 115180
800	**XVTL-BP-W-8/20** 115216	**XVTL-BP-W-8/20-185** 120631	**XVTL-BP-F-8/20** 115186
1000	**XVTL-BP-W-10/20** 115222	**XVTL-BP-W-10/20-185** 120634	**XVTL-BP-F-10/20** 115192
1200	**XVTL-BP-W-12/20** 115228	**XVTL-BP-W-12/20-185** 120637	**XVTL-BP-F-12/20** 115198

Mounting Plates as high as the Section, Mounting Plates without holes in divers heights

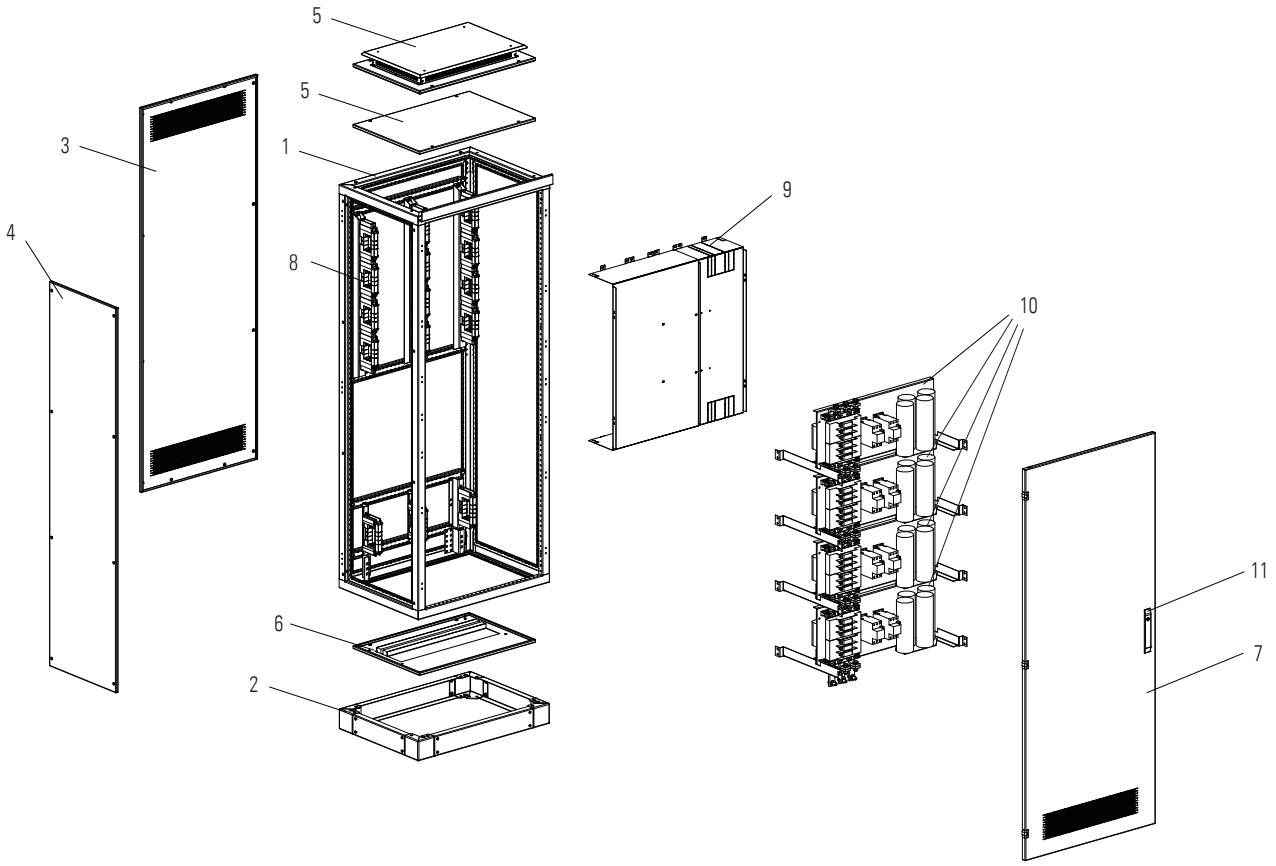
Incl. fastening material



Section width mm	Mounting plate as high as the section Article No. per unit unit = 1 set	H = 50 mm Article No. per unit unit = 1 set	H = 100 mm Article No. per unit unit = 1 set	H = 150 mm Article No. per unit unit = 1 set	H = 200 mm Article No. per unit unit = 1 set	H = 300 mm Article No. per unit unit = 1 set	H = 400 mm Article No. per unit unit = 1 set	H = 600 mm Article No. per unit unit = 1 set	H = 800 mm Article No. per unit unit = 1 set
425	**XSMMFB2004** 284263	**XME0204M** 283923	**XME0404M** 283929	**XME0604M** 284727	**XME0804M** 283941	**XME1204M** 285684	**XME1604M** 283949	**XME2404M** 285685	-
600	**XSMMFB2006** 284264	**XME0206M** 283925	**XME0406M** 283933	**XME0606M** 284728	**XME0806M** 283945	**XME1206M** 285686	**XME1606M** 283951	**XME2406M** 285687	**XME3206M** 126010
800	**XSMMFB2008** 284265	-	**XME0408M** 285689	**XME0608M** 285690	**XME0808M** 285691	**XME1208M** 285692	**XME1608M** 285693	**XME2408M** 285694	-
1000	**XSMMFB2010** 284266	-	**XME0410M** 285695	**XME0610M** 285696	**XME0810M** 285697	**XME1210M** 285698	**XME1610M** 285699	**XME2410M** 285700	-
1200	**XSMMFB2012** 284267	-	-	-	-	-	-	**XME2412M** 102810	-

Description

Katalog 5-1-kommpens



1 Frame
2 Plinth
3 Rear panel
4 Side panel
5 Top panel
6 Bottom panel
7 Door to switchgear area
8 Main busbar support
9 Partition main busbar area/switchgear area
10 Correction module
11 Lock mechanism

Features

- Section widths of 600/800 mm
- Module widths of 600/800 mm
- Can be installed up to zu 500 kVAr
- Suitable with or without main busbar
- Suitable for main busbar top-mounted and rear-mounted
- Suitable for section depths of 600/800 mm
- IP31/55

Notes

Frame comes with a blue design strip.
Doors include locking system for 3 mm two-way key bit.
Fitting kits pre-drilled, incl. of all fixing elements.
Where cover plates in several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durostone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

Correction components from Frako

Supplier of correction modules, regulators and fans is the company FRAKO. The set-up of the xEnergy Main sections will be based on the offer and the set-up instructions of the company FRAKO.

Address:
FRAKO GmbH, Tscheulinstr. 21 A, D-79331 Teningen, Germany
Phone: +49 (0)7641-453-0, Fax. +49 (0)7641-453-535

Power factor in kvar

Degree of protection IP31			Degree of protection IP54/55[2]	
with protective top	with closed cover plate and top-mounted fan		with door fan	
unchoked	choked[1] 5.67 %; 7 %; 8 %	unchoked	choked[1] 5.67 %; 7 %; 8 %	unchoked
kvar	kvar	kvar	kvar	kvar
400	400	–	400	200 – 400
400	500	500	400	200 – 400
400	400	–	300	200 – 300

Section

Version	Dimensions
	Height x Width x Depth mm
without main busbar	2000 x 600 x 600 / 800 2000 x 800 x 600 / 800
with rear-mounted main busbar	2000 x 800[2] x 600 / 800
with top-mounted main busbar	2000 x 600 x 600 2000 x 800 x 600

Notes:

[1] Choked to 13.5 % available upon request.
[2] If a busbar separation on the right side is necessary for transport purposes, **a 75 mm** wide add-on frame XSAF2001... **must be used** in order to ensure access.

Planning notes for the installation of power factor correction components:

- Installation of 500 kvar is only possible in case of direct connection to the main busbar.
- In case a cable connection is used for the correction section, a max. of 400 kvar can be installed.
- If you install a disconnector or a back-up fuse, the correction factor that can be installed is limited to 300 kvar (this applies to sections with and without a main busbar).

Version FRAKO	Series resonance frequency	Choking factor for	Networks using an energy supplier's sound frequency[3]
-P8	177 Hz	p = 8 %	≥ 217 Hz
-P7	189 Hz	p = 7 %	≥ 228 Hz
-P5	210 Hz	p = 5.67 %	≥ 270 Hz

Notes:

[3] Any different regulations applying to energy suppliers must be taken into account.

Planning notes for the set-up of sections:

– Vertical profiles XSFH20 and frame XSFB08..., e.g. to be selected from sections for general mounting units

- For an IP31 degree of protection you will need:
– Door ventilated XSDML(R)V20...
– Rear panel ventilated XSWV20...
– Cover plate closed XSPTC... with top-mounted fan
– Protective top XAD... with 400 kvar unchoked without fan
– Bottom panel closed XSPBM...
– Separation section/section XPSS..., in case of correction sections with a fan this is necessary on both sides towards the adjacent panels (not applicable if a side panel or separation p. section/section already exists in the adjacent section).
– Side panel XAW.. if required.

- For an IP55 degree of protection you will need:
– Door closed XSDMC20...
– Rear panel closed XSWC20...
– Cover plate closed XSPTC...
– Bottom panel closed XSPBM...
– Separation section/section XPSS..., necessary on both sides towards adjacent sections (not applicable if a side panel or separation p. section/section already exists in the adjacent section).
– Side panel XAW.. if required.

VT25009

wa_vt56913



Fitting kits	Type of Article No. for one unit each
Profile for the installation of a power faction correction system	
• only required for sections with rear-mounted busbars • 2 units required for each section	**XSMPB20** 288997

Fitting kits	Type of Article No. for one unit each
Separation panel main busbar area at the rear/switchgear area	
• Partition main busbar	**XPFCB08/10** 110266
• only for sections with rear-mounted busbar • for internal separation Form 2	**XPBM2008** 288998

Ordering aid for power factor correction components from FRAKO

Supplier of correction modules, regulators and fans is the company FRAKO. The set-up of the xEnergy Main sections will be based on the offer and the set-up instructions of the company FRAKO.

Address:
FRAKO GmbH, Tscheulinstr. 21 A, D-79331 Teningen, Germany
Phone: +49 (0)7641-453-0, Fax. +49 (0)7641-453-535

Total power kvar	Power range kvar	Switching sequence	Type of Article No.
Modules unchoked for a section width of 600 mm and a section depth of 600/800 mm for all versions			
Dimensions (W x H x D) 500 x 300 x 350 mm			
50	12.5	1:1:2	**C64C-50-12.5-21-400/440-64**
50	25	1:1	**C64C-50-25-2-400/440-64**
50	50	1	**C64C-50-50-1-400/440-64**
100	12.5	1:1:2:4	**C64C-100-12.5-211-400/440-64**
100	25	1:1:2	**C64C-100-25-21-400/440-64**
100	50	1:1	**C64C-100-50-2-400/440-64**
Additional equipment: Set of support rails, complete for C-modules in xEnergy Main 600 mm deep			
For rear-mounted busbars			34-80173
Without busbars or for top-mounted busbars			34-80174
Modules choked for a section width of 600 mm and a section depth of 600/800 mm without busbars			
Dimensions (W x H x D) 500 x 300 x 350 mm for C64D..., 500 x 300 x 550 mm for C66D...			
50	12.5	1:1:2	**C64C-50-12.5-21-400/440-64-P...**[1]
50	25	1:1	**C64C-50-25-2-400/440-64-P...**[1]
50	50	1	**C64C-50-50-1-400/440-64-P...**[1]
100	25	1:1:2	**C64C-100-25-21-400/440-66-P...**[1]
100	50	1:1	**C64C-100-50-2-400/440-66-P...**[1]
Additional equipment: Set of support rails, complete for C-modules in xEnergy Main 600 mm deep			
Without busbars or for top-mounted busbars			34-80174
Modules unchoked for a section width of 800 mm and a section depth of 600/800 mm for all versions			
Dimensions (W x H x D) 700 x 300 x 350 mm			
50	12.5	1:1:2	**C84C-50-12.5-21-400/440-84**
50	25	1:1	**C84C-50-25-2-400/440-84**
50	50	1	**C84C-50-50-1-400/440-84**
100	12.5	1:1:2:4	**C84C-100-12.5-211-400/440-84**
100	25	1:1:2	**C84C-100-25-21-400/440-84**
100	50	1:1	**C84C-100-50-2-400/440-84**
Additional equipment: Set of support rails, complete for C-modules in xEnergy Main 600 mm deep			
For rear-mounted busbars			34-80173
Without busbars or for top-mounted busbars			34-80174
Modules choked for a section width of 800 mm and a section depth of 600/800 mm without busbars			
Dimensions (W x H x D) 700 x 300 x 350 mm			
50	12.5	1:1:2	**C84C-50-12.5-21-400/440-84-P...**[1]
50	25	1:1	**C84C-50-25-2-400/440-84-P...**[1]
50	50	1	**C84C-50-50-1-400/440-84-P...**[1]
100	25	1:1:2	**C84C-100-25-21-400/440-84-P...**[1]
100	50	1:1	**C84C-100-50-2-400/440-84-P...**[1]
Additional equipment: Set of support rails, complete for C-modules in xEnergy Main 600 mm deep			
For rear-mounted busbars			34-80173
Without busbars or for top-mounted busbars			34-80174

Notes: Status: 18 Nov. 2004
Other versions on request
[1] Throttling of 5.67% = P5; 7 % = P7; 8 % = P8

Ordering aid for power factor correction components from FRAKO

Regulators, control units, fans	Type of Article No.
Regulator package, 6 speeds. With regulator terminal strip on DIN-rail	**STR-RM 9606-1500** 34-72016
Regulator package, 12 speeds. With regulator terminal strip on DIN-rail	**STR-RM 11005-1500** 34-72024
Connection from below	**CU-AW 1** 34-80006
Fan package complete, IP31, top-mounted fan with thermostat	**LP-LSFC** 34-80096
Fan package complete, IP54, top-mounted fan with thermostat	**LP-LSFC IP54-3426/1** 34-80169
To accommodate regulator terminal strip, thermostat, control transformer, core balance transformer etc. For a section width of 600 mm	**SB-C6** 34-80069
To accommodate regulator terminal strip, thermostat, control transformer, core balance transformer etc. For a section width of 800 mm	**SB-C8** 34-80053

xEnergy Main Switchboards

Correction components from Frako

wa_vt77313



vt21716



wa_vt71913



VT25009



Section width mm	Separation panel main busbar area/switchgear area	Separation panel main busbar area/switchgear area	Support profile as high as the section	Set of support rails for power correction modules to be orderd directly from FRAKO
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
Depth of 600 mm, rear-mounted busbar				
600	-	**XPFCB04/06** 110265	**XSMPB20** 288997	**34-80173**
800	**XPBM2008** 288998	**XPFCB08/10** 110266	**XSMPB20** 288997	**34-80173**
Depth of 800 mm, rear-mounted busbar				
600	-	**XPFCB04/06** 110265	**XSMPB20** 288997	**34-80174**
800	**XPBM2008** 288998	**XPFCB08/10** 110266	**XSMPB20** 288997	**34-80174**
Depth of 600 mm, top-mounted busbar (or no busbar at all)				
600	-	**XPFCB04/06** 110265	-	**34-80174**
800	**XPBM2008** 288998	**XPFCB08/10** 110266	-	**34-80174**

Correction components from KBR

Supplier of correction modules, regulators and fans is the company KBR. The set-up of the xEnergy Main sections will be based on the offer and the set-up instructions of the company KBR..

Address:
KBR GmbH; Am Kiefernschlag 7, 91126 Schwabach, Germany
Phone +49 9122 6373-0, Fax +49 9122 6373-83, mail: info@kbr.de

Power factor in kvar

Degree of protection IP31 with closed cover plate and top-mounted fan		Degree of protection IP54/55[2] with closed cover plate and top-mounted fan	
choked 5.5 %, 7 %, 8 % kvar	choked 12.5 %, 14 % kvar	choked 5.5 %, 7 %, 8 % kvar	choked 12.5 %, 14 % kvar
200	200	200	200
400	400	400	400
400	400	400	400
150	150	150	150
300	300	300	300

Feld

Version	Dimensions Height x Width x Depth mm
without main busbar	2000 x 600 x 600 / 800 2000 x 800 x 600 / 800
with rear-mounted main busbar	2000 x 800[1] x 600 / 800
with top-mounted main busbar	2000 x 600 x 600 2000 x 800 x 600

Notes:

[1] If a busbar separation on the right side is necessary for transport purposes, **a 75 mm** wide add-on frame XSAF2001... **must be used** in order to ensure access.
[2] Top-mounted fan IP54, section IP55

Planning notes for the installation of power factor correction components:

• If you install a disconnector or a back-up fuse, there will be one space less available for other components.

Version KBR	Series resonance frequency	Choking factor for	Networks using an energy supplier's sound frequency[3]
-14	134 Hz	p = 14 %	≥ 175 Hz
-12	142 Hz	p = 12.5 %	≥ 185 Hz
-8	177 Hz	p = 8 %	≥ 217 Hz
-7	189 Hz	p = 7 %	≥ 228 Hz
-5	214 Hz	p = 5.5 %	> 270 Hz

Notes:

[3] Any different regulations applying to energy suppliers must be taken into account.

Planning notes for the set-up of sections:

– Vertical profiles of type XSFH20 and frames of type XSFB08... can be selected from sections for general mounting units; additional equipment according to your needs.
– For sections with top-mounted busbars you will need a set of XSFS06 cross-members.
– For sections with the busbar area at the rear you will need a separation panel for busbar area/switchgear area XPBM20... . You will not need it though if the correction sections are separate.
– Bottom panel type XSPBM... closed
– Separation panel section / section type XPSS..., required on both sides towards the adjacent sections if they are correction sections (does not apply if a side panel or separation panel section / section is already installed in the adjacent section).
– Side panel type XAW.. where necessary.

• For an IP31 degree of protection you will need:
– Door ventilated XSDML(R)V20...
– Rear panel ventilated XSWV20...
– Cover plate closed XSPTC...

• For an IP55 degree of protection you will need:
– Door closed XSDMC20...
– Rear panel closed XSWC20...
– Cover plate closed XSPTC...

Ordering aid for power factor correction components from KBR

Supplier of correction modules, regulators and fans is the company KBR. The set-up of the xEnergy Main sections will be based on the offer and the set-up instructions of the company KBR..

Address:
KBR GmbH; Am Kiefernschlag 7, 91126 Schwabach, Germany
Phone +49 9122 6373-0, Fax +49 9122 6373-83, mail: info@kbr.de

Total power kvar	Power range kvar	Switching sequence	Required number of modules			Type of Complete system in the supplied section	Weight[2] approx. (kg)
			Type of multimod-F...00-6.SH			Article No.	
			...50/4	...50/2	...50/1		
Modules unchoked for section width 600 mm and section depth 600/800mm (with top-mounted busbars you can install up to a max. of 4 modules), PLUG-IN TECHNOLOGY							
Dimensions (W x H x D) 535 x 265 x 320 mm							
100	12.5	1:1:2:4	1		1	**multicab-R 100/08-1124-00-SSSH-EXE266**	48
100	25	1:1:2		1	1	**multicab-R 100/04-1120-00-SSSH-EXE266**	46
150	25	1:1:2:2		1	2	**multicab-R 150/06-1122-00-SSSH-EXE266**	64
150	50	1:1:1			3	**multicab-R 150/03-1110-00-SSSH-EXE266**	64
200	25	1:1:2:2:2		1	3	**multicab-R 200/08-1122-00-SSSH-EXE266**	82
200	50	1:1:1:1			4	**multicab-R 200/04-1111-00-SSSH-EXE266**	82
250	50	1:1:1:1:1			5	**multicab-R 250/05-1111-00-SSSH-EXE266**	100
Accessories: Set of support rails, complete for C-modules in xEnergy Main.							
For top-mounted busbars						**multimod-EB 2000-XE2000SO**	11
Without busbars or for rear-mounted busbars						**multimod-EB 2000-XE2000SH**	10

Total power kvar	Power range kvar	Switching sequence	Required number of modules		Type of Complete system in the supplied section	Weight[2] approx. (kg)
			Type of multimod-F...-pp-6.SH		Article No.	
			...25/1-p	...50/1-p		
Modules choked for section width 600 mm and section depth 600/800mm (with top-mounted busbars you can install up to a max. of 4 modules), PLUG-IN TECHNOLOGY						
Dimensions (W x H x D) 535 x 265 x 290/330 mm						
100	25	1:1:2	2	1	**multicab-R 100/04-1120-pp-SSSH-EXE266**	112
125	25	1:1:2	1	2	**multicab-R 125/05-1220-pp-SSSH-EXE266**	123
150	25	1:1:2:2	2	2	**multicab-R 150/06-1122-pp-SSSH-EXE266**	152
150	50	1:1:1		3	**multicab-R 150/03-1110-pp-SSSH-EXE266**	133
175	25	1:2:2:2	1	3	**multicab-R 175/07-1222-pp-SSSH-EXE266**	163
200	25	1:1:2:2:2	2	3	**multicab-R 200/08-1122-pp-SSSH-EXE266**	193
200	50	1:1:1:1		4	**multicab-R 200/04-1111-pp-SSSH-EXE266**	174
250	50	1:1:1:1:1		5	**multicab-R 250/05-1111-pp-SSSH-EXE266**	215
Accessories: Set of support rails, complete for C-modules in xEnergy Main.						
For top-mounted busbars					**multimod-EB 2000-XE2000SO**	11
Without busbars or for rear-mounted busbars					**multimod-EB 2000-XE2000SH**	10

Notes: [2] Weight without section, only for power factor correction units in complete systems.

Total power kvar	Power range kvar	Switching sequence	Required number of modules					Type of Complete system in the supplied section	Weight[2] approx. (kg)
			Type of multimod-F...00-8.SH					Article No.	
			...100/4	...100/2	...50/4	...50/2	...50/1		
Modules unchoked for section width 800 mm and section depth 600/800mm (with top-mounted busbars you can install up to a max. of 4 modules), PLUG-IN TECHNOLOGY									
Dimensions (W x H x D) 735 x 265 x 320 mm									
100	12.5	1:1:2:4			1		1	**multicab-R 100/08-1124-00-SSSH-EXE286**	50
100	25	1:1:2	1					**multicab-R 100/04-1120-00-SSSH-EXE286**	38
150	25	1:1:2:2		1		1		**multicab-R 150/06-1122-00-SSSH-EXE286**	56
150	50	1:1:1	1	1			1	**multicab-R 150/03-1110-00-SSSH-EXE286**	65
200	25	1:1:2:2:2		1				**multicab-R 200/08-1122-00-SSSH-EXE286**	66
200	50	1:1:1:1		2				**multicab-R 200/04-1111-00-SSSH-EXE286**	74
250	50	1:1:1:1:1		2			1	**multicab-R 250/05-1111-00-SSSH-EXE286**	94
300	50	1:1:1:1:1:1[1]		3				**multicab-R 300/06-1111-00-SSSH-EXE286**	102
400	50	1:1:1:1:1:1:1:1[1]		4				**multicab-R 400/08-1111-00-SSSH-EXE286**	130
500	50	1:1:1:1:1:1:1:1:1:1[1]		5				**multicab-R 500/10-1111-00-SSSH-EXE286**	158
Accessories: Set of support rails, complete for C-modules in xEnergy Main.									
For top-mounted busbars								**multimod-EB 2000-XE2000SO**	11
Without busbars or for rear-mounted busbars								**multimod-EB 2000-XE2000SH**	10

[1] 12 regulator speeds recommended.

Total power kvar	Power range kvar	Switching sequence	Required number of modules				Type of Complete system in the supplied section	Weight[2] approx. (kg)
			Type of multimod-F...-pp-8.SH				Article No.	
			...50/2-p	...50/1-p	...75/3-p	...75/1-p		
Modules choked for section width 800 mm and section depth 600/800mm (with top-mounted busbars you can install up to a max. of 4 modules), PLUG-IN TECHNOLOGY								
Dimensions (W x H x D) 735 x 265 x 290/330 mm								
100	25	1:1:2	1	1			**multicab-R 100/04-1120-pp-SSSH-EXE286**	104
125	25	1:2:2		1	1		**multicab-R 125/05-1220-pp-SSSH-EXE286**	118
150	25	1:1:2:2			2		**multicab-R 150/06-1122-pp-SSSH-EXE286**	135
150	50	1:1:1		3			**multicab-R 150/03-1110-pp-SSSH-EXE286**	139
175	25	1:2:2:2		2	1		**multicab-R 175/07-1222-pp-SSSH-EXE286**	161
200	25	1:1:2:2:2		1	2		**multicab-R 200/08-1122-pp-SSSH-EXE286**	179
200	50	1:1,5:1,5		1		2	**multicab-R 200/04-1111-pp-SSSH-EXE286**	167
250	50	1:1:1,5:1,5		2		2	**multicab-R 250/05-1111-pp-SSSH-EXE286**	210
300	50	1:1:1:1,5:1,5		3		2	**multicab-R 300/06-1111-pp-SSSH-EXE286**	252
350	50	1:1,5;1,5:1,5:1,5		1		4	**multicab-R 350/07-1111-pp-SSSH-EXE286**	285
Accessories: Set of support rails, complete for C-modules in xEnergy Main.								
For top-mounted busbars							**multimod-EB 2000-XE2000SO**	11
Without busbars or for rear-mounted busbars							**multimod-EB 2000-XE2000SH**	10

Notes:
[1] Specify choking factor for p: 05 = 5.5%; 07 = 7%; 08 = 8%
[2] Weight without section, only for power factor correction units in complete systems.

Total power kvar	Power range kvar	Switching sequence	Required number of modules		Type of Complete system in the supplied section	Weight[2] approx. (kg)
			Type of multimod-F...-pp-6.GH		Article No.	
			...25/1	...50/1		
Modules choked for section width 600 mm and section depth 600/800 mm (with top-mounted busbars you can install up to a max. of 3 modules, DRAWER TECHNOLOGY						
Dimensions (W x H x D) 495 x 325 x 350 mm						
100	25	1:1:2	2	1	**multicab-R 100/04-1120-pp-SSGH-EXE266**	119
125	25	1:2:2	1	2	**multicab-R 125/05-1220-pp-SSGH-EXE266**	131
150	25	1:1:1	2	2	**multicab-R 150/06-1122-pp-SSGH-EXE266**	163
150	50	1:1:1		3	**multicab-R 150/03-1120-pp-SSGH-EXE266**	143
175	25	1:2:2:2	1	3	**multicab-R 175/07-1222-pp-SSGH-EXE266**	175
200	50	1:1:1:1		4	**multicab-R 200/04-1111-pp-SSGH-EXE266**	187
Accessories: Set of support rails, complete for C-modules in xEnergy Main.						
Fitting kit (with a rear-mounted busbar you need to install a post at the front)					**multimod-FSP 20X6 EX**	11

Total power kvar	Power range kvar	Switching sequence	Required number of modules		Type of Complete system in the supplied section	Weight[2] approx. (kg)
			Type of multimod-F...-p-6.GB		Article No. [1]	
			...25/1	...50/1		
Modules choked for section width 600 mm and section depth 600/800 mm (with top-mounted busbars you can install up to a max. of 3 modules, DRAWER TECHNOLOGY						
Dimensions (W x H x D) 495 x 325 x 350 mm						
100	25	1:1:2	2	1	**multicab-R 100/04-1120-pp-SSGB-EXE266**	160
125	25	1:2:2	1	2	**multicab-R 125/05-1220-pp-SSGB-EXE266**	183
150	25	1:1:2:2	2	2	**multicab-R 150/06-1122-pp-SSGB-EXE266**	225
150	50	1:1:1		3	**multicab-R 150/03-1110-pp-SSGB-EXE266**	206
175	25	1:2:2:2	1	3	**multicab-R 175/07-1222-pp-SSGB-EXE266**	248
200	50	1:1:1:1		4	**multicab-R 200/04-1111-pp-SSGB-EXE266**	274
Accessories: Set of support rails, complete for C-modules in xEnergy Main.						
Fitting kit (with a rear-mounted busbar you need to install a post at the front)					**multimod-FSP 20X6 EX**	11

Notes:
[1] Specify choking factor for pp: 12=12,5%; 14=14%
[2] Weight without section, only for power factor correction units in complete systems.

Total power kvar	Power range kvar	Switching sequence	Required number of modules				Type of Complete system in the supplied section	Weight[2] approx. (kg)
			Type of multimod-F...-pp-8.GH				Article No. [1]	
			...50/1	...75/3	...100/2	...100/4		
Modules choked for section widht 800 mm and section depth 600/800mm (with top-mounted busbars you can install up to a max. of 3 modules), DRAWER TECHNOLOGY								
Dimensions (W x H x D) 695 x 325 x 550 mm								
100	25	1:1:2				1	**multicab-R 100/04-1120-pp-SSGH-EXE286**	97
125	25	1:2:2	1	1			**multicab-R 125/05-1220-pp-SSGH-EXE286**	120
150	25	1:1:2:2		2			**multicab-R 150/06-1122-pp-SSGH-EXE286**	141
150	50	1:1:1	1		1		**multicab-R 150/03-1110-pp-SSGH-EXE286**	131
175	25	1:2:2:2		1	1		**multicab-R 175/07-1222-pp-SSGH-EXE286**	152
200	25	1:1:2:2:2			1	1	**multicab-R 200/08-1122-pp-SSGH-EXE286**	173
200	50	1:1:1:1			2		**multicab-R 200/04-1111-pp-SSGH-EXE286**	183
250	50	1:1:1:2	1		2		**multicab-R 250/05-1111-pp-SSGH-EXE286**	227
300	50	1:1:2:2			3		**multicab-R 300/06-1111-pp-SSGH-EXE286**	303
350	50	1:1:1:2:2	1		3		**multicab-R 350/07-1111-pp-SSGH-EXE286**	283
400	50	1:1:2:2:2			4		**multicab-R 400/08-1111-pp-SSGH-EXE286**	315
Accessories: Set of support rails, complete for C-modules in xEnergy Main.								
Fitting kit							**multimod-FSP 20X6 EX**	11

Notes:
[1] Specify choking factor for p: 05 = 5.5%; 07 = 7%; 08 = 8%
[2] Weight without section, only for power factor correction units in complete systems.

Total power kvar	Power range kvar	Switching sequence	Required number of modules Type of multimod-F...-pp-8.GB ...50/1	...75/3	...100/2	...100/4	Type of Complete system in the supplied section Article No. [1]	Weight[2] approx. (kg)
Modules choked for section widht 800 mm and section depth 600/800mm (with top-mounted busbars you can install up to a max. of 3 modules), DRAWER TECHNOLOGY								
Dimensions (W x H x D) 695 x 325 x 550 mm								
100	25	1:1:2				1	**multicab-R 100/04-1120-pp-SSGB-EXE286**	136
125	25	1:2:2	1	1			**multicab-R 125/05-1220-pp-SSGB-EXE286**	171
150	25	1:1:2:2		2			**multicab-R 150/06-1122-pp-SSGB-EXE286**	201
150	50	1:1:1	1		1		**multicab-R 150/03-1110-pp-SSGB-EXE286**	194
175	25	1:2:2:2		1	1		**multicab-R 175/07-1222-pp-SSGB-EXE286**	224
200	25	1:1:2:2:2			1	1	**multicab-R 200/08-1122-pp-SSGB-EXE286**	254
200	50	1:1:1:1			2		**multicab-R 200/04-1111-pp-SSGB-EXE286**	247
250	50	1:1:1:2	1		2		**multicab-R 250/05-1111-pp-SSGB-EXE286**	312
300	50	1:1:2:2			3		**multicab-R 300/06-1111-pp-SSGB-EXE286**	365
350	50	1:1:1:2:2	1		3		**multicab-R 350/07-1111-pp-SSGB-EXE286**	430
400	50	1:1:2:2:2			4		**multicab-R 400/08-1111-pp-SSGB-EXE286**	483
Accessories: Set of support rails, complete for C-modules in xEnergy Main.								
Fitting kit							**multimod-FSP 20X6 EX**	11

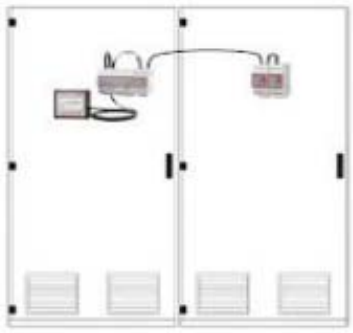
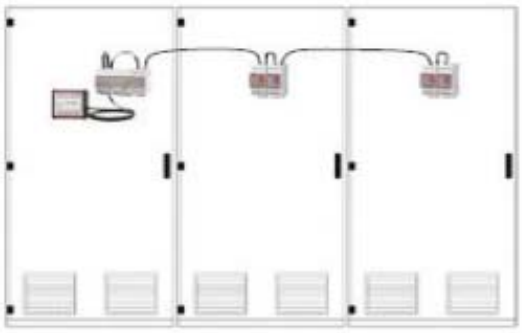
Notes:

[1] Specify choking factor for pp: 12 = 12.5%; 14 = 14%
[2] Weight without section, only for power factor correction units in complete systems.

Correction components from Frako

		Type of Article No.
Regulator 4-speed incl. display		
with bus connection (KBR-eBus or Modbus)		**multicomp D6**
Extension module 4-speed		
		multisio D2-4RO-2

Note: To set up the sections you usually use completely equipped control groups. These control groups come completely equipped. Individual components are usually only necessary to enhance existing systems.
"Module bus cables" for connecting the regulator components are included in the scope of delivery.

Top-mounted fan, exhaust type, IP30		
1000 m^3/h		**multimod-FAN-FL4-S**
Top-mounted fan, exhaust type, IP54		
1000 m^3/h		**multimod-FAN-FL4-S-IP54**
Incoming / Outgoing filter		
		2 x **multimod-FIL LG2** with multicab-R..SSG.. 1 x **multimod-FIL LG3** with multicab-R..SSS..
Filter pad		
		multimod-FMA3
Connection from below		
		multimod-ABG 30x10
Control assembly group		
Regulator section	For a section width of 600 mm	**multimod-SM06-R04** **multimod-SM06-R08** **multimod-SM06-R12**
	For a section width of 800 mm	**multimod-SM08-R04** **multimod-SM08-R08** **multimod-SM08-R12**
Extension section	For a section width of 600 mm	**multimod-SM06-E04-T** **multimod-SM06-E08-T** **multimod-SM06-E12-T**
	For a section width of 800 mm	**multimod-SM08-E04-T** **multimod-SM08-E08-T** **multimod-SM08-E12-T**

Components required for ventilation

Supplier of correction modules, regulators and fans is the company KBR. The set-up of the xEnergy Main sections will be based on the offer and the set-up instructions of the company KBR..

Address:
KBR GmbH; Am Kiefernschlag 7, 91126 Schwabach, Germany
Phone +49 9122 6373-0, Fax +49 9122 6373-83, mail: info@kbr.de

Version	Total power up to kvar	Degree of protection	Type + number per section		
			FL1	**FL4**	**LG3**
unchoked					
	200	IP30	1	-	1
	200	IP54	-	1	1
	500	IP30	2	-	1
	500	IP54	-	1	1
choked					
	150	IP30	2	-	1
	150	IP54	-	1	1
	250	IP30	4	-	1
	250	IP54	-	1	1
	350	IP30	6	-	1
	350	IP54	-	1	1

xEnergy Main Switchboards

Correction components from KBR

wa_vt77313



vt21716



wa_vt71913



VT07906



wa_vt68613



Section width mm	Separation panel main busbar area/switch-gear area	Separation panel main busbar area/switch-gear area	Separation panel	Crossbar	Set of support rails for correction modules to be ordered directly from KBR
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
Main busbar rear-mounted (or no main busbar), section depth 600 mm					
600	-	**XPFCB04/06** 110265	**XPSS2006** 284178	-	**multimod-EB 2000-XE2000SH**
800	**XPBM2008** 288998	**XPFCB08/10** 110266	**XPSS2006** 284178	-	**multimod-EB 2000-XE2000SH**
Main busbar rear-mounted (or no main busbar), section depth 800 mm					
600	-	**XPFCB04/06** 110265	**XPSS2008** 284179	-	**multimod-EB 2000-XE2000SH**
800	**XPBM2008** 288998	**XPFCB08/10** 110266	**XPSS2008** 284179	-	**multimod-EB 2000-XE2000SH**

Section width mm	Partition busbar area/switchgear area	Separation panel	Crossbar	Set of support rails for correction modules to be ordered directly from KBR
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
Main busbars top-mounted				
600	**XPBMT0606** 284112	**XPSS2006** 284178	**XSFS06** 284775	**multimod-EB 2000-XE2000SO**

Individual Components

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• Accessories for XP sections ..... Page xx
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xEnergy Main Switchboards

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Fastening material is included in all Individual Components.

Frames - compatible with xEnergy Light

- Come with blue design strip

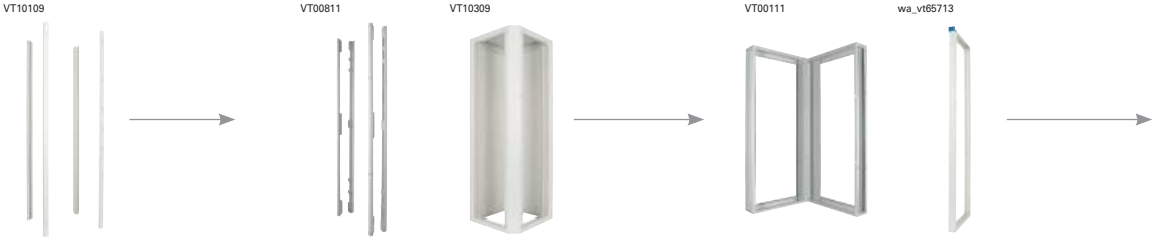
VT13310



Section depth mm	Frame depth 200 mm for 5000 A application consists of top and bottom element	Frame depth 400 mm consists of top and bottom element	Frame depth 600 mm consists of top and bottom element	Frame depth 800 mm consists of top and bottom element
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
425	**XSFB0402** 150464 151686*	**XSFB0404** 284231 122274*	**XSFB0406** 284232 122275*	**XSFB0408** 284233 122276*
600	**XSFB0602** 150465 151687*	**XSFB0604** 284234 122277*	**XSFB0606** 284235 122278*	**XSFB0608** 284236 122279*
800	**XSFB0802** 150466 151688*	**XSFB0804** 284237 122280*	**XSFB0806** 284238 122281*	**XSFB0808** 284239 122282*
850	**XSFB08502** 150467 151689*	**XSFB08504** 143343 143479*	**XSFB08506** 143345 143481*	**XSFB08508** 143346 143482*
1000	**XSFB1002** 150468 151690*	**XSFB1004** 284240 122283*	**XSFB1006** 284241 122284*	**XSFB1008** 284242 122285*
1100	**XSFB1102** 150469 151469*	**XSFB1104** 143348 143484*	**XSFB1106** 143350 143486*	**XSFB1108** 132991 133039*
1200	**XSFB1202** 150480 151692*	**XSFB1204** 132935 186367*	**XSFB1206** 284243 122286*	**XSFB1208** 284244 122287*
1350	**XSFB13502** 150481 151693*	**XSFB13504** 143352 143488*	**XSFB13506** 143354 143490*	**XSFB13508** 132992 133040*

Note * Finish in special RAL colour

Frames - compatible with xEnergy Light



Section depth mm	Vertical profiles consists of 4 profiles Article No. per unit unit = 1 set	Vertical profiles for box solution, only 1 post Article No. per unit unit = 1 pc.	Vertical profiles for 5000 A application consists of 4 profiles Article No. per unit unit = 1 set	Corner section H = 2000 mm W = 650 mm D = 600 mm including rear wall and top panel Article No. per unit unit = 1 set	Corner section H = 2000 mm W = 850 mm D = 800 mm including rear wall and top panel Article No. per unit unit = 1 set	Corner section extension set 1050x1050 for 5000 A application Article No. per unit unit = 1 set	Add-on frame (Section width 75 mm) Article No. per unit unit = 1 pc.	Add-on frame width 150 mm for 5000 A application Article No. per unit unit = 1 pc.
	XSFH20 284245 122288*	**XSFH20-1** 109254 122585*	**XSFH20-I-D** 150482 151694*	-	-	-	-	-
600	-		-	**XSC200606** 286388 141839*	-	-	**XSAF200106** 289908 122389*	-
800	-		-	-	**XSC200808** 288867 141840*	-	**XSAF200108** 289909 122390*	-
1000	-	-	-	-	-	**XSC200808-E10** 150522	-	**XSAF2000-150-1000** 150493 151703*

Note * Finish in special RAL colour

Plinth - compatible with xEnergy Light

- Consist of: 4x corner element, 2x side plate, 2x front cover/rear cover

VT08106



wa_vt66713



Section depth mm	Plinth Height 100 mm Depth 400 mm	Plinth Height 100 mm Depth 600 mm	Plinth Height 100 mm Depth 800 mm	Plinth Height 100 mm Depth 1000 mm for 5000 A application	Plinth Height 200 mm Depth 400 mm	Plinth Height 200 mm Depth 600 mm	Plinth Height 200 mm Depth 800 mm	Plinth Height 200 mm Depth 1000 mm for 5000 A application	Plinth for corner sections Height 100 mm	Plinth for corner sections Height 200 mm
	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
425	**XAP010404** 283822 122090*	**XAP010406** 283823 122091*	**XAP010408** 283824 122092*	**XAP010410** 150496 151707*	**XAP020404** 283836 122104*	**XAP020406** 283837 122105*	**XAP020408** 283838 122106*	**XAP020410** 150504 151715*	-	-
600	**XAP010604** 283825 122093*	**XAP010606** 283826 122094*	**XAP010608** 283827 122095*	**XAP010610** 150497 151708*	**XAP020604** 283839 122107*	**XAP020606** 283840 122108*	**XAP020608** 283841 122109*	**XAP020610** 150505 151716*	**XAP010606C** 288868 122381*	**XAP020606C** 288890 122383*
800	**XAP010804** 283828 122096*	**XAP010806** 283829 122097*	**XAP010808** 283830 122098*	**XAP010810** 150498 151709*	**XAP020804** 283842 122110*	**XAP020806** 283843 122111*	**XAP020808** 283844 122112*	**XAP020810** 150506 151717*	**XAP010808C** 288869 122382*	**XAP020808C** 288892 122384*
850	**XAP0108504** 143303 143439*	**XAP0108506** 143305 143441*	**XAP0108508** 143306 143442*	**XAP0108510** 150499 151710*	**XAP0208504** 143316 143452*	**XAP0208506** 143318 143454*	**XAP0208508** 143319 143455*	**XAP0208510** 150507 151718*	-	-
1000	**XAP011004** 283831 122099*	**XAP011006** 283832 122100*	**XAP011008** 283833 122101*	**XAP011010** 150500 151711*	**XAP021004** 283845 122113*	**XAP021006** 283846 122114*	**XAP021008** 283847 122115*	**XAP021010** 150508 151719*	**XAP011010C** 150512 151723*	**XAP021010C** 150513 151724*
1100	**XAP011104** 143308 143444*	**XAP011106** 143310 143446*	**XAP011108** 133012 133060*	**XAP011110** 150501 151712*	**XAP021104** 143321 143457*	**XAP021106** 143323 143459*	**XAP021108** 133014 133062*	**XAP021110** 150509 151720*	-	-
1200	-	**XAP011206** 283834 122102*	**XAP011208** 283835 122103*	**XAP011210** 150502 151713*	-	**XAP021206** 283848 122116*	**XAP021208** 283849 122117*	**XAP021210** 150510 151721*	-	-
1350	**XAP0113504** 143312 143448*	**XAP0113506** 143314 143450*	**XAP0113508** 133013 133061*	**XAP0113510** 150503 151714*	**XAP0213504** 143325 143461*	**XAP0213506** 143327 143463*	**XAP0213508** 133015 133063*	**XAP0213510** 150511 151722*	-	-

Note

* Finish in special RAL colour

. . . also for use in the Main Bus Bar Top (BXT) system

Plinth (continued) - compatible with xEnergy Light

- Consist of: 4x corner element, 2x side plate, 2x front cover/rear cover

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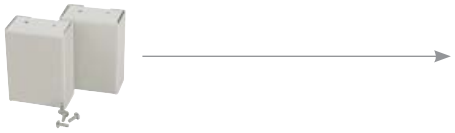
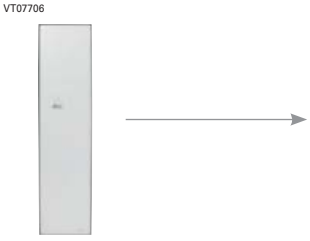


Frame width mm	Plinth for add-on frames Height 100mm	Plinth for add-on frames Height 200mm
	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pair
75	**XAP0101AF** 289950 122391*	**XAP0201AF** 289951 122392*
150	**XAP01AF150** 150491 151703*	**XAP02AF150** 150492 151704*

Note * Finish in special RAL colour

Side panels - compatible with xEnergy Light



Section depth mm	Side panel for add-on frames up to IP55	Side panel up to IP55	Separation panel section/section
	Article No. per unit unit = 2 pcs.	Article No. per unit unit = 2 pcs.	Article No. per unit unit = 1 pc.
200	-	**XAW2002** 150494 151706*	**XPSS2002** 150495
400	-	**XAW2004** 283856 122118*	**XPSS2004** 284781
600	**XAW2006AF** 292908 122407*	**XAW2006** 283857 122119*	**XPSS2006** 284178
800	**XAW2008AF** 292909 122408*	**XAW2008** 283858 122120*	**XPSS2008** 284179



Section depth mm	Rear panel closed up to IP55	Rear panel ventilated up to IP31	Rear panel ventilated up to IP42
	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
425	**XSWC2004** 284355 122346*	**XSWV2004** 284360 122351*	**XTSZRV4-W425** 172524
600	**XSWC2006** 284356 122347*	**XSWV2006** 284361 122352*	**XTSZRV4-W600** 172525
800	**XSWC2008** 284357 122348*	**XSWV2008** 284362 122353*	**XTSZRV4-W800** 172526
850	**XSWC20085** 143416 143552*	**XSWV20085** 143417 143553*	-
1000	**XSWC2010** 284358 122349*	**XSWV2010** 284363 122354*	**XTSZRV4-W1000** 172520
1100	**XSWC2011** 133000 133048*	**XSWV2011** 133002 133050*	**XTSZRV4-W1100** 172521
1200	**XSWC2012** 284359 122350*	**XSWV2012** 284364 122355*	**XTSZRV4-W1200** 172522
1350	**XSWC20135** 133001 133049*	**XSWV20135** 133003 133051*	**XTSZRV4-W1350** 172523

Note

* Finish in special RAL colour
. . . also for use in the Main Bus Bar Top (BXT) system

Top panels/Bottom panels - compatible with xEnergy Light



Section depth mm	Top panel Bottom panel closed 200 mm depth up to IP55 for 5000 A application Article No. per unit unit = 1 pc.	Top panel Bottom panel closed 400 mm depth up to IP55 Article No. per unit unit = 1 pc.	Top panel Bottom panel closed 600 mm depth up to IP55 Article No. per unit unit = 1 pc.	Top panel Bottom panel closed 800 mm depth up to IP55 Article No. per unit unit = 1 pc.	Top panel ventilated 400 mm depth up to IP31 Article No. per unit unit = 1 pc.	Top panel ventilated 600 mm depth up to IP31 Article No. per unit unit = 1 pc.	Top panel ventilated 800 mm depth up to IP31 Article No. per unit unit = 1 pc.	Top panel Bottom panel with flanges 400 mm depth up to IP55 Article No. per unit unit = 1 pc.	Top panel Bottom panel with flanges 600 mm depth up to IP55 Article No. per unit unit = 1 pc.
425	**XSPTC0402** 150483 151695*	**XSPTC0404** 284301 122316*	**XSPTC0406** 284302 122317*	**XSPTC0408** 284303 122318*	**XAD0404** 283484 122076*	**XAD0406** 283485 122077*	**XAD0408** 283486 122078*	**XSPTF0404** 284316 122331*	**XSPTF0406** 284317 122332*
600	**XSPTC0602** 150484 151696*	**XSPTC0604** 284304 122319*	**XSPTC0606** 284305 122320*	**XSPTC0608** 284306 122321*	**XAD0604** 283487 122079*	**XAD0606** 283488 122080*	**XAD0608** 283489 122081*	**XSPTF0604** 284319 122334*	**XSPTF0606** 284320 122335*
800	**XSPTC0802** 150485 151697*	**XSPTC0804** 284307 122322*	**XSPTC0806** 284308 122323*	**XSPTC0808** 284309 122324*	**XAD0804** 283810 122082*	**XAD0806** 283811 122083*	**XAD0808** 283812 122084*	**XSPTF0804** 284322 122337*	**XSPTF0806** 284323 122338*
850	**XSPTC08502** 150486 151698*	**XSPTC08504** 143391 143527*	**XSPTC08506** 143393 143529*	**XSPTC08508** 143394 143530*	**XAD08504** 143289 143425*	**XAD08506** 143291 143427*	**XAD08508** 143292 143428*	**XSPTF08504** 143404 143540*	**XSPTF08506** 143406 143542*
1000	**XSPTC1002** 150487 151699*	**XSPTC1004** 284310 122325*	**XSPTC1006** 284311 122326*	**XSPTC1008** 284312 122327*	**XAD1004** 283813 122085*	**XAD1006** 283814 122086*	**XAD1008** 283815 122087*	**XSPTF1004** 284325 122340*	**XSPTF1006** 284326 122341*
1100	**XSPTC1102** 150488 151700*	**XSPTC1104** 143396 143532*	**XSPTC1106** 143398 143534*	**XSPTC1108** 133004 133052*	**XAD1104** 143294 143430*	**XAD1106** 143296 143432*	**XAD1108** 133010 133058*	**XSPTF1104** 143409 143545*	**XSPTF1106** 143411 143547*
1200	**XSPTC1202** 150489 151701*	**XSPTC1204** 284313 122328*	**XSPTC1206** 284314 122329*	**XSPTC1208** 284315 122330*	**-**	**XAD1206** 283816 122088*	**XAD1208** 283817 122089*	**XSPTF1204** 284328 122343*	**XSPTF1206** 284329 122344*
1350	**XSPTC13502** 150490 151702*	**XSPTC13504** 143400 143536*	**XSPTC13506** 143402 143538*	**XSPTC13508** 133005 133053*	**XAD13504** 133299 143435*	**XAD13506** 143301 143437*	**XAD13508** 133011 133059*	**XSPTF13504** 143413 143549*	**XSPTF13506** 143415 143551*

Note

* Finish in special RAL colour

. . . also for use in the Main Bus Bar Top (BXT) system

Top panels/Bottom panels (continued) - compatible with xEnergy Light

wa_vt63213



wa_vt25313



Section depth mm	Top panel Bottom panel with flanges 800 mm depth up to IP55 Article No. per unit unit = 1 pc.	Top panel Bottom panel with flanges 600 mm depth for XF sections up to IP55 Article No. per unit unit = 1 pc.	Top panel Bottom panel with flanges 800 mm depth for XF sections up to IP55 Article No. per unit unit = 1 pc.	Top panel Bottom panel in several parts 400 mm depth up to IP30 [1] Article No. per unit unit = 1 pc.	Top panel Bottom panel in several parts 400 mm depth 2 openings up to IP30 [1] Article No. per unit unit = 1 pc.	Top panel Bottom panel in several parts 600 mm depth up to IP30 [1] Article No. per unit unit = 1 pc.	Top panel Bottom panel in several parts 600 mm depth 2 openings up to IP30 [1] Article No. per unit unit = 1 pc.	Top panel Bottom panel in several parts 800 mm depth up to IP30 [1] Article No. per unit unit = 1 pc.
425	**XSPTF0408** 284318 122333*	-	-	**XSPBM0404** 284286 122301*	-	**XSPBM0406** 284287 122302*	-	**XSPBM0408** 284288 122303*
600	**XSPTF0608** 284321 122336*	**XSPTF0606-XF** 121440 122626*	**XSPTF0608-XF** 121441 122627*	**XSPBM0604** 284289 122304*	-	**XSPBM0606** 284290 122305*	-	**XSPBM0608** 284291 122306*
800	**XSPTF0808** 284324 122339*	**XSPTF0806-XF** 121442 122628*	**XSPTF0808-XF** 121443 122629*	**XSPBM0804** 284292 122307*	-	**XSPBM0806** 284293 122308*	**XSPBM0806-1** 104533 122425	**XSPBM0808** 284294 122309*
850	**XSPTF08508** 143407 143543*	-	-	**XSPBM08504** 143365 143501*	-	**XSPBM08506** 143367 143503*	-	**XSPBM08508** 143368 143504*
1000	**XSPTF1008** 284327 122342*	**XSPTF1006-XF** 121444 122630*	**XSPTF1008-XF** 121445 122631*	**XSPBM1004** 284295 122310*	-	**XSPBM1006** 104529 122421*	**XSPBM1006-1** 284296 122311	**XSPBM1008** 104530 122422*
1100	**XSPTF1108** 133006 133054*	-	-	**XSPBM1104** 143370 143506*	-	**XSPBM1106** 143372 143508*	-	**XSPBM1108** 133008 133056*
1200	**XSPTF1208** 284330 122345*	**XSPTF1206-XF** 121446 122632*	**XSPTF1208-XF** 121447 122633*	**XSPBM1204** 132962 186378*	**XSPBM1204-1** 284298 122313*	**XSPBM1206** 104531 122423*	**XSPBM1206-1** 284299 122314	**XSPBM1208** 104532 122424*
1350	**XSPTF13508** 133007 133055*	-	-	**XSPBM13504** 143374 143510*	-	**XSPBM13506** 143376 143512*	-	**XSPBM13508** 133009 133057*

Note

* Finish in special RAL colour

[1] With cellular rubber sealing. In case of large cable cross-sections it may be necessary to provide for the appropriate degree of protection through additional measures.

. . . also for use in the Main Bus Bar Top (BXT) system

Top panels/Bottom panels (continued) - compatible with xEnergy Light

wa_vt25313 wa_vt66113 wa_vt62613 wa_vt62713



Section depth mm	Top panel Bottom panel in several parts 800 mm depth 2 openings up to IP30 [1]	Top panel arc fault protection 400 mm depth IP55	Top panel arc fault protection 600 mm depth IP55	Top panel arc fault protection and release for cable entry via cable connection area 600 mm depth IP55	Top panel arc fault protection 800 mm depth IP55	Top panel arc fault protection and release for cable entry via cable connection area 800 mm depth IP55	Bottom panel galvanized 400 mm depth up to IP55	Bottom panel galvanized 600 mm depth up to IP55	Bottom panel galvanized 800 mm depth up to IP55	Bottom panel galvanized 600 mm depth for XF sections up to IP55
	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
425	-	**XSPTA0404** 107256 122515*	**XSPTA0406** 107257 122516*	-	**XSPTA0408** 107258 122517*	-	**XSPBU0404** 119910	**XSPBU0406** 119914	**XSPBU0408** 119919	-
600	-	**XSPTA0604** 107259 122518*	**XSPTA0606** 107280 122519*	-	**XSPTA0608** 107281 122520*	-	**XSPBU0604** 119911	**XSPBU0606** 119915	**XSPBU0608** 119920	**XSPBU0606-42** 119924
800	**XSPBM0808-1** 104534 122426*	**XSPTA0804** 107282 122521*	**XSPTA0806** 107283 122522*	**XSPTA0806-2** 192250	**XSPTA0808** 107284 122523*	**XSPTA0808-2** 192253	**XSPBU0804** 119912	**XSPBU0806** 119916	**XSPBU0808** 119921	**XSPBU0806-62** 119925
	-	-	-	-	-	-	-	-	-	**XSPBU0806-44** 119926
850	-	**XSPTA08504** 143378 143514*	**XSPTA08506** 143380 143516*	-	**XSPTA08508** 143381 143517*	-	**XSPBU08504** 143214	**XSPBU08506** 143216	**XSPBU08508** 143217	-
1000	**XSPBM1008-1** 284297 122312*	**XSPTA1004** 107285 122524*	**XSPTA1006** 107286 122525*	**XSPTA1006-2** 192251	**XSPTA1008** 107287 122526*	**XSPTA1008-2** 192254	**XSPBU1004** 119913	**XSPBU1006** 119917	**XSPBU1008** 119922	**XSPBU1006-64** 119927
1100	-	**XSPTA1104** 143383 143519*	**XSPTA1106** 143385 143521*	-	**XSPTA1108** 133016 133064*	-	**XSPBU1104** 143219	**XSPBU1106** 143221	**XSPBU1108** 143222	-
1200	**XSPBM1208-1** 284300 122315*	**XSPTA1204** 107288 122527*	**XSPTA1206** 107289 122528*	**XSPTA1206-2** 192252	**XSPTA1208** 107290 122529*	**XSPTA1208-2** 192255	-	**XSPBU1206** 119918	**XSPBU1208** 119923	-
1350	-	**XSPTA13504** 143387 143523*	**XSPTA13506** 143389 143525*	-	**XSPTA13508** 133017 133065*	-	**XSPBU13504** 143224	**XSPBU13506** 143226	**XSPBU13508** 143227	-

Note

* Finish in special RAL colour

[1] With cellular rubber sealing. In case of large cable cross-sections it may be necessary to provide for the appropriate degree of protection through additional measures.

. . . also for use in the Main Bus Bar Top (BXT) system

Top panels/Bottom panels (continued) - compatible with xEnergy Light

• Für Konfiguration (Boden-Paneel) siehe Technikteil Seiten xx

wa_vt62713



wa_vt14313



wa_vt14213

Section depth mm	Bottom panel galvanized 600 mm depth for PIFT sections up to IP55 Article No. per unit unit = 1 set	Bottom panel galvanized 600 mm depth for PIFT sections with door to switchgear area up to IP55 Article No. per unit unit = 1 set	Bottom panel galvanized 800 mm depth for XF sections up to IP55 Article No. per unit unit = 1 set	Bottom panel galvanized 800 mm depth for PIFT sections up to IP55 Article No. per unit unit = 1 set	Bottom panel galvanized for PIFT sections with door to switchgear area up to IP55 Article No. per unit unit = 1 set	Boden-Paneel with foam 40 mm Section width 400-1200 mm up to IP20 Article No. per unit unit = 1 pc.	Boden-Paneel with foam 40 mm Section depth 400-800 mm up to IP20 Article No. per unit unit = 1 pc.	Boden-Paneel Width 35 mm Section width 400-1200 mm without foam up to IP20 Article No. per unit unit = 1 pc.
425	-	-	-	-	-	**XSPBA0401** 107679 122530*	**XSPBA0104** 107684 122535*	**XSPBAC0401** 107687 122538*
600	-	-	**XSPBU0608-42** 119932	-	-	**XSPBA0601** 107680 122531*	**XSPBA0106** 107685 122536*	**XSPBAC0601** 107688 122539*
	-	-	**XSPBU0608-62** 119933	-	-	**XSPBA0601** 107680 122531*	**XSPBA0106** 107685 122536*	**XSPBAC0601** 107688 122539*
800	-	-	**XSPBU0808-44** 119934	-	-	**XSPBA0801** 107681 122532*	**XSPBA0108** 107686 122537*	**XSPBAC0801** 107689 122540*
850	-	-	-	-	-	**XSPBA08501** 143355 143491*	-	**XSPBAC08501** 143358 143494*
1000	**XSPBU1006-64-S** 119928	**XSPBU1006-73-S** 119929	**XSPBU1008-64** 119935	**XSPBU1008-64-S** 119936	**XSPBU1008-73-S** 119937	**XSPBA1001** 107682 122533*	-	**XSPBAC1001** 107690 122541*
1100	-	-	-	-	-	**XSPBA1101** 143356 143492*	-	**XSPBAC1101** 143360 143496*
1200	**XSPBU1206-66-S** 119930	**XSPBU1206-75-S** 119931	-	**XSPBU1208-66-S** 119938	**XSPBU1208-75-S** 119939	**XSPBA1201** 107683 122534*	-	**XSPBAC1201** 107691 122542*
1350	-	-	-	-	-	**XSPBA13501** 143357 143493*	-	**XSPBAC13501** 143362 143498*

Note

* Finish in special RAL colour

. . . also for use in the Main Bus Bar Top (BXT) system

Top panels/Bottom panels (continued) - compatible with xEnergy Light

• Für Konfiguration (Boden-Paneel) siehe Technikteil Seiten xx



Section depth mm	Boden-Paneel Width 110 mm Section width 400-1200 mm without foam up to IP20 Article No. per unit unit = 1 pc.	Boden-Paneel Width 35 mm Section depth 400-800 mm without foam up to IP20 Article No. per unit unit = 1 pc.	Boden-Paneel Width 110 mm Section depth 400-800 mm without foam up to IP20 Article No. per unit unit = 1 pc.	Boden-Paneel Width 700 mm for PIFT switchgear area without foam up to IP20 Article No. per unit unit = 1 pc.	Top panel Bottom panel for corner section up to IP55 Article No. per unit unit = 1 pc.
425	**XSPBAC0402** 107692 122543*	**XSPBAC0104** 107697 122548*	**XSPBAC0204** 107700 122551*	**XSPBAC0702** 107981 122554*	-
600	**XSPBAC0602** 107693 122544*	**XSPBAC0106** 107698 122549*	**XSPBAC0206** 107701 122552*	-	**XSPBC0606C** 288995 122385*
800	**XSPBAC0802** 107694 122545*	**XSPBAC0108** 107699 122550*	**XSPBAC0208** 107702 122553*	-	-
850	**XSPBAC08502** 143359 143495*	-	-	-	-
1000	**XSPBAC1002** 107695 122546*	-	-	-	-
1100	**XSPBAC1102** 143361 143497*	-	-	-	-
1200	**XSPBAC1202** 107696 122547*	-	-	-	-
1350	**XSPBAC13502** 143363 143499*	-	-	-	-

Note

* Finish in special RAL colour

. . . also for use in the Main Bus Bar Top (BXT) system

Top panels/Bottom panels (continued) - compatible with xEnergy Light

Section depth mm	Top/Bottom plate Alu material thickness 5 mm with circumferential seal IP55 Section depth 300 mm Article No. per unit unit = 1 pc.	Top/Bottom plate Alu material thickness 5 mm with circumferential seal IP55 Section depth 400 mm Article No. per unit unit = 1 pc.	Top/Bottom plate Alu material thickness 5 mm with circumferential seal IP55 Section depth 600 mm Article No. per unit unit = 1 pc.	Top/Bottom plate Alu material thickness 5 mm with circumferential seal IP55 Section depth 800 mm Article No. per unit unit = 1 pc.
300	**XSPBU0303A** 193026	**XSPBU0304A** 193036	**XSPBU0306A** 193046	**XSPBU0308A** 193053
425	**XSPBU0403A** 193027	**XSPBU0404A** 193037	**XSPBU0406A** 193047	**XSPBU0408A** 178078
600	**XSPBU0603A** 193028	**XSPBU0604A** 193038	**XSPBU0606A** 178075	**XSPBU0608A** 178079
650	**XSPBU06503A** 193029	**XSPBU06504A** 193039	**XSPBU06506A** 193048	**XSPBU06508A** 193054
800	**XSPBU0803A** 193030	**XSPBU0804A** 193040	**XSPBU0806A** 178076	**XSPBU0808A** 178080
850	**XSPBU08503A** 193031	**XSPBU08504A** 19341	**XSPBU08506A** 193049	**XSPBU08508A** 193055
1000	**XSPBU1003A** 193032	**XSPBU1004A** 193042	**XSPBU1006A** 178077	**XSPBU1008A** 178081
1100	**XSPBU1103A** 193033	**XSPBU1104A** 193043	**XSPBU1106A** 193050	**XSPBU1108A** 193056
1200	**XSPBU1203A** 193034	**XSPBU1204A** 193044	**XSPBU1206A** 193051	**XSPBU1208A** 193057
1350	**XSPBU13503A** 193035	**XSPBU13504A** 193045	**XSPBU13506A** 193052	**XSPBU13508A** 193058

Top panels/Bottom panels (continued) - compatible with xEnergy Light

Section depth mm	Cable area width mm	Top panel to outlet section splited/ventilated IP31 screw-on plate insert above the cable area from Alu 5 mm (is part of the scope of delivery) Section depth 600 mm Article No. per unit unit = 1 pc.	Top panel to outlet section splited/ventilated IP31 screw-on plate insert above the cable area from Alu 5 mm (is part of the scope of delivery) Section depth 800 mm Article No. per unit unit = 1 pc.	Top panel to outlet section splited/closed IP55 screw-on plate insert above the cable area from Alu 5 mm (is part of the scope of delivery) Section depth 600 mm Article No. per unit unit = 1 pc.	Top panel to outlet section splited/closed IP55 screw-on plate insert above the cable area from Alu 5 mm (is part of the scope of delivery) Section depth 800 mm Article No. per unit unit = 1 pc.
800	200	**XAD-SPL-0806/200** 192869	**XAD-SPL-0808/200** 192870	**XSPTC-SPL0806/200** 192897	**XSPTC-SPL0808/200** 192898
1000	200	**XAD-SPL-1006/200** 192873	**XAD-SPL-1008/200** 192874	**XSPTC-SPL1006/200** 192901	**XSPTC-SPL1008/200** 192902
	400	**XAD-SPL-1006/400** 192871	**XAD-SPL-1008/400** 192872	**XSPTC-SPL1006/400** 192899	**XSPTC-SPL1008/400** 192900
1200	400	**XAD-SPL-1206/400** 192877	**XAD-SPL-1208/400** 192878	**XSPTC-SPL1206/400** 192905	**XSPTC-SPL1208/400** 192906
	600	**XAD-SPL-1206/600** 192875	**XAD-SPL-1208/600** 192876	**XSPTC-SPL1206/600** 192903	**XSPTC-SPL1208/600** 192904

Top panels/Bottom panels (continued) - compatible with xEnergy Light

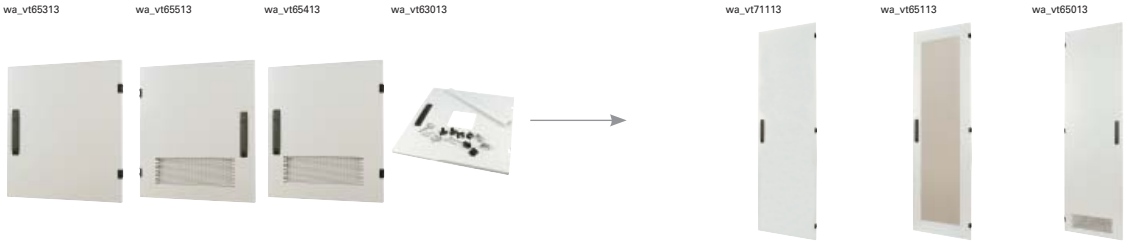
Section depth mm	Top/Bottom plate for cable sections with Alu insert plate 5 mm (part of the scope of delivery) Section depth 600 mm Article No. per unit unit = 1 pc.	Top/Bottom plate for cable sections with Alu insert plate 5 mm (part of the scope of delivery) Section depth 800 mm Article No. per unit unit = 1 pc.
300	**XSPTC-SPL0306** 192891	**XSPTC-SPL0308** 192892
425	**XSPTC-SPL0406** 192893	**XSPTC-SPL0408** 192894
600	**XSPTC-SPL0606** 192895	**XSPTC-SPL0608** 192896

Section depth mm	Bottom plate to outlet areas galvanized, IP2X, with pre cut-outs for Alu insert plate (not included in scope of delivery) Section depth 600 mm Article No. per unit unit = 1 pc.	Bottom plate to outlet areas galvanized, IP2X, with pre cut-outs for Alu insert plate (not included in scope of delivery) Section depth 800 mm Article No. per unit unit = 1 pc.
800	**XSPBUP0806** 192879	**XSPBUP0808** 192880
1000	**XSPBUP1006** 192881	**XSPBUP1008** 192882
1200	**XSPBUP1206** 192883	**XSPBUP1208** 192884

suitable for cable compartment width	Alu insert plate material thickness 5 mm suitable for XSPBUPxx06 Section depth 600 mm Article No. per unit unit = 1 pc.	Alu insert plate material thickness 5 mm suitable for XSPBUPxx08 Section depth 800 mm Article No. per unit unit = 1 pc.
	XSPEAL0206 192885	**XSPEAL0208** 192888
	XSPEAL0406 192886	**XSPEAL0408** 192889
	XSPEAL0606 192887	**XSPEAL0608** 192890

Doors - compatible with xEnergy Light

• Hinge included. Standard = two-way key bit lock 3 mm.



Section depth mm	Door to switchgear area closed left and right hingeable up to IP55 Article No. per unit unit = 1 pc.	Door to switchgear area ventilated left up to IP31 Article No. per unit unit = 1 pc.	Door to switchgear area ventilated right up to IP31 Article No. per unit unit = 1 pc.	Door to switchgear area 96/96 cut-out for measuring devices up to IP55 Article No. per unit unit = 1 pc.	Door to switchgear area 144/144 cut-out for measuring devices up to IP55 Article No. per unit unit = 1 pc.	Section door/Door to switchgear area for XF sections closed left and right hingeable up to IP55 Article No. per unit unit = 1 pc.	Section door/Door to switchgear area for XF sections with glass (transparent), left and right hingeable up to IP55 Article No. per unit unit = 1 pc.	Section door/Door to switchgear area for XF sections ventilated left up to IP31 Article No. per unit unit = 1 pc.
	Doors in 3 parts					**Doors as high as section**		
425	**XSDMC0604** 284194 122240*	**XSDMLV0604** 284205 122251*	**XSDMRV0604** 284214 122260*	**XSDMC0604-1-96** 112317 122607*	**XSDMC0604-1-144** 112327 122612*	**XSDMC2004** 284198 122244*	**XSDMD2004** 284203 122249*	**XSDMLV2004** 284209 122255*
600	**XSDMC0606** 284195 122241*	**XSDMLV0606** 284206 122252*	**XSDMRV0606** 284215 122261*	**XSDMC0606-1-96** 112318 122608*	**XSDMC0606-1-144** 112328 122613*	**XSDMC2006** 284199 122245*	**XSDMD2006** 284204 122250*	**XSDMLV2006** 284210 122256*
800	**XSDMC0608** 284196 122242*	**XSDMLV0608** 284207 122253*	**XSDMRV0608** 284216 122262*	**XSDMC0608-1-96** 112319 122609*	**XSDMC0608-1-144** 112329 122614*	**XSDMC2008** 284200 122246*	**XSDMD2008** 284701 122358*	**XSDMLV2008** 284211 122257*
850	-	-	-	-	-	**XSDMC20085** 143330 143466*	**XSDMD20085** 143333 143469*	**XSDMLV20085** 143338 143474*
1000	**XSDMC0610** 285506 122374*	**XSDMLV0610** 285507 122375*	**XSDMRV0610** 285508 122376*	**XSDMC0610-1-96** 112320 122610*	**XSDMC0610-1-144** 112330 122615*	**XSDMC2010** 284201 122247*	**XSDMD2010-S**[1)] 143334 143470*	**XSDMLV2010** 284212 122258*
1000	-	-	-	-	-	**XSDMC2010-S**[1)] 132952	-	-
1100	**XSDMC0611** 132995 133043*	**XSDMLV0611** 132999 133047*	**XSDMRV0611** 132997 133045*	**XSDMC0611-1-96** 143329 143465*	**XSDMC0611-1-144** 143328 143464*	**XSDMC2011-S1)** 143331 143467*	**XSDMD2011-S**[1)] 143335 143471*	**XSDMLV2011-S**[1)] 143340 143476*
1200	**XSDMC0612** 284197 122243*	**XSDMLV0612** 284208 122254*	**XSDMRV0612** 284217 122263*	**XSDMC0612-1-96** 112321 122611*	**XSDMC0612-1-144** 112331 122616*	**XSDMC2012-S**[1)] 284202 122248*	**XSDMD2012-S**[1)] 143336 143472*	**XSDMLV2012-S**[1)] 284213 122259*
1350	**XSDMC06135** 132996 133044*	**XSDMV06135** 132998 133046*	**XSDMV06135** 132998 133046*	**XSDMC06135-1-96** 143285 149196*	**XSDMC06135-1-144** 143284 149195*	**XSDMC20135-S**[1)] 143332 143468*	**XSDMD20135-S**[1)] 143337 143473*	**XSDMLV20135-S**[1)] 143341 143477*

Note

* Finish in special RAL colour

[1)] Double-winged door

. . . also for use in the Main Bus Bar Top (BXT) system

Doors (continued) - compatible with xEnergy Light

• Hinge included. Standard = two-way key bit lock 3 mm.

wa_vt34213



VT22613



VT10513



Section depth mm	Section door/Door to switchgear area for XF sections ventilated right up to IP31 Article No. per unit unit = 1 pc.	Section door/Door to switchgear area for XF sections ventilated left IP42 Article No. per unit unit = 1 pc.	Section door/Door to switchgear area for XF sections ventilated right IP42 Article No. per unit unit = 1 pc.
425	**XSDMRV2004** 284218 122264*	**XTSZDSKV4L-H2000W425** 172497	**XTSZDSKV4R-H2000W425** 172500
600	**XSDMRV2006** 284219 122265*	**XTSZDSKV4L-H2000W600** 172498	**XTSZDSKV4R-H2000W600** 172501
800	**XSDMRV2008** 284220 122266*	**XTSZDSKV4L-H2000W800** 172499	**XTSZDSKV4R-H2000W800** 172502
850	**XSDMRV20085** 143339 143475*	-	-
1000	**XSDMRV2010** 284221 122267*	**XTSZDSKV4L-H2000W1000** 172701	**XTSZDSKV4R-H2000W1000** 172702
1200	**XSDMRV2012-S** 284202 122268*	-	**XTSZDSKV4S-H2000W1200** 172504

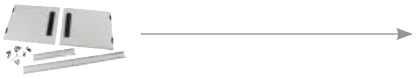
Note

* Finish in special RAL colour
. . . also for use in the Main Bus Bar Top (BXT) system

Doors (continued) - compatible with xEnergy Light

• Hinge included. Standard = two-way key bit lock 3 mm.

VT01311



Section depth mm	Door to switchgear area closed H = 300 mm up to IP55	Door to switchgear area closed H = 350 mm up to IP55
	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
	Doors to switchgear area	
425	**XSDMC0304** 166747 166760*	**XSDMC03504** 166746 166759*
600	**XSDMC0306** 166749 166762*	**XSDMC03506** 166748 166761*
800	**XSDMC0308** 132916 132919*	**XSDMC03508** 132917 132920*
	Double winged doors	
800	-	**XSDMC03508-S** 132918 132921*
1000	**XSDMC0310-S** 167571 167529*	**XSDMC03510-S** 167570 167576*
1100	**XSDMC0311-S** 167573 167531*	**XSDMC03511-S** 167572 167530*
1350	**XSDMC03135-S** 167575 167533*	**XSDMC035135-S** 167574 167532*

Note

* Finish in special RAL colour

. . . also for use in the Main Bus Bar Top (BXT) system

Doors to connection area

- Suitable for XF (Form 4) and Box Solution, incl. hinges and locking parts

wa_vt34513



Section depth mm	Module width mm	Cable area width mm	IP55 closed	IP31 left hinged	IP31 right hinged	IP42 left hinged	IP42 right hinged
			Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
800	425	375	**SDFC-20/0375** 193094	**XSDFV3L-20/0375** 193095	**XSDFV3R-20/0375** 193096	**XSDFV4L-20/0375** 193097	**XSDFV4R-20/0375** 193098
	600	200	**XSDFC-20/02** 193091	**XSDFV3L-20/02** 193092	**XSDFV3R-20/02** 193093	-	-
1000	425	575	**XSDFMC2006** 284185	**XSDFMLV2006** 284189	**XSDFMRV2006** 284191	**XSDFMLV42006** 178333	**XSDFMRV42006** 178326
	600	400	**XSDFMC2004** 284184	**XSDFMLV2004** 284188	**XSDFMRV2004** 284190	**XSDFMLV42004** 178332	**XSDFMRV42004** 178325
	800	200	**XSDFC-20/02** 193091	**XSDFV3L-20/02** 193092	**XSDFV3R-20/02** 193093	-	-
1200	425	775	**XSDFC-20/08** 193104	**XSDFV3L-20/08** 193105	**XSDFV3R-20/08** 193106	**XSDFV4L-20/08** 193107	**XSDFV4R-20/08** 193108
	600	600	**XSDFC-20/06** 193099	**XSDFV3L-20/06** 193100	**XSDFV3R-20/06** 193101	**XSDFV4L-20/06** 193102	**XSDFV4R-20/06** 193103
	800	400	**XSDFMC2004** 284184	**XSDFMLV2004** 284188	**XSDFMRV2004** 284190	**XSDFMLV42004** 178332	**XSDFMRV42004** 178325

Box Solution Doors IP55

- IP55 closed
- Doors suitable for combined section set-ups (switchgear area + cable-connection area), as well as for panels without connection area
- Both left and right hand hinges possible
- No cut-outs for rotary drives

Door height	Door width 425 mm Article No. per unit	Door width 600 mm Article No. per unit	Door width 800 mm Article No. per unit
150	**XSDMC-0604** 193277	**XSDMC-0606** 192624	**XSDMC-0608** 192625
200	**XSDMC-0804** 192845	**XSDMC-0806** 192626	**XSDMC-0808** 192627
250	**XSDMC-1004** 192846	**XSDMC-1006** 192628	**XSDMC-1008** 192629
300	**XSDMC-1204** 192847	**XSDMC-1206** 192630	**XSDMC-1208** 192631
350	**XSDMC-1404** 193278	**XSDMC-1406** 192632	**XSDMC-1408** 192633
400	**XSDMC-1604** 193279	**XSDMC-1606** 192634	**XSDMC-1608** 192635
450	**XSDMC-1804** 193280	**XSDMC-1806** 192636	**XSDMC-1808** 192637
500	**XSDMC-2004** 193281	**XSDMC-2006** 192638	**XSDMC-2008** 192639
600	**XSDMC-2404** 192848	**XSDMC-2406** 192640	**XSDMC-2408** 192641
800	**XSDMC-3204** 192849	**XSDMC-3206** 192642	**XSDMC-3208** 192643
1000	**XSDMC-4004** 192850	**XSDMC-4006** 192644	**XSDMC-4008** 192645
1200	**XSDMC-4804** 192851	**XSDMC-4806** 192646	**XSDMC-4808** 192647
1400	**XSDMC-5604** 192852	**XSDMC-5606** 192648	**XSDMC-5608** 192649
1600	**XSDMC-6404** 192853	**XSDMC-6406** 192650	**XSDMC-6408** 192651

Fitting kits for XP sections

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• IZM 20 ..... Page xx
• IZM 32 ..... Page xx
• IZM 40 ..... Page xx
• IZM 63 ..... Page xx
• IZM 58 ..... Page xx
• IZMX40 ..... Page xx
• IZM 13 ..... Page xx
• NZM 3 Form 4 ..... Page xx
• NZM 4 Form 2/4 ..... Page xx

xEnergy Main Switchboards

Fitting kits for XP sections

Overview of fitting kits for IZMX16



VT21809

Version 1: Fixed installation type
Version 2: Withdrawable
Version 3: Fixed, incl. mechanical locking
Version 4: Withdrawable, incl. mechanical lcoking
Version 5: Withdrawable, incl. position indicator
O = OPPO
E = EVEN

Including base plate, front plate, fastening bracket and fastening material. Right hand hinged module door.

Key: **XMI16/3+4/06/08/F+W/E+O**

- Type
- Size of c. b.
- Number of poles
- Width of section
- Depth of section
- Installation type
- Connection type

Fitting kit Article No. per unit	Fitting kit with modular door Article No. per unit	Poles	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
		OPPO/EVEN	O	O	O	O	O	E	E	E	E	E	O	O	O	O	O	E	E	E	E	E
		Version	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Cicuit breaker IZMX16																						
XMI16/3__/04/06/F__/E+0 132970 133018*	**XMI16/3__/04/06/F__/E+O/D** 134441 134462*		x					x														
XMI16/3+4/06/06/F__/E+0 132971 133019*	**XMI16/3+4/06/06/F__/E+O/D** 134442 134463*		x					x					x					x				
XMI16/3__/04/06/__W/E+0 132972 133020*	**XMI16/3__/04/06/__W/E+O/D** 134443 134464*			x					x													
XMI16/3+4/06/06/__W/E+0 132973 133021*	**XMI16/3+4/06/06/__W/E+O/D** 134444 134465*			x					x					x					x			
XMI20/3+4/06/06/F__/E+0 132976 133024*	**XMI20/3+4/06/06/F__/E+O/D** 134447 134468*																					
XMI20/3+4/06/06/F+W/__0 132974 133022*	**XMI20/3+4/06/06/F+W/__0/D** 134445 134466*																					
XMI20/3+4/06/06/__W/E__ 132975 133023*	**XMI20/3+4/06/06/__W/E__/D** 134446 134467*																					
XMI20/3+4/06/08/F+W/E+0 132977 133025*	**XMI20/3+4/06/08/F+W/E+O/D** 134448 134469*																					
XMI32/3__/06/06/F__/E+0 132978 133026*	**XMI32/3__/06/06/F__/E+O/D** 134449 134470*																					
XMI32/3__/06/06/__W/__0 132980 133028*	**XMI32/3__/06/06/__W/__0/D** 134451 134472*																					
XMI32/3__/06/06/__W/E__ 132981 133029*	**XMI32/3__/06/06/__W/E__/D** 134452 134473*																					
XMI32/3__/06/08/F+W/E+0 132982 133030*	**XMI32/3__/06/08/F+W/E+O/D** 134453 134474*																					
XMI32/3_4/08/06/F__/E+0 132983 133031*	**XMI32/3_4/08/06/F__/E+O/D** 134454 134475*																					
XMI32/3_4/08/06/__W/__0 132985 133033*	**XMI32/3_4/08/06/__W/__0/D** 134456 134477*																					
XMI32/3+4/08/06/__W/E__ 132986 133034*	**XMI32/3+4/08/06/__W/E__/D** 134457 134478*																					
XMI32/3_4/08/08/F+W/E+0 132987 133035*	**XMI32/3_4/08/08/F+W/E+O/D** 134458 134479*																					
XMI40/3+4/10/08/__W/__0 132988 133036*	**XMI40/3+4/10/08/__W/__0** 134459 134480*																					
XMI40/3+4/10/08/__W/E__ 135254 135255*	**XMI40/3+4/10/08/__W/E__/D** 135252 135253*																					
XMI40/3+4/11/08/F+W/__0 149187 149197*	-																					
XMI40/3+4/11/08/F+W/E__ 149188 149198*	-																					
XMI63/3__/11/08/F+W/E+0 132989 133037*	**XMI63/3__/11/08/F+W/E+O/D** 132989 133037*																					
XMI63/3+4/135/08/F+W/E+0 132990 133038*	**XMI63/3+4/135/08/F+W/E+O/D** 134461 134482*																					
XMI63/3+4/135/08/F+W/E+0 132990 133038* in combination with XSMIB20-Z, No. 150399 and intermediate frame (XSAF200108, No. 289909)	**XMI63/3+4/135/08/F+W/E+O/D** 134461 134482*																					

Note * Finish in special RAL colour

Overview of fitting kits for IZMX16 – Side/Side

Incl. top/rear/bottom partition,
Incl. carrier plate and fixing material
(Not included: snap-on covers)

VT68514



Section width mm	Installation type	Type Article No. per unit
800	Fixed	**XMIX16F0802** 174555
1000	Fixed	**XMIX16F1002** 174556
800	Withdrawable	**XMIX16W0802** 174557
1000	Withdrawable	**XMIX16W1002** 174558

Key: **XMIX16F0802**

Type
Size of c. b.
Installation type
Width of section
Number of switches

Snap-on covers for IZMX16 – Side/Side

Incl. 2 snap-on covers, fixing brackets and screws

VT68114



Section width mm	Installation type	Type Article No. per unit
800	Fixed	**XMIX16F0802C** 174559
1000	Fixed	**XMIX16F1002C** 174560
800	Withdrawable	**XMIX16W0802C** 174561
1000	Withdrawable	**XMIX16W1002C** 174562

Vertical separation panel/partition for IZMX16 – Side/Side

Incl. vertical separation panel, vertical and horizontal carrier profiles, mounting blocks and all screws

VT65614



Section width mm	Installation type	Type Article No. per unit
800	Fixed Withdrawable	**XMIX16CCB-B-06** 174567
1000	Fixed Withdrawable	**XMIX16CCB-B-08** 174568

xEnergy Main Switchboards

Fitting kits for XP sections

Overview of fitting kits for IZM20



VT21809

Version 1: Fixed installation type
Version 2: Withdrawable
Version 3: Fixed, incl. mechanical locking
Version 4: Withdrawable, incl. mechanical lcoking
Version 5: Withdrawable, incl. position indicator
O = OPPO
E = EVEN

Including base plate, front plate, fastening bracket and fastening material. Right hand hinged module door.

Key: **XMI20/3+4/06/08/F+W/E+O**

- Type
- Size of c. b.
- Number of poles
- Width of section
- Depth of section
- Installation type
- Connection type

Fitting kit Article No. per unit	Fitting kit with modular door Article No. per unit	Poles	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
		OPPO/EVEN	O	O	O	O	O	E	E	E	E	E	O	O	O	O	O	E	E	E	E	E
		Version	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Cicuit breaker IZM20																						
XMI16/3__/04/06/F__/E+0 132970 133018*	**XMI16/3__/04/06/F__/E+O/D** 134441 134462*																					
XMI16/3+4/06/06/F__/E+0 132971 133019*	**XMI16/3+4/06/06/F__/E+O/D** 134442 134463*																					
XMI16/3__/04/06/__W/E+0 132972 133020*	**XMI16/3__/04/06/__W/E+O/D** 134443 134464*																					
XMI16/3+4/06/06/__W/E+0 132973 133021*	**XMI16/3+4/06/06/__W/E+O/D** 134444 134465*																					
XMI20/3+4/06/06/F__/E+0 132976 133024*	**XMI20/3+4/06/06/F__/E+O/D** 134447 134468*		x					x					x					x					
XMI20/3+4/06/06/F+W/__0 132974 133022*	**XMI20/3+4/06/06/F+W/__O/D** 134445 134466*		x	x				x	x				x	x				x	x				
XMI20/3+4/06/06/__W/E__ 132975 133023*	**XMI20/3+4/06/06/__W/E__/D** 134446 134467*								x										x				
XMI20/3+4/06/08/F+W/E+0 132977 133025*	**XMI20/3+4/06/08/F+W/E+O/D** 134448 134469*		x	x				x	x				x	x				x	x				
XMI32/3__/06/06/F__/E+0 132978 133026*	**XMI32/3__/06/06/F__/E+O/D** 134449 134470*		x		x			x		x													
XMI32/3__/06/06/__W/__0 132980 133028*	**XMI32/3__/06/06/__W/__O/D** 134451 134472*			x		x	x																
XMI32/3__/06/06/__W/E__ 132981 133029*	**XMI32/3__/06/06/__W/E__/D** 134452 134473*								x		x	x											
XMI32/3__/06/08/F+W/E+0 132982 133030*	**XMI32/3__/06/08/F+W/E+O/D** 134453 134474*		x	x	x	x	x	x	x	x	x	x	x	x				x	x				
XMI32/3_4/08/06/F__/E+0 132983 133031*	**XMI32/3_4/08/06/F__/E+O/D** 134454 134475*		x		x			x		x			x		x			x		x			
XMI32/3_4/08/06/__W/__0 132985 133033*	**XMI32/3_4/08/06/__W/__O/D** 134456 134477*			x		x	x							x		x	x						
XMI32/3+4/08/06/__W/E__ 132986 133034*	**XMI32/3+4/08/06/__W/E__/D** 134457 134478*								x		x	x							x		x	x	
XMI32/3_4/08/08/F+W/E+0 132987 133035*	**XMI32/3_4/08/08/F+W/E+O/D** 134458 134479*		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
XMI40/3+4/10/08/__W/__0 132988 133036*	**XMI40/3+4/10/08/__W/__O** 134459 134480*		x	x	x	x	x	x		x	x	x	x	x	x	x		x					
XMI40/3+4/10/08/__W/E__ 135254 135255*	**XMI40/3+4/10/08/__W/E__/D** 135252 135253*								x		x	x							x		x	x	
XMI40/3+4/11/08/F+W/__0 149187 149197*	-		x	x	x	x	x						x	x	x	x	x						
XMI40/3+4/11/08/F+W/E__ 149188 149198*	-							x	x	x	x	x						x	x	x	x	x	
XMI63/3__/11/08/F+W/E+0 132989 133037*	**XMI63/3__/11/08/F+W/E+O/D** 132989 133037*																						
XMI63/3+4/135/08/F+W/E+0 132990 133038*	**XMI63/3+4/135/08/F+W/E+O/D** 134461 134482*																						
XMI63/3+4/135/08/F+W/E+0 132990 133038* in combination with XSMIB20-Z, No. 150399 and intermediate frame (XSAF200108, No. 289909)	**XMI63/3+4/135/08/F+W/E+O/D** 134461 134482*																						

Note * Finish in special RAL colour

Overview of fitting kits for IZM32



VT21809

Version 1: Fixed installation type
Version 2: Withdrawable
Version 3: Fixed, incl. mechanical locking
Version 4: Withdrawable, incl. mechanical lcoking
Version 5: Withdrawable, incl. position indicator
O = OPPO
E = EVEN

Including base plate, front plate, fastening bracket and fastening material. Right hand hinged module door.

Key: **XMI32/3+4/06/08/F+W/E+O**

- Type
- Size of c. b.
- Number of poles
- Width of section
- Depth of section
- Installation type
- Connection type

Fitting kit Article No. per unit	Fitting kit with modular door Article No. per unit	Poles	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
		OPPO/EVEN	O	O	O	O	O	E	E	E	E	E	O	O	O	O	O	E	E	E	E	E
		Version	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Cicuit breaker IZM32																						
XMI16/3__/04/06/F__/E+O 132970 133018*	**XMI16/3__/04/06/F__/E+O/D** 134441 134462*																					
XMI16/3+4/06/06/F__/E+O 132971 133019*	**XMI16/3+4/06/06/F__/E+O/D** 134442 134463*																					
XMI16/3__/04/06/__W/E+O 132972 133020*	**XMI16/3__/04/06/__W/E+O/D** 134443 134464*																					
XMI16/3+4/06/06/__W/E+O 132973 133021*	**XMI16/3+4/06/06/__W/E+O/D** 134444 134465*																					
XMI20/3+4/06/06/F__/E+O 132976 133024*	**XMI20/3+4/06/06/F__/E+O/D** 134447 134468*																					
XMI20/3+4/06/06/F+W/__O 132974 133022*	**XMI20/3+4/06/06/F+W/__O/D** 134445 134466*																					
XMI20/3+4/06/06/__W/E__ 132975 133023*	**XMI20/3+4/06/06/__W/E__/D** 134446 134467*																					
XMI20/3+4/06/08/F+W/E+O 132977 133025*	**XMI20/3+4/06/08/F+W/E+O/D** 134448 134469*																					
XMI32/3__/06/06/F__/E+O 132978 133026*	**XMI32/3__/06/06/F__/E+O/D** 134449 134470*		x					x														
XMI32/3__/06/06/__W/__O 132980 133028*	**XMI32/3__/06/06/__W/__O/D** 134451 134472*			x																		
XMI32/3__/06/06/__W/E__ 132981 133029*	**XMI32/3__/06/06/__W/E__/D** 134452 134473*								x													
XMI32/3__/06/08/F+W/E+O 132982 133030*	**XMI32/3__/06/08/F+W/E+O/D** 134453 134474*		x	x				x	x													
XMI32/3_4/08/06/F__/E+O 132983 133031*	**XMI32/3_4/08/06/F__/E+O/D** 134454 134475*		x		x			x		x			x		x			x		x		
XMI32/3_4/08/06/__W/__O 132985 133033*	**XMI32/3_4/08/06/__W/__O/D** 134456 134477*			x		x	x							x		x	x					
XMI32/3+4/08/06/__W/E__ 132986 133034*	**XMI32/3+4/08/06/__W/E__/D** 134457 134478*								x		x	x							x		x	x
XMI32/3_4/08/08/F+W/E+O 132987 133035*	**XMI32/3_4/08/08/F+W/E+O/D** 134458 134479*		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
XMI40/3+4/10/08/__W/__O 132988 133036*	**XMI40/3+4/10/08/__W/__O** 134459 134480*		x	x	x	x	x	x		x												
XMI40/3+4/10/08/__W/E__ 135254 135255*	**XMI40/3+4/10/08/__W/E__/D** 135252 135253*								x		x	x										
XMI40/3+4/11/08/F+W/__O 149187 149197*	-		x	x	x	x	x															
XMI40/3+4/11/08/F+W/E__ 149188 149198*	-							x	x	x	x	x										
XMI63/3__/11/08/F+W/E+O 132989 133037*	**XMI63/3__/11/08/F+W/E+O/D** 132989 133037*																					
XMI63/3+4/135/08/F+W/E+O 132990 133038*	**XMI63/3+4/135/08/F+W/E+O/D** 134461 134482*																					
XMI63/3+4/135/08/F+W/E+O 132990 133038* in combination with XSMIB20-Z, No. 150399 and intermediate frame (XSAF200108, No. 289909)	**XMI63/3+4/135/08/F+W/E+O/D** 134461 134482*																					

Note * Finish in special RAL colour

Overview of fitting kits for IZM40



VT21809

Version 1: Fixed installation type
Version 2: Withdrawable
Version 3: Fixed, incl. mechanical locking
Version 4: Withdrawable, incl. mechanical lcoking
Version 5: Withdrawable, incl. position indicator
O = OPPO
E = EVEN

Key: **XMI40/3+4/06/08/F+W/E+O**

- Type
- Size of c. b.
- Number of poles
- Width of section
- Depth of section
- Installation type
- Connection type

Including base plate, front plate, fastening bracket and fastening material. Right hand hinged module door.

Fitting kit Article No. per unit	Fitting kit with modular door Article No. per unit	Poles	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
		OPPO/EVEN	O	O	O	O	O	E	E	E	E	E	O	O	O	O	O	E	E	E	E	E
		Version	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Cicuit breaker IZM40																						
XMI16/3__/04/06/F__/E+O 132970 133018*	**XMI16/3__/04/06/F__/E+O/D** 134441 134462*																					
XMI16/3+4/06/06/F__/E+O 132971 133019*	**XMI16/3+4/06/06/F__/E+O/D** 134442 134463*																					
XMI16/3__/04/06/__W/E+O 132972 133020*	**XMI16/3__/04/06/__W/E+O/D** 134443 134464*																					
XMI16/3+4/06/06/__W/E+O 132973 133021*	**XMI16/3+4/06/06/__W/E+O/D** 134444 134465*																					
XMI20/3+4/06/06/F__/E+O 132976 133024*	**XMI20/3+4/06/06/F__/E+O/D** 134447 134468*																					
XMI20/3+4/06/06/F+W/__O 132974 133022*	**XMI20/3+4/06/06/F+W/__O/D** 134445 134466*																					
XMI20/3+4/06/06/__W/E__ 132975 133023*	**XMI20/3+4/06/06/__W/E__/D** 134446 134467*																					
XMI20/3+4/06/08/F+W/E+O 132977 133025*	**XMI20/3+4/06/08/F+W/E+O/D** 134448 134469*																					
XMI32/3__/06/06/F__/E+O 132978 133026*	**XMI32/3__/06/06/F__/E+O/D** 134449 134470*																					
XMI32/3__/06/06/__W/__O 132980 133028*	**XMI32/3__/06/06/__W/__O/D** 134451 134472*																					
XMI32/3__/06/06/__W/E__ 132981 133029*	**XMI32/3__/06/06/__W/E__/D** 134452 134473*																					
XMI32/3__/06/08/F+W/E+O 132982 133030*	**XMI32/3__/06/08/F+W/E+O/D** 134453 134474*																					
XMI32/3_4/08/06/F__/E+O 132983 133031*	**XMI32/3_4/08/06/F__/E+O/D** 134454 134475*																					
XMI32/3_4/08/06/__W/__O 132985 133033*	**XMI32/3_4/08/06/__W/__O/D** 134456 134477*																					
XMI32/3+4/08/06/__W/E__ 132986 133034*	**XMI32/3+4/08/06/__W/E__/D** 134457 134478*																					
XMI32/3_4/08/08/F+W/E+O 132987 133035*	**XMI32/3_4/08/08/F+W/E+O/D** 134458 134479*																					
XMI40/3+4/10/08/__W/__O 132988 133036*	**XMI40/3+4/10/08/__W/__O** 134459 134480*			x		x	x	x		x			x	x				x				
XMI40/3+4/10/08/__W/E__ 135254 135255*	**XMI40/3+4/10/08/__W/E__/D** 135252 135253*								x		x	x							x			
XMI40/3+4/11/08/F+W/__O 149187 149197*	-		x	x	x	x	x						x	x	x	x	x					
XMI40/3+4/11/08/F+W/E__ 149188 149198*	-							x	x	x	x	x						x	x	x	x	x
XMI63/3__/11/08/F+W/E+O 132989 133037*	**XMI63/3__/11/08/F+W/E+O/D** 132989 133037*																					
XMI63/3+4/135/08/F+W/E+O 132990 133038*	**XMI63/3+4/135/08/F+W/E+O/D** 134461 134482*																					
XMI63/3+4/135/08/F+W/E+O 132990 133038* in combination with XSMIB20-Z, No. 150399 and intermediate frame (XSAF200108, No. 289909)	**XMI63/3+4/135/08/F+W/E+O/D** 134461 134482*																					

Note * Finish in special RAL colour

Overview of fitting kits for IZM63



VT21809

Version 1: Fixed installation type
Version 2: Withdrawable
Version 3: Fixed, incl. mechanical locking
Version 4: Withdrawable, incl. mechanical lcoking
Version 5: Withdrawable, incl. position indicator
O = OPPO
E = EVEN

Key: **XMI63/3+4/06/08/F+W/E+O**

- Type
- Size of c. b.
- Number of poles
- Width of section
- Depth of section
- Installation type
- Connection type

Including base plate, front plate, fastening bracket and fastening material. Right hand hinged module door.

Fitting kit Article No. per unit	Fitting kit with modular door Article No. per unit	Poles	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
		OPPO/EVEN	O	O	O	O	O	E	E	E	E	E	O	O	O	O	O	E	E	E	E	E
		Version	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Cicuit breaker IZM63																						
XMI16/3__/04/06/F__/E+O 132970 133018*	**XMI16/3__/04/06/F__/E+O/D** 134441 134462*																					
XMI16/3+4/06/06/F__/E+O 132971 133019*	**XMI16/3+4/06/06/F__/E+O/D** 134442 134463*																					
XMI16/3__/04/06/__W/E+O 132972 133020*	**XMI16/3__/04/06/__W/E+O/D** 134443 134464*																					
XMI16/3+4/06/06/__W/E+O 132973 133021*	**XMI16/3+4/06/06/__W/E+O/D** 134444 134465*																					
XMI20/3+4/06/06/F__/E+O 132976 133024*	**XMI20/3+4/06/06/F__/E+O/D** 134447 134468*																					
XMI20/3+4/06/06/F+W/__O 132974 133022*	**XMI20/3+4/06/06/F+W/__O/D** 134445 134466*																					
XMI20/3+4/06/06/__W/E__ 132975 133023*	**XMI20/3+4/06/06/__W/E__/D** 134446 134467*																					
XMI20/3+4/06/08/F+W/E+O 132977 133025*	**XMI20/3+4/06/08/F+W/E+O/D** 134448 134469*																					
XMI32/3__/06/06/F__/E+O 132978 133026*	**XMI32/3__/06/06/F__/E+O/D** 134449 134470*																					
XMI32/3__/06/06/__W/__O 132980 133028*	**XMI32/3__/06/06/__W/__O/D** 134451 134472*																					
XMI32/3__/06/06/__W/E__ 132981 133029*	**XMI32/3__/06/06/__W/E__/D** 134452 134473*																					
XMI32/3__/06/08/F+W/E+O 132982 133030*	**XMI32/3__/06/08/F+W/E+O/D** 134453 134474*																					
XMI32/3_4/08/06/F__/E+O 132983 133031*	**XMI32/3_4/08/06/F__/E+O/D** 134454 134475*																					
XMI32/3_4/08/06/__W/__O 132985 133033*	**XMI32/3_4/08/06/__W/__O/D** 134456 134477*																					
XMI32/3+4/08/06/__W/E__ 132986 133034*	**XMI32/3+4/08/06/__W/E__/D** 134457 134478*																					
XMI32/3_4/08/08/F+W/E+O 132987 133035*	**XMI32/3_4/08/08/F+W/E+O/D** 134458 134479*																					
XMI40/3+4/10/08/__W/__O 132988 133036*	**XMI40/3+4/10/08/__W/__O** 134459 134480*																					
XMI40/3+4/10/08/__W/E__ 135254 135255*	**XMI40/3+4/10/08/__W/E__/D** 135252 135253*																					
XMI40/3+4/11/08/F+W/__O 149187 149197*	-																					
XMI40/3+4/11/08/F+W/E__ 149188 149198*	-																					
XMI63/3__/11/08/F+W/E+O 132989 133037*	**XMI63/3__/11/08/F+W/E+O/D** 132989 133037*		x	x				x	x													
XMI63/3+4/135/08/F+W/E+O 132990 133038*	**XMI63/3+4/135/08/F+W/E+O/D** 134461 134482*		x	x	x	x	x	x	x	x	x	x	x	x				x	x			
XMI63/3+4/135/08/F+W/E+O 132990 133038* in combination with XSMIB20-Z, No. 150399 and intermediate frame (XSAF200108, No. 289909)	**XMI63/3+4/135/08/F+W/E+O/D** 134461 134482*														x	x	x			x	x	x

Note * Finish in special RAL colour

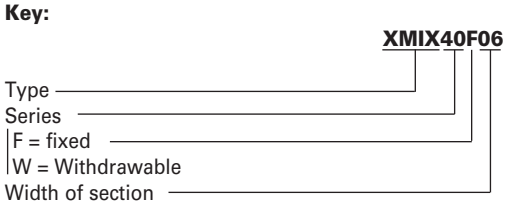
Fitting Kits for IZMX40

VT21709



Section width mm	IZMX40 in section depth of 600/800 mm Fixed in OPPO/EVEN Article No. per unit	IZMX40 in section depth of 600/800 mm Withdrawable in OPPO Article No. per unit	IZMX40 in section depth of 600 mm Withdrawable in EVEN Article No. per unit
600	**XMIX40F06** 166751 166764*	**XMIX40W06** 166754 166767*	**XMIX40W06-50** 166757 166770*
800	**XMIX40F08** 166752 166765*	**XMIX40W08** 166755 166768*	**XMIX40W08-50** 166758 166771*
1000	**XMIX40F10**** 166753 166766*	**XMI40W10**** 166756 166769*	

Key:



Number of poles:
Section width 600 mm = 3-pole
Section width 600-1000 mm = 3+4-pole

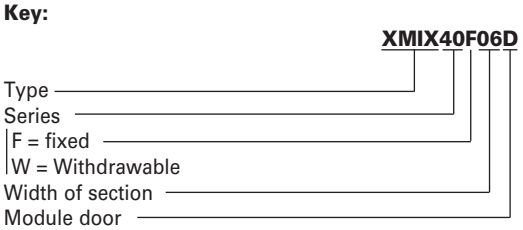
Fitting Kits for IZMX40

VT21709



Section width mm	IZMX40 in section depth of 600/800 mm Fixed in EVEN/OPPO Article No. per unit	IZMX40 in section depth of 600/800 mm withdrawable in EVEN/OPPO Article No. per unit
600	**XMIX40F06D** 171670	**XMIX40W06D** 171673
800	**XMIX40F08D** 171671	**XMIX40W08D** 171674
1000	**XMIX40F10D** 171672	**XMIX40W10D** 171675

Key:



Number of poles:
Section width 600 mm = 3-pole
Section width 600-1000 mm = 3+4-pole

Note

* Finish in special RAL colour
** 1000 mm section width is only possible with a section depth of 800 mm

Terminal Connection Set

- Selection of Connection Sets according to the specifications of the operating instructions

sg01715



Terminal Connection Set 3-pole Article No. per unit	Terminal Connection Set 4-pole Article No. per unit
IZMX-TSET1 177176	**IZMX-TSET3** 177178
IZMX-TSET2 177177	**IZMX-TSET4** 177179
IZMX-TSET5 177180	**IZMX-TSET8** 177183
IZMX-TSET6 177181	**IZMX-TSET9** 177184
IZMX-TSET7 177182	-
IZMX-TSET10 177185	-

Fitting kits for IZM13

Including base plate, front plate, fastening bracket and fastening material.

VT21709



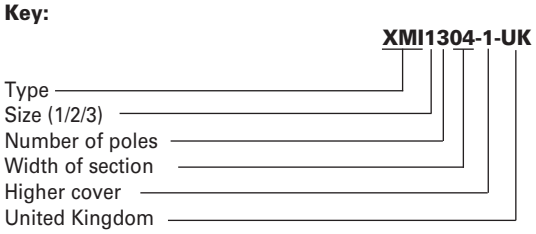
VT21409



Section width mm	IZM1 fixed and withdrawable	IZM2 fixed and withdrawable	IZM3 fixed and withdrawable
	Article No. per unit	Article No. per unit	Article No. per unit
IZM13			
425	**XMI1304** 283955 122143*	-	-
600	**XMI1406** 283964 122145*	**XMI2306** 283973 122146*	-
800	-	**XMI2408** 283975 122148*	**XMI3308** 283977 122150*
1200	-	-	**XMI3412** 283978 122151*
With higher front cover for EVEN type of connection			
IZM13			
425	**XMI1304-1** 285680 122379*	-	-
600	**XMI1406-1** 285681 122380*	**XMI2306-1** 283974 122147*	-
800	-	**XMI2408-1** 283976 122419*	**XMI3308-1** 105004 122427*

Section width mm	IZM1 fixed and withdrawable	IZM2 fixed and withdrawable
	Article No. per unit	Article No. per unit
IZM13 (UK types)		
425	-	-
600	**XMI1406-UK** 118868 122648*	-
800	-	**XMI2408-UK** 110248 122590*
1200	-	-
With higher front cover for EVEN type of connection		
IZM13 (UK types)		
425	-	-
600	**XMI1406-1-UK** 118869 122649*	-
800	-	**XMI2408-1-UK** 110249 122591*

Key:



Note * Finish in special RAL colour

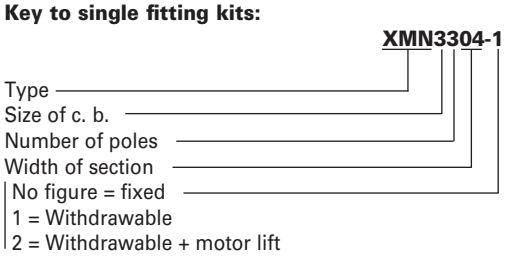
Fitting kits for NZM3 Form 4

Including base plate, front plate, fastening bracket, cross ridges and fastening material.

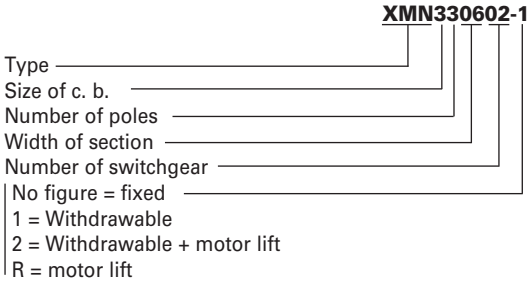


Section width mm	Fitting kit for NZM3 in incoming/ outgoing section Article No. per unit	Fitting kit for NZM3 in incoming/ outgoing section withdrawable Article No. per unit	Fitting kit for NZM3 in incoming/ outgoing section withdrawable with motor lift Article No. per unit	Fitting kit for 2 NZM3 3-pole in incoming/ outgoing section Article No. per unit	Fitting kit for 2 NZM3 4-pole in incoming/ outgoing section Article No. per unit	Fitting kit for 2 NZM3 3-pole in incoming/ outgoing section withdrawable Article No. per unit	Fitting kit for 2 NZM3 3-pole in incoming/ outgoing section withdrawable with motor lift Article No. per unit	Fitting kit for 2 NZM3 4-pole in incoming/ outgoing section withdrawable Article No. per unit
NZM3 Form 4								
425	**XMN3304** 124411 124412*	**XMN3304-1** 129009 129012*	**XMN3304-2** 129010 129013*	-	-	-	-	-
600	-	-	-	**XMN330602** 107982 122555*	**XMN340602** 107983 122556*	**XMN330602-1** 110274 122602*	**XMN330602-R** 110277 122605*	-
800	-	-	-	-	-	-	-	**XMN340802-1** 110275 122603*

Key to single fitting kits:



Key to double fitting kits:

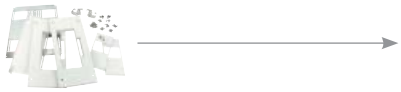


Note * Finish in special RAL colour

Fitting kits for NZM3 Form 4 (continued)

Including base plate, front plate, fastening bracket, cross ridges and fastening material.

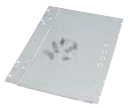
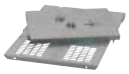
VT01609



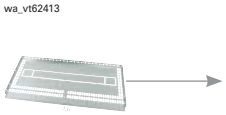
Section width mm	Fitting kit for 2 NZM3 3-pole in incoming/outgoing section withdrawable with motor lift Article No. per unit	Fitting kit for 2 NZM3 4-pole in incoming/outgoing section withdrawable with motor lift Article No. per unit
NZM3 Form 4		
425	-	-
600	**XMN330602-2** 125995 125996*	-
800	-	**XMN340802-2** 125997 125998*

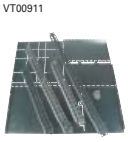
Note * Finish in special RAL colour

Mounting Plate NZM3 Form 4

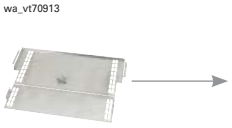
	wa_vt34313	wa_vt62813	vt17817
			
Section width mm	Partition switchgear area/ busbar area (mounting plate) Form 2/4 Article No. per unit unit = 1 pc.	Mounting plate partition switchgear/main busbar swivel-mounted Article No. per unit unit = 1 pc.	Mounting plate for bus duct connection Article No. per unit unit = 1 pc.
425	**XPBMB0604** 284107	**XPBMB0604-ROT** 112312	**XPBM0604-BUS** 188291
600	**XPBMB0606** 284108	**XPBMB0606-ROT** 112313	**XPBM0606-BUS** 188292
800	**XPBMB0608** 284109	**XPBMB0608-ROT** 112314	**XPBM0608-BUS** 188293

Partitions NZM3 Form 4











Section width mm	Partition connection area/ switchgear area Form 4 Article No. per unit unit = 1 pc.	Partition switchgear area/ switchgear area Form 4 Article No. per unit unit = 1 pc.	Separation panel between connection areas of 2x NZM3 Article No. per unit unit = 1 pc.	Partition between feeder copper and connection copper on main busbar with Form 4 only for EVEN Article No. per unit unit = 1 pc.	Partition busbar area/connection area (only NZM) Section depth 600 mm Form 4 Article No. per unit unit = 1 pc.	Partition busbar area/connection area (only NZM) Section depth 800 mm Form 4 Article No. per unit unit = 1 pc.	Partition connection area Form 4 Article No. per unit unit = 1 pc.
425	**XPNMCB04** 284174	**XPMMB0404** 284163	**XPNCCB** 126009	**XPNBCB-E-04** 121448	**XPNBCB0402** 289174	**XPNBCB0404** 289176	**XPC0604** 284115
600	**XPNMCB06** 284175	**XPMMB0604** 284164	**-**	**XPNBCB-E-06** 121449	**XPNBCB0602** 289175	**XPNBCB0604** 289177	**XPC0606** 284116
800	**XPNMCB08** 116455	**XPMMB0804** 284165	**-**	**XPNBCB-E-08** 121450	**XPNBCB0802** 118735	**XPNBCB0804** 118736	**XPC0608** 284117

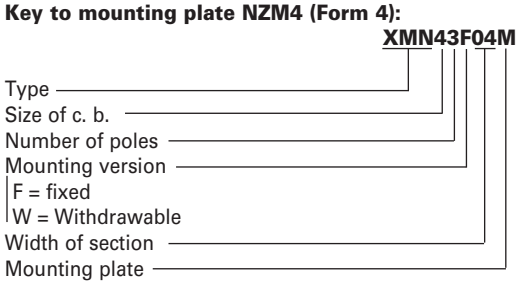
Mounting Plates NZM4 Form 2/4



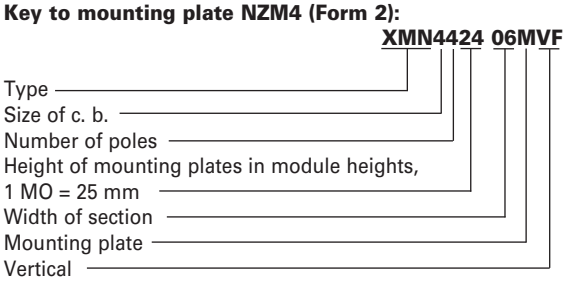


Section width mm	Mounting plate NZM4 incoming/outgoing section fixed/withdrawable/motor lift Width 425 mm Article No. per unit unit = 1 pc.	Mounting plate NZM4 incoming/outgoing section fixed/withdrawable/motor lift Width 600 mm Article No. per unit unit = 1 pc.	Mounting plate NZM4 incoming/outgoing section fixed/withdrawable/motor lift Width 800 mm Article No. per unit unit = 1 pc.	Mounting plate NZM4 3-pole incoming/outgoing section fixed/motor lift Article No. per unit unit = 1 pc.	Mounting plate NZM4 3-pole incoming/outgoing section withdrawable/motor lift Article No. per unit unit = 1 pc.	Mounting plate NZM4 4-pole incoming/outgoing section fixed/motor lift Article No. per unit unit = 1 pc.	Mounting plate NZM4 4-pole incoming/outgoing section withdrawable/motor lift Article No. per unit unit = 1 pc.	Mounting plate 2x NZM4 3-pole incoming/outgoing section fixed/motor lift Article No. per unit unit = 1 pc.
	NZM 4 Form 2 [1]			**NZM 4 Form 4**				
425	**XMN442404MVF** 284081	-	-	**XMN43F04M** 177122	-	-	-	-
600	-	**XMN442406MVF** 284085	-	**XMN4F06M** 177124	**XMN4W06M** 177094	**XMN4F06M** 177124	**XMN4W06M** 177094	**XMN4F0602M** 177096
800	-	-	**XMN442408MVF** 290348	-	-	**XMN4F08M** 177125	**XMN4W08M** 177095	-
1000	-	-	-	-	-	-	-	-

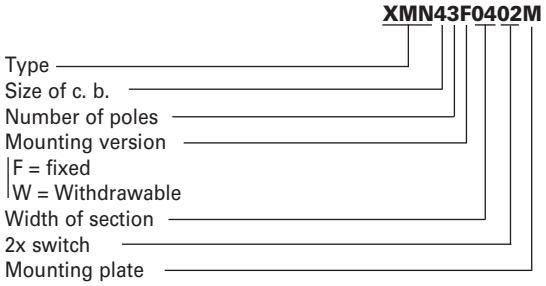
Key to mounting plate NZM4 (Form 4):



Key to mounting plate NZM4 (Form 2):



Key to mounting plate 2x NZM4:



Note [1] Form 2 does not require different mounting plates (fixed, withdrawable, motor lift).

Mounting Plates NZM 4 Form 2/4 (continued)

vt03015



Section width mm	Mounting plate 2x NZM4 4-pole incoming/outgoing section fixed/motor lift Article No. per unit unit = 1 pc.	Mounting plate 2x NZM4 3-pole incoming/outgoing section withdrawable/motor lift Article No. per unit unit = 1 pc.	Mounting plate 2x NZM4 4-pole incoming/outgoing section withdrawable/motor lift Article No. per unit unit = 1 pc.
	NZM 4 Form 4		
425	-	-	-
600	-	-	-
800	**XMN4F0802M** 177097	**XMN4W0802M** 177098	-
1000	-	-	**XMN4W1002M** 177099

Key to mounting plate NZM4 (Form 4):

XMN43F04M

- Type
- Size of c. b.
- Number of poles
- Mounting version
  - F = fixed
  - W = Withdrawable
- Width of section
- Mounting plate

Key to mounting plate NZM4 (Form 2):

XMN4424 06MVF

- Type
- Size of c. b.
- Number of poles
- Height of mounting plates in module heights, 1 MO = 25mm
- Width of section
- Mounting plate
- Vertical

Key to mounting plate 2x NZM4:

XMN43F0402M

- Type
- Size of c. b.
- Number of poles
- Mounting version
  - F = fixed
  - W = Withdrawable
- Width of section
- 2x switch
- Mounting plate

Front cover NZM4 Form 4



















Section width mm	Front cover NZM4 3-pole fixed/remote operation IP31 Article No. per unit unit = 1 pc.	Front cover NZM4 3-pole Fixed installation with mechanical lock IP31 Article No. per unit unit = 1 pc.	Front cover NZM4 3-pole withdrawable IP31 Article No. per unit unit = 1 pc.	Front cover NZM4 3-pole withdrawable with remote operation IP31 Article No. per unit unit = 1 pc.	Front cover NZM4 4-pole fixed/remote operation IP31 Article No. per unit unit = 1 pc.	Front cover NZM4 4-pole Fixed installation with mechanical lock IP31 Article No. per unit unit = 1 pc.	Front cover NZM4 4-pole withdrawable IP31 Article No. per unit unit = 1 pc.	Front cover NZM4 4-pole withdrawable with remote operation IP31 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 3-pole fixed/remote operation IP31 Article No. per unit unit = 1 pc.
425	**XMN43F04C** 177100 186611*	**XMN43F04C-XMV** 177101 186612*	-	-	-	-	-	-	-
600	**XMN43F06C** 177104 186615*	**XMN43F06C-XMV** 177105 186616*	**XMN43W06C** 180484 186541*	**XMN43W06C-XR** 180488 186541*	**XMN44F06C** 177106 186617*	**XMN44F06C-XMV** 177107 186618*	**XMN44W06C** 180485 186542*	**XMN44W06C-XR** 180489 186546*	**XM2N43F06C** 180480 186537*
800	-	-	-	-	**XMN4F08C** 177108 186619*	**XMN4F08C-XMV** 177109 186620*	**XMN44W08C** 180486 186543*	**XMN44W08C-XR** 180490 186547*	-
1000	-	-	-	-	-	-	-	-	-

Key to front cover NZM4 IP31:

XMN43F06C-XR

- Type
- Size of c. b.
- Number of poles
- Mounting version
  - F = fixed
  - W = Withdrawable
- Width of section
- Cover
- Combination options
  - XR = Remote operation
  - XMV = Mechanical lock

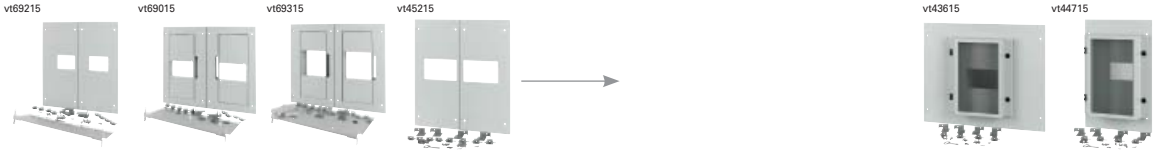
Key to front cover NZM4 IP55:

XMN43F06C-55-XR

- Type
- Size of c. b.
- Number of poles
- Mounting version
  - F = fixed
  - W = Withdrawable
- Width of section
- Cover
- Degree of protection IP55
- Combination options
  - XR = Remote operation
  - XMV = Mechanical lock

Note * Finish in special RAL colour

Front cover NZM4 Form 4 (continued)



Section width mm	Front cover 2x NZM4 3-pole Fixed installation with mechanical lock IP31 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 3-pole withdrawable IP31 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 3-pole withdrawable with remote operation IP31 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 4-pole fixed/remote operation IP31 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 4-pole Fixed installation with mechanical lock IP31 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 4-pole withdrawable IP31 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 4-pole withdrawable with remote operation IP31 Article No. per unit unit = 1 pc.	Front cover NZM4 3-pole fixed/remote operation IP42/IP55 Article No. per unit unit = 1 pc.	Front cover NZM4 3-pole Fixed installation with mechanical lock IP42/IP55 Article No. per unit unit = 1 pc.
425	-	-	-	-	-	-	-	**XMN43F04C-55** 180497 186554*	**XMN43F04C-55-XMV** 180495 186552*
600	**XM2N43F06C-XMV** 180482 186539*	-	-	-	-	-	-	**XMN43F06C-55** 180501 186558*	**XMN43F06C-55-XMV** 180499 186556*
800	-	**XM2N43W08C** 180491 186548*	**XM2N43W08C-XR** 180493 186550*	**XM2N44F08C** 180481 186538*	**XM2N44F08C-XMV** 180483 186540*	-	-	-	-
1000	-	-	-	-	-	-	**XM2N44W10C-XR** 180494 186551*	-	-

Key to front cover NZM4 IP31:

XMN43F06C-XR

- Type
- Size of c. b.
- Number of poles
- Mounting version
  - F = fixed
  - W = Withdrawable
- Width of section
- Cover
- Combination options
  - XR = Remote operation
  - XMV = Mechanical lock

Key to front cover NZM4 IP55:

XMN43F06C-55-XR

- Type
- Size of c. b.
- Number of poles
- Mounting version
  - F = fixed
  - W = Withdrawable
- Width of section
- Cover
- Degree of protection IP55
- Combination options
  - XR = Remote operation
  - XMV = Mechanical lock

Note * Finish in special RAL colour

Front cover NZM4 Form 4 (continued)



Section width mm	Front cover NZM4 3-pole withdrawable IP42/IP55 Article No. per unit unit = 1 pc.	Front cover NZM4 3-pole withdrawable with remote operation IP42/IP55 Article No. per unit unit = 1 pc.	Front cover NZM4 4-pole fixed/remote operation IP42/IP55 Article No. per unit unit = 1 pc.	Front cover NZM4 4-pole Fixed installation with mechanical lock IP42/IP55 Article No. per unit unit = 1 pc.	Front cover NZM4 4-pole withdrawable IP42/IP55 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 3-pole fixed/remote operation IP42/IP55 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 3-pole Fixed installation with mechanical lock IP42/IP55 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 3-pole withdrawable IP42/IP55 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 3-pole withdrawable with remote operation IP42/IP55 Article No. per unit unit = 1 pc.
425	**XMN43W04C-55** 180509 186488*	**XMN43W04C-55-XR** 180513 186492*	-	-	-	-	-	-	-
600	**XMN43W06C-55** 180510 186489*	**XMN43W06C-55-XR** 180514 186493*	**XMN44F06C-55** 180502 186481*	**XMN44F06C-55-XMV** 180500 186557*	**XMN44W06C-55** 180511 186490*	**XM2N43F06C-55** 180505 186484*	**XM2N43F06C-55-XMV** 180507 186486*	-	-
800	-	-	**XMN4F08C-55** 180504 186483*	**XMN44F08C-55-XMV** 180503 186482*	**XMN43W06C-55-XR** 180514 186493*	-	-	**XM2N43W08C-55** 180517 186496*	**XM2N43W08C-55-XR** 180519 186498*
1000	-	-	-	-	-	-	-	-	-

Key to front cover NZM4 IP31:

XMN43F06C-XR

- Type
- Size of c. b.
- Number of poles
- Mounting version
  - F = fixed
  - W = Withdrawable
- Width of section
- Cover
- Combination options
  - XR = Remote operation
  - XMV = Mechanical lock

Key to front cover NZM4 IP55:

XMN43F06C-55-XR

- Type
- Size of c. b.
- Number of poles
- Mounting version
  - F = fixed
  - W = Withdrawable
- Width of section
- Cover
- Degree of protection IP55
- Combination options
  - XR = Remote operation
  - XMV = Mechanical lock

Note * Finish in special RAL colour

Front cover NZM4 Form 4 (continued)



Section width mm	Front cover 2x NZM4 4-pole fixed/remote operation IP42/IP55 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 4-pole Fixed installation with mechanical lock IP42/IP55 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 4-pole withdrawable IP42/IP55 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 4-pole withdrawable with remote operation IP42/IP55 Article No. per unit unit = 1 pc.	Front cover NZM4 closed without cut-out IP42/IP55 Article No. per unit unit = 1 pc.	Front cover 2x NZM4 closed without cut-out IP42/IP55 Article No. per unit unit = 1 pc.
425	-	-	-	-	**XMC0604** 102945 122417*	-
600	-	-	-	-	**XMC0606** 102946 122418*	**XMC060602** 107987 122560*
800	**XM2N44F08C-55** 180506 186485*	**XM2N44F08C-55-XMV** 180508 186487*	-	-	**XMC0608** 102947 122419*	**XMC060802** 107988 122561*
1000	-	-	**XM2N44W10C-55** 180518 186497*	**XM2N44W10C-55-XR** 180520 186499*	**XMC0610** 102948 122420*	-

Key to front cover NZM4 IP31:

XMN43F06C-XR

- Type
- Size of c. b.
- Number of poles
- Mounting version
  - F = fixed
  - W = Withdrawable
- Width of section
- Cover
- Combination options
  - XR = Remote operation
  - XMV = Mechanical lock

Key to front cover NZM4 IP55:

XMN43F06C-55-XR

- Type
- Size of c. b.
- Number of poles
- Mounting version
  - F = fixed
  - W = Withdrawable
- Width of section
- Cover
- Degree of protection IP55
- Combination options
  - XR = Remote operation
  - XMV = Mechanical lock

Note * Finish in special RAL colour

Notizen

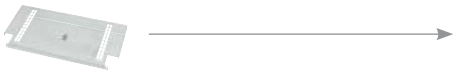
Table of Contents

Accessories for XP Sections

• Accessories for incoming supplies/outgoers ..... Page xx
• Snap-on covers ..... Page xx

Partitions NZM4 Form 2

wa_vt71313



wa_vt69113



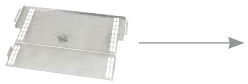
wa_vt71313



Section width mm	Partition connection area/main busbar area (only NZM) Section depth 600mm Form 2 Article No. per unit unit = 1 pc.	Partition connection area/main busbar area (only NZM) Section depth 800mm Form 2 Article No. per unit unit = 1 pc.	Partition switchgear area/busbar area (mounting plate) Form 2/4 Article No. per unit unit = 1 pc.	Partition extension for 5000 A systems busbar area/main busbar area (suitable for IZM and NZM) Article No. per unit unit = 1 pc.
425	**XPNBCT0404** 285502	**XPNBCB0406** 285523	**XPBMB0604** 284107	**XPIBCB-H-04019** 150514
600	**XPNBCT0604** 284104	**XPNBCB0606** 285522	**XPBMB0606** 284108	**XPIBCB-H-06019** 150515
800	**XPNBCT0804** 135258	**XPNBCB0806** 135257	**XPBMB0608** 284108	**XPIBCB-H-08019** 150516

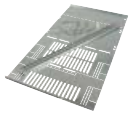
Partitions NZM4 Form 4

wa_vt70913



Section width mm	Poles	Installation type F = Fixed E = Withdrawable	Remote operation	Fixed installation with mechanical lock	Fixed installation with rotary handle	Fixed installation with door coupling handle	Partition busbar area/connection area (only NZM), section depth 600 mm for EVEN coupling section Article No. per unit unit = 1 pc.	Partition busbar area/connection area (only NZM), section depth 800 mm for EVEN coupling section Article No. per unit unit = 1 pc.
425	NZM4-3P	F					**XPNBCB0402** 289174	**XPNBCB0404** 289176
	NZM4-3P	F	x				**XPNBCB0402** 289174	**XPNBCB0404** 289176
	NZM4-3P	F		x			**XPNBCB0402** 289174	**XPNBCB0404** 289176
	NZM4-3P	F			x		**XPNBCB0402** 289174	**XPNBCB0404** 289176
	NZM4-3P	F				x	**XPNBCB0402** 289174	**XPNBCB0404** 289176
	NZM4-3P	E					**XPNBCB0402** 289174	**XPNBCB0404** 289176
	NZM4-3P	E	x				**XPNBCB0402** 289174	**XPNBCB0404** 289176
600	NZM4-3P	F					**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-4P, 3P+N	F					**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-3P	F	x				**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-4P, 3P+N	F	x				**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-3P	F		x			**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-4P, 3P+N	F		x			**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-3P	F			x		**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-4P, 3P+N	F			x		**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-4P, 3P+N	F				x	**XPNBCB0602** 289175	**XPNBCB0604** 289177

wa_vt72013



Partition between feeder copper and connection copper on main busbar with NZM
Form 4 only for EVEN

Article No.
per unit
unit = 1 pc.

XPNBCB-E-04 121448
XPNBCB-E-04 121448
XPNBCB-E-04 121448
XPNBCB-E-04 121448
XPNBCB-E-04 121448
XPNBCB-E-04 121448
XPNBCB-E-04 121448
XPNBCB-E-06 121449
XPNBCB-E-06 121449
XPNBCB-E-06 121449
XPNBCB-E-06 121449
XPNBCB-E-06 121449
XPNBCB-E-06 121449
XPNBCB-E-06 121449
XPNBCB-E-06 121449
XPNBCB-E-06 121449

wa_vt34313

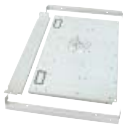


Partition
switchgear area/busbar area (mounting plate)
Form 2/4

Article No.
per unit
unit = 1 pc.

XPBMB0604 284107
XPBMB0604 284107
XPBMB0604 284107
XPBMB0604 284107
XPBMB0604 284107
XPBMB0604 284107
XPBMB0604 284107
XPBMB0606 284108
XPBMB0606 284108
XPBMB0606 284108
XPBMB0606 284108
XPBMB0606 284108
XPBMB0606 284108
XPBMB0606 284108
XPBMB0606 284108
XPBMB0606 284108

wa_vt62813

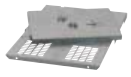


Mounting plate
partition
switchgear/main busbar
swivel-mounted

Article No.
per unit
unit = 1 pc.

XPBMB0604-ROT 112312
XPBMB0604-ROT 112312
XPBMB0604-ROT 112312
XPBMB0604-ROT 112312
XPBMB0604-ROT 112312
XPBMB0604-ROT 112312
XPBMB0604-ROT 112312
XPBMB0606-ROT 112313
XPBMB0606-ROT 112313
XPBMB0606-ROT 112313
XPBMB0606-ROT 112313
XPBMB0606-ROT 112313
XPBMB0606-ROT 112313
XPBMB0606-ROT 112313
XPBMB0606-ROT 112313
XPBMB0606-ROT 112313

vt17817



Mounting plate
for bus duct connection

Article No.
per unit
unit = 1 pc.

XPBM0604-BUS 188291
XPBM0604-BUS 188291
XPBM0604-BUS 188291
XPBM0604-BUS 188291
XPBM0604-BUS 188291
XPBM0604-BUS 188291
XPBM0604-BUS 188291
XPBM0606-BUS 188292
XPBM0606-BUS 188292
XPBM0606-BUS 188292
XPBM0606-BUS 188292
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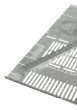
XPBM0606-BUS 188292
XPBM0606-BUS 188292
XPBM0606-BUS 188292

wa_vt72013



vt36615



Partition
switchgear
top/bottom

Article No.
per unit
unit = 1 pc.

XPN4F-MCB04 178597
XPN4F-R-MCB04 178600
XPN4F-DV-MCB04 178599
XPN4F-D-MCB04 178598
XPN4F-R-MCB04 178600
XPN4W-MCB04 178601
XPN4W-R-MCB04 178602
XPN4F-MCB06 178603
-
XPN4F-R-MCB06 178606
-
XPN4F-DV-MCB06 178605
-
XPN4F-D-MCB06 178604
-
XPN4F-R-MCB06 178606

vt39715



Partition
connection area
D600

Article No.
per unit
unit = 1 pc.

XPNBCB-2-0406 178630
XPNBCB-2-0406 178630
XPNBCB-2-0406 178630
XPNBCB-2-0406 178630
XPNBCB-2-0406 178630
XPNW-R-BCB-2-0406 178629
XPNW-R-BCB-2-0406 178629
XPNBCB-2-0606 178634
XPNBCB-2-0606 178634
XPNBCB-2-0606 178634
XPNBCB-2-0606 178634
XPNBCB-2-0606 178634
XPNBCB-2-0606 178634
XPNBCB-2-0606 178634
XPNBCB-2-0606 178634
XPNBCB-2-0606 178634

vt39815

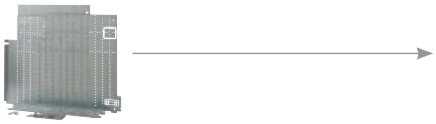


Partition
connection area
D800

Article No.
per unit
unit = 1 pc.

XPNBCB-2-0408 178632
XPNBCB-2-0408 178632
XPNBCB-2-0408 178632
XPNBCB-2-0408 178632
XPNBCB-2-0408 178632
XPNBCB-2-0408 178632
XPNBCB-2-0408 178632
XPNBCB-2-0608 178636
XPNBCB-2-0608 178636
XPNBCB-2-0608 178636
XPNBCB-2-0608 178636
XPNBCB-2-0608 178636
XPNBCB-2-0608 178636
XPNBCB-2-0608 178636
XPNBCB-2-0608 178636
XPNBCB-2-0608 178636

vt35315



Central universal mounting plate
incoming area
D600

Article No.
per unit
unit = 1 pc.

-
-
-
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-
-
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-
-
-
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-
-
-

Central universal mounting plate
incoming area
D800

Article No.
per unit
unit = 1 pc.

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-
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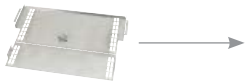
-

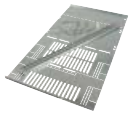
Partitions NZM4 Form 4 (continued)

wa_vt70913



Section width mm	Poles	Installation type F = Fixed E = Withdrawable	Remote operation	Fixed installation with mechanical lock	Fixed installation with rotary handle	Fixed installation with door coupling handle	Partition busbar area/connection area (only NZM), section depth 600 mm for EVEN coupling section Article No. per unit unit = 1 pc.	Partition busbar area/connection area (only NZM), section depth 800 mm for EVEN coupling section Article No. per unit unit = 1 pc.
600	NZM4-3P	E					**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-4P, 3P+N	E					**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-3P	E	x				**XPNBCB0602** 289175	**XPNBCB0604** 289177
	NZM4-4P, 3P+N	E	x				**XPNBCB0602** 289175	**XPNBCB0604** 289177
	2xNZM4-3P	F					**XPNBCB0602** 289175	**XPNBCB0604** 289177
	2xNZM4-3P	F	x				**XPNBCB0602** 289175	**XPNBCB0604** 289177
	2xNZM4-3P	F		x			**XPNBCB0602** 289175	**XPNBCB0604** 289177
	2xNZM4-3P	F			x		**XPNBCB0602** 289175	**XPNBCB0604** 289177
	2xNZM4-3P	F				x	**XPNBCB0602** 289175	**XPNBCB0604** 289177
800	NZM4-4P, 3P+N	F					**XPNBCB0802** 118735	**XPNBCB0804** 118736
	NZM4-4P, 3P+N	F	x				**XPNBCB0802** 118735	**XPNBCB0804** 118736
	NZM4-4P, 3P+N	F		x			**XPNBCB0802** 118735	**XPNBCB0804** 118736
	NZM4-4P, 3P+N	F			x		**XPNBCB0802** 118735	**XPNBCB0804** 118736
	NZM4-4P, 3P+N	F				x	**XPNBCB0802** 118735	**XPNBCB0804** 118736
	NZM4-4P, 3P+N	E					**XPNBCB0802** 118735	**XPNBCB0804** 118736
	NZM4-4P, 3P+N	E	x				**XPNBCB0802** 118735	**XPNBCB0804** 118736

wa_vt72013



Partition between feeder copper and connection copper on main busbar with NZM
Form 4 only for EVEN

Article No.
per unit
unit = 1 pc.

XPNBCB-E-06 121449
XPNBCB-E-06 121449
XPNBCB-E-06 121449
XPNBCB-E-06 121449
XPNBCB-E-06 121449
XPNBCB-E-06 121449
XPNBCB-E-06 121449
XPNBCB-E-06 121449
XPNBCB-E-06 121449
XPNBCB-E-08 121450
XPNBCB-E-08 121450
XPNBCB-E-08 121450
XPNBCB-E-08 121450
XPNBCB-E-08 121450
XPNBCB-E-08 121450
XPNBCB-E-08 121450

wa_vt34313

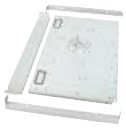


Partition
switchgear area/busbar area (mounting plate)
Form 2/4

Article No.
per unit
unit = 1 pc.

XPBMB0606 284108
XPBMB0606 284108
XPBMB0606 284108
XPBMB0606 284108
XPBMB0606 284108
XPBMB0606 284108
XPBMB0606 284108
XPBMB0606 284108
XPBMB0606 284108
XPBMB0608 284109
XPBMB0608 284109
XPBMB0608 284109
XPBMB0608 284109
XPBMB0608 284109
XPBMB0608 284109
XPBMB0608 284109

wa_vt62813

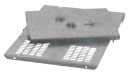


Mounting plate
partition
switchgear/main busbar
swivel-mounted

Article No.
per unit
unit = 1 pc.

XPBMB0606-ROT 112313
XPBMB0606-ROT 112313
XPBMB0606-ROT 112313
XPBMB0606-ROT 112313
XPBMB0606-ROT 112313
XPBMB0606-ROT 112313
XPBMB0606-ROT 112313
XPBMB0606-ROT 112313
XPBMB0606-ROT 112313
XPBMB0608-ROT 112314
XPBMB0608-ROT 112314
XPBMB0608-ROT 112314
XPBMB0608-ROT 112314
XPBMB0608-ROT 112314
XPBMB0608-ROT 112314
XPBMB0608-ROT 112314

vt17817



Mounting plate
for bus duct connection

Article No.
per unit
unit = 1 pc.

XPBM0606-BUS 188292
XPBM0606-BUS 188292
XPBM0606-BUS 188292
XPBM0606-BUS 188292
XPBM0606-BUS 188292
XPBM0606-BUS 188292
XPBM0606-BUS 188292
XPBM0606-BUS 188292
XPBM0606-BUS 188292
XPBM0608-BUS 188293
XPBM0608-BUS 188293
XPBM0608-BUS 188293
XPBM0608-BUS 188293
XPBM0608-BUS 188293
XPBM0608-BUS 188293
XPBM0608-BUS 188293

vt36615



Partition
switchgear
top/bottom

Article No.
per unit
unit = 1 pc.

XPN4W-MCB06 178607
-
XPN4W-R-MCB06 178645
-
XP2N4F-MCB06 178610
XP2N4F-R-MCB06 178613
XP2N4F-DV-MCB06 178612
XP2N4F-D-MCB06 178611
XP2N4F-R-MCB06 178613
XPN4F-MCB08 178646
XPN4F-R-MCB08 178649
XPN4F-DV-MCB08 178648
XPN4F-D-MCB08 178647
XPN4F-R-MCB08 178649
XPN4W-MCB08 178608
XPN4W-R-MCB08 178609

vt39715



Partition
connection area
D600

Article No.
per unit
unit = 1 pc.

XPNW-R-BCB-2-0606 178633
XPNW-R-BCB-2-0606 178633
XPNW-R-BCB-2-0606 178633
XPNW-R-BCB-2-0606 178633
XPNBCB-2-0606 178634
XPNBCB-2-0606 178634
XPNBCB-2-0606 178634
XPNBCB-2-0606 178634
XPNBCB-2-0606 178634
XPNBCB-2-0806 178638
XPNBCB-2-0806 178638
XPNBCB-2-0806 178638
XPNBCB-2-0806 178638
XPNBCB-2-0806 178638
XPNW-R-BCB-2-0808 178639
XPNW-R-BCB-2-0808 178639

vt39815

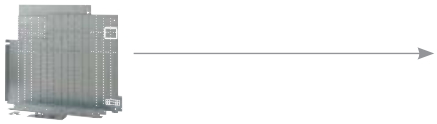


Partition
connection area
D800

Article No.
per unit
unit = 1 pc.

XPNW-R-BCB-2-0608 178635
XPNW-R-BCB-2-0608 178635
XPNW-R-BCB-2-0608 178635
XPNW-R-BCB-2-0608 178635
XPNBCB-2-0608 178636
XPNBCB-2-0608 178636
XPNBCB-2-0608 178636
XPNBCB-2-0608 178636
XPNBCB-2-0608 178636
XPNBCB-2-0808 178640
XPNBCB-2-0808 178640
XPNBCB-2-0808 178640
XPNBCB-2-0808 178640
XPNBCB-2-0808 178640
XPNW-R-BCB-2-0808 178639
XPNW-R-BCB-2-0808 178639

vt35315



Central universal mounting plate
incoming area
D600

Article No.
per unit
unit = 1 pc.

-
-
-
-
XPNCCB06 178625
XPNCCB06 178625
XPNCCB06 178625
XPNCCB06 178625
XPNCCB06 178625
-
-
-
-
-
-
-

Central universal mounting plate
incoming area
D800

Article No.
per unit
unit = 1 pc.

-
-
-
-
XPNCCB08 178626
XPNCCB08 178626
XPNCCB08 178626
XPNCCB08 178626
XPNCCB08 178626
-
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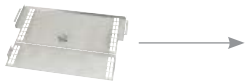
-

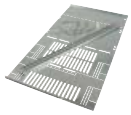
Partitions NZM4 Form 4 (continued)

wa_vt70913



Section width mm	Poles	Installation type F = Fixed E = Withdrawable	Remote operation	Fixed installation with mechanical lock	Fixed installation with rotary handle	Fixed installation with door coupling handle	Partition busbar area/connection area (only NZM), section depth 600 mm for EVEN coupling section Article No. per unit unit = 1 pc.	Partition busbar area/connection area (only NZM), section depth 800 mm for EVEN coupling section Article No. per unit unit = 1 pc.
800	2xNZM4-4P, 3P+N	F					**XPNBCB0802** 118735	**XPNBCB0804** 118736
	2xNZM4-4P, 3P+N	F	x				**XPNBCB0802** 118735	**XPNBCB0804** 118736
	2xNZM4-4P, 3P+N	F		x			**XPNBCB0802** 118735	**XPNBCB0804** 118736
	2xNZM4-4P, 3P+N	F			x		**XPNBCB0802** 118735	**XPNBCB0804** 118736
	2xNZM4-4P, 3P+N	F				x	**XPNBCB0802** 118735	**XPNBCB0804** 118736
	2xNZM4-3P	E					**XPNBCB0802** 118735	**XPNBCB0804** 118736
	2xNZM4-3P	E	x				**XPNBCB0802** 118735	**XPNBCB0804** 118736
1000	2xNZM4-4P, 3P+N	E					**XPNBCB1002** 178623	**XPNBCB1004** 178624
	2xNZM4-4P, 3P+N	E	x				**XPNBCB1002** 178623	**XPNBCB1004** 178624

wa_vt72013



Partition between feeder copper and connection copper on main busbar with NZM
Form 4 only for EVEN

Article No.
per unit
unit = 1 pc.

XPNBCB-E-08 121450
XPNBCB-E-08 121450
XPNBCB-E-08 121450
XPNBCB-E-08 121450
XPNBCB-E-08 121450
XPNBCB-E-08 121450
XPNBCB-E-08 121450
XPNBCB-E-10 121451
XPNBCB-E-10 121451

wa_vt34313

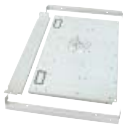


Partition
switchgear area/busbar area (mounting plate)
Form 2/4

Article No.
per unit
unit = 1 pc.

XPBMB0608 284109
XPBMB0608 284109
XPBMB0608 284109
XPBMB0608 284109
XPBMB0608 284109
XPBMB0608 284109
XPBMB0608 284109
XPBMB0610 102949
XPBMB0610 102949

wa_vt62813

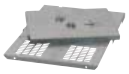


Mounting plate
partition
switchgear/main busbar
swivel-mounted

Article No.
per unit
unit = 1 pc.

XPBMB0608-ROT 112314
XPBMB0608-ROT 112314
XPBMB0608-ROT 112314
XPBMB0608-ROT 112314
XPBMB0608-ROT 112314
XPBMB0608-ROT 112314
XPBMB0608-ROT 112314
XPBMB0610-ROT 112315
XPBMB0610-ROT 112315

vt17817



Mounting plate
for bus duct connection

Article No.
per unit
unit = 1 pc.

XPBM0608-BUS 188293
XPBM0608-BUS 188293
XPBM0608-BUS 188293
XPBM0608-BUS 188293
XPBM0608-BUS 188293
XPBM0608-BUS 188293
XPBM0608-BUS 188293
XPBM0610-BUS 188294
XPBM0610-BUS 188294

vt36615



Partition
switchgear
top/bottom

Article No.
per unit
unit = 1 pc.

XP2N4F-MCB08 178614
XP2N4F-R-MCB08 178617
XP2N4F-DV-MCB08 178616
XP2N4F-D-MCB08 178615
XP2N4F-R-MCB08 178617
XP2N4W-MCB08 178618
XP2N4W-R-MCB08 178619
XP2N4W-MCB10 178620
XP2N4W-R-MCB10 178621

vt39715



Partition
connection area
D600

Article No.
per unit
unit = 1 pc.

XPNBCB-2-0806 178638
XPNBCB-2-0806 178638
XPNBCB-2-0806 178638
XPNBCB-2-0806 178638
XPNBCB-2-0806 178638
XPNW-R-BCB-2-0808 178639
XPNW-R-BCB-2-0808 178639
XPNW-R-BCB-2-1006 178641
XPNW-R-BCB-2-1006 178641

vt39815

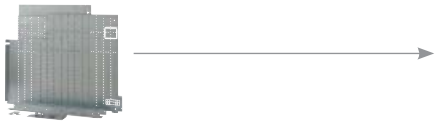


Partition
connection area
D800

Article No.
per unit
unit = 1 pc.

XPNBCB-2-0808 178640
XPNBCB-2-0808 178640
XPNBCB-2-0808 178640
XPNBCB-2-0808 178640
XPNBCB-2-0808 178640
XPNW-R-BCB-2-0808 178639
XPNW-R-BCB-2-0808 178639
XPNW-R-BCB-2-1008 178643
XPNW-R-BCB-2-1008 178643

vt35315



Central universal mounting plate
incoming area
D600

Article No.
per unit
unit = 1 pc.

XPNCCB06 178625
XPNCCB06 178625
XPNCCB06 178625
XPNCCB06 178625
XPNCCB06 178625
XPNW-R-CCB06 178627
XPNW-R-CCB06 178627
XPNW-R-CCB06 178627
XPNW-R-CCB06 178627

Central universal mounting plate
incoming area
D800

Article No.
per unit
unit = 1 pc.

XPNCCB08 178626
XPNCCB08 178626
XPNCCB08 178626
XPNCCB08 178626
XPNCCB08 178626
XPNW-R-CCB08 178628
XPNW-R-CCB08 178628
XPNW-R-CCB08 178628
XPNW-R-CCB08 178628

Accessories for incoming supplies/outgoers, various partitions for IZM

wa_vt71313



Section width mm	Partition busbar area/connection area (only IZM13) Section depth 600 mm Form 2/4 Article No. per unit	Partition busbar area/connection area (only IZM13) Section depth 800 mm Form 2/4 Article No. per unit
425	**XPBCB0402** 284099	**XPBCB0404** 284100
600	**XPBCB0602** 284101	**XPBCB0604** 284102
800	**XPBCB0802** 284103	**XPBCB0804** 284104
1000	-	-
1200	**XPBCB1202** 284105	**XPBCB1204** 284106

Accessories for incoming supplies/outgoers, various partitions for IZM (continued)

wa_vt71313



Section width mm	Partition busbar area/ connection area (for IZMX16) Section depth 600 mm Form 2/4 Article No. per unit	Partition busbar area/con- nection area (for IZMX16) Section depth 800 mm Form 2/4 Article No. per unit	Partition busbar area/ connection area (for 2x IZMX16) Section depth 600 mm Form 2/4 Article No. per unit	Partition busbar area/con- nection area (for 2x IZMX16) Section depth 800 mm Form 2/4 Article No. per unit	Partition busbar area/con- nection area (for IZMX40) Section depth 600 mm Form 2/4 Article No. per unit	Partition busbar area/con- nection area (for IZMX40) Section depth 800 mm Form 2/4 Article No. per unit	Partition busbar area/con- nection area for IZM26) Section depth 600 mm Form 2/4 Article No. per unit	Partition busbar area/con- nection area for IZM26) Section depth 800 mm Form 2/4 Article No. per unit
400	**XPIXBCB-H-0402** 133087	**XPIXBCB-H-0404** 133088	-	-	-	-	-	-
600	**XPIXBCB-H-0602** 133089	**XPIXBCB-H-0604** 133090	-	-	**XPIX40BCB-H-0602** 166226	**XPIX40BCB-H0604** 166223	**XPIBCB-H-0602** 133091	**XPIBCB-H-0604** 133092
800	-	-	**XPIXBCB-H-0802** 174563	**XPIXBCB-H-0804** 174565	**XPIX40BCB-H-0802** 166227	**XPIX40BCB-H0804** 166224	**XPIBCB-H-0802** 133093	**XPIBCB-H-0804** 133094
1000	-	-	**XPIXBCB-H-1002** 174564	**XPIXBCB-H-1004** 174566	-	**XPIX40BCB-H1004** 166225	-	**XPIBCB-H-1004** 133095
1100	-	-	-	-	-	-	-	**XPIBCB-H-1104** 133096
1200	-	-	-	-	-	-	-	-
1350	-	-	-	-	-	-	-	**XPIBCB-H-13504** 133097

Only in mother version:

Accessories for incoming supplies/outgoers, various partitions for IZM (continued)

wa_vt70113 VT05611



Section width mm	Partition extension for 5000 A application busbar area/ main busbar area (suitable for IZM and NZM) Article No. per unit	Partition busbar area/switchgear area (IZM13) Form 2/4 Article No. per unit	Partition busbar area/switchgear area (for IZMX16) Form 2/4 withdrawable Article No. per unit	Partition busbar area/switchgear area (for IZMX16) Form 2/4 Fixed Article No. per unit	Partition busbar area/switchgear area (for IZMX40) Form 2/4 withdrawable Article No. per unit	Partition busbar area/switchgear area (for IZMX40) Form 2/4 Fixed Article No. per unit
400	**XPIBCB-H-04019** 150514	**XPIBMCB0604** 284151	**XPIXMCB0604** 135261	**XPIXFBMCB0604** 151674	-	-
600	**XPIBCB-H-06019** 150515	**XPIBMCB0606** 284152	**XPIXMCB0606** 135262	**XPIXFBMCB0606** 151675	**XPIX40WBMCB0606** 166220	**XPIX40FBMCB0606** 164349
800	**XPIBCB-H-08019** 150516	**XPIBMCB0608** 284153	-	-	**XPIX40WBMCB0608** 166222	**XPIX40FBMCB0608** 166221
1000	**XPIBCB-H-10019** 150518	-	-	-	**XPIX40WBMCB0610** 164348	**XPIX40FBMCB0610** 164347
1100	**XPIBCB-H-11019** 150519	-	-		-	-
1200	**XPIBCB-H-12019** 150520	**XPIBMCB0612** 284154	-	-	-	-
1350	**XPIBCB-H-135019** 150521	-	-	-	**XPI26BMCB06135** 133086	-

Accessories for incoming supplies/outgoers, various partitions for IZM (continued)

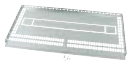
wa_vt70113



Section width mm	Partition busbar area/switchgear area (for IZM26) Form 2/4 withdrawable Article No. per unit	Partition busbar area/switchgear area (for IZM26) Form 2/4 Fixed Article No. per unit
400	-	-
600	**XPI26BMBCB0606** 135259	**XPI26FBMCB0606** 149183
800	**XPI26BMBCB0608** 135260	**XPI26FBMCB0608** 149184
1000	**XPI26BMCB0610** 133084	**XPI26FBMCB0610** 149185
1100	**XPI26BMCB0611** 133085	**XPI26FBMCB0611** 149186
1200	-	-
1350	**XPI26BMCB06135** 133086	-

Accessories for incoming supplies/outgoers, various partitions for IZM (continued)

wa_vt62413



wa_vt71213



Section width mm	Partition switchgear area/ switchgear area Form 4 Article No. per unit	Partition switchgear area/switchgear area (for IZMX16) Form 4 Article No. per unit	Partition switchgear area/switchgear area (for IZMX40), with application EVEN/OPPO/fixed + withdrawable, in section depth of 800 mm + section depth 600 mm in OPPO, Form 4 Article No. per unit	Partition switchgear area/switchgear area, (for IZMX40) with application EVEN/ withdrawable only with section depth 600 mm Article No. per unit	Partition connection area/ only with section depth (only NZM) Section depth 400 mm Form 2 Article No. per unit	Partition connection area/ busbar area (only NZM) Section depth 600 mm Form 2 Article No. per unit	Partition connection area/ busbar area (only NZM) Section depth 800 mm Form 2 Article No. per unit
400	**XPMMB0404** 284163	**XPMMB0402** 135263	-	-	**XPNBCT0402** 285501	**XPNBCT0404** 285502	**XPNBCB0406** 285523
600	**XPMMB0604** 284164	**XPMMB0602** 135264	**XPMMB0603** 166239	**XPMMB0602** 153364	**XPNBCT0602** 285503	**XPNBCT0604** 285504	**XPNBCB0606** 285522
800	**XPMMB0804** 284165	-	**XPMMB0803** 166240	**XPMMB0802** 167314	-	**XPNBCT0804** 135258	**XPNBCB0806** 135257
1000	**XPMMB1004** 133081	-	**XPMMBA10** 166698	-	-	-	-
1100	**XPMMB1104** 133082	-	-	-	-	-	-
1200	**XPMMB1204** 284166	-	-	-	-	-	-
1350	**XPMMB13504** 133083	-	-	-	-	-	-

Accessories for incoming supplies/outgoers, various partitions for IZM (continued)



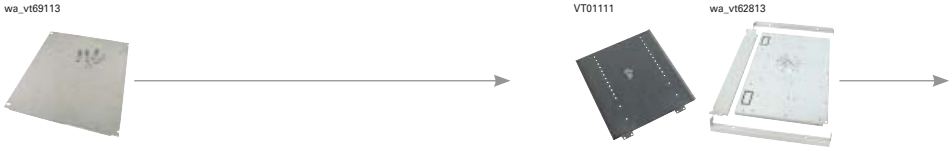






Section width mm	Additional partition between mounting plate and main busbar to get optimal ventilation/cooling (chimney effect) with 4000A XP sections only	Partition between incoming supply copper and connection copper on main busbar with IZM13 Form 4	Partition between incoming supply copper and connection copper on main busbar with IZMX16 Form 4	Partition between incoming supply copper and connection copper on main busbar with IZM26 Form 4	Partition connection area Form 4	Partition connection area for 2x IZMX16 Form 4	Partition switchgear area/ busbar area (mounting plate) Form 2/4
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
400	-	**XPIBCB-E-04** 126001	**XPIXBCB-E-04** 151676	-	**XPC0604** 284115	-	**XPBMB0604** 284107
600	-	**XPIBCB-E-06** 126002	**XPIXBCB-E-06** 151677	**XPI26BCB-E-06** 151678	**XPC0606** 284116	-	**XPBMB0606** 284108
800	-	**XPIBCB-E-08** 126003	-	**XPI26BCB-E-08** 151679	**XPC0608** 284117	**XPC060802** 174569	**XPBMB0608** 284109
1000	**XPPBMV10** 166741	**XPIBCB-E-10** 126004	-	**XPI26BCB-E-10** 151680	**XPC0610** 133078	**XPC061002** 174570	**XPBMB0610** 102949
1100	-	-	-	**XPI26BCB-E-11** 151681	**XPC0611** 133079	-	-
1200	-	**XPIBCB-E-12** 126005	-	-	**XPC0612** 284118	-	**XPBMB0612** 284110
1350	-	-	-	**XPI26BCB-E-135** 151682	**XPC06135** 133080	-	-

Accessories for incoming supplies/outgoers, various partitions for IZM (continued)

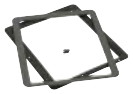


Section width mm	Mounting plate for bus duct connection Article No. per unit	Partition busbar area/ switchgear area mounting plates for 2x IZMX16 Form 2/4 Article No. per unit	Partition switchgear area/ busbar area (mounting plate H = 350 mm) Article No. per unit	Partition switchgear area/ busbar area mounting plates separated 2x 400 mm For Section width 800 mm H = 350 mm Article No. per unit	Partition switchgear area/busbar area (mounting plate) Form 2/4 suitable for IZM26 Article No. per unit	Separation panel to be able to split the switchgear area above the switchgear suitable for XPBMB03508-S) Article No. per unit	Schwenkbare Separation panel switchgear area/ busbar area suitable for NZM3+4 IZM13 Article No. per unit	Schwenkbare Separation panel switchgear area/ busbar area suitable for IZM26 Article No. per unit
400	**XPBM0604-BUS** 188291	- 	**XPBMB03504** 166693	- 	- 	- 	**XPBMB0604-ROT** 112312	-
600	**XPBM0606-BUS** 188292	- 	**XPBMB03506** 166695	- 	**XPBMB0506** 133066	- 	**XPBMB0606-ROT** 112313	**XPBMB0506-ROT** 149189
800	**XPBM0608-BUS** 188293	**XPBMB0608-S** 174571	**XPBMB03508** 132922	**XPBMB03508-S** 132923	**XPBMB0508** 133067	**XPBCV03504** 132924	**XPBMB0608-ROT** 112314	**XPBMB0508-ROT** 149190
1000	**XPBM0610-BUS** 188294	**XPBMB0610-S** 174572	- 	**XPBMB03510-S** 167567	**XPBMB0510** 133068	- 	**XPBMB0610-ROT** 112315	**XPBMB0510-ROT** 149191
1100	**XPBM0611-BUS** 188295	- 	- 	**XPBMB03511-S** 167568	**XPBMB0511** 133069	- 	- 	**XPBMB0511-ROT** 149192
1200	**XPBM0612-BUS** 188296	- 	- 	- 	- 	- 	**XPBMB0612-ROT** 112316	-
1350	**XPBM06135-BUS**- 188297	- 	- 	**XPBMB035135-S** 167569	**XPBMB05135** 133070	- 	- 	**XPBMB05135-ROT** 149193

Accessories for incoming supplies/outgoers

Door sealing frame

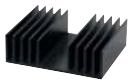
VT24209



Door sealing frame to cover the door cut-out for IZMX13	Door sealing frame to cover the door cut-out for IZMX16 Fixed	Door sealing frame to cover the door cut-out for IZMX16 withdrawable	Door sealing frame to cover the door cut-out for IZMX40 Fixed	Door sealing frame to cover the door cut-out for IZMX40 withdrawable	Door sealing frame to cover the door cut-out for IZM20/32/40/63
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
IZM-XRT 230730	**IZMX-DEG16-F** 124335	**IZMX-DEG16-W** 124390	**IZMX-DEG40-F** 156665	**IZMX-DEG40-W** 156666	**IZM-DEG** 122925

Cooling unit

VT00612



Cooling unit for IZMX40 1 K/W D = 100 mm
Article No. per unit
XACP1K100 167566

Accessories for incoming supplies/outgoers

Adapter frame

wa_vt57313



Adapter frame for IZMX16 suitable for protective cover no. 122926	Adapter frame for protective cover suitable for IZMX40 series/fixed + withdrawable design	Adapter frame for IZM26, suitable for protective cover no. 122926	Adapter frame for IZM13, for mounting the protective cover IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XMIX16-XDT 168119 168120*	**XMIX40-XDT** 166750	**XMI26-XDT** 151684 151685*	**XMI-XDT** 110220 122589*

Protective cover

wa_vt72713



Protective cover made of plexiglas for IP55 for IZM13 Fixed	Protective cover made of plexiglas for IP55 suitable for IZMX16 IZMX40 IZM63
Article No. per unit	Article No. per unit
IZM-XDT 230750	**IZM-DC** 122926

Note

* Finish in special RAL colour

. . . also for use in the Main Bus Bar Top (BXT) system

Snap-on covers







Section width mm	Snap-on cover without cut-out Article No. per unit	2x Snap-on cover without cut-out Article No. per unit	Bar for snap-on cover Article No. per unit
400	**XMC0604** 102945 122417*	-	**XSFD0604** 113991 122618*
600	**XMC0606** 102946 122418*	**XMC060602** 107987 122560*	**XSFD0606** 113992 122619*
800	**XMC0608** 102947 122419*	**XMC060802** 107988 122561*	**XSFD0608** 113993 122620*
850	-	-	**XSFD0685** 179386 179389*
1000	**XMC0610** 102948 122420*	-	**XSFD0610** 113994 122621*
1100	**XMC0611** 132993 133041*	-	**XSFD0611** 179387 179390*
1200	**XMC0612** 113990 122617*	-	**XSFD0612** 113995 122622*
1350	**XMC06135** 132994 133042*	-	**XSFD06135** 179388 179391*

Note

* Finish in special RAL colour

. . . also for use in the Main Bus Bar Top (BXT) system

Bar Supports/Connection Systems

• Main busbar supports ..... Page xx
• Individual components for busbar supports ..... Page xx
• Main busbars ..... Page xx
• Dropper bars ..... Page xx
• Shutter ..... Page xx
• Cable connection sytems, support connection sytems ..... Page xx
• Drill-free connection systems ..... Page xx
• Terminals ..... Page xx

Main busbar supports, rear-mounted

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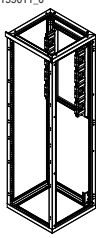
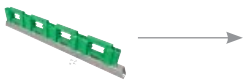


Features:
- 1600 – 4000 A
- TN-C, TN-C-S, TN-S, IT
- I_{cw} (1 s) up to 100 kA

wa_vt33413



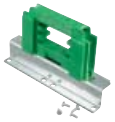
VT00512



VT27209



wa_vt08813

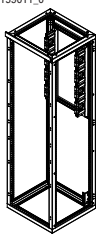


I_e A	Cross-section of main busbars L1, L2, L3, full N mm²	PE, PEN mm²	Min. section depth mm	Type of busbar support 3-pole L1, L2, L3 Article No. 1 set	4-pole L1, L2, L3, N Article No. 1 set	Type of earth-bar support for PEN front Article No. 1 set	Type of support PE or PEN Article No. 1 set	N Article No. 1 set
800	1 x 40 x 10	1 x 40 x 10	600	**XBSB163** 283864	**XBSB164** 283865	**XBSPF** 168118	**XBSP** 283872	**XBSN16** 284747
1250	1 x 60 x 10	1 x 60 x 10	600	**XBSB203** 283866	**XBSB204** 283867	**XBSPF** 168118	**XBSP** 283872	**XBSN20** 284748
1600	2 x 40 x 10	1 x 40 x 10	600	**XBSB163** 283864	**XBSB164** 283865	**XBSPF** 168118	**XBSP** 283872	**XBSN16** 284747
2000	2 x 60 x 10	1 x 60 x 10	600	**XBSB203** 283866	**XBSB204** 283867	**XBSPF** 168118	**XBSP** 283872	**XBSN20** 284748
2500	2 x 80 x 10	1 x 80 x 10	600	**XBSB253** 285515	**XBSB254** 285516	**XBSPF** 168118	**XBSP** 283872	**XBSN40** 284750
3200	3 x 80 x 10	2 x 60 x 10	600	**XBSB323** 283868	**XBSB324** 283869	**XBSPF** 168118	**XBSP** 283872	**XBSN40** 284750
4000	3 x 80 x 10	2 x 80 x 10	800	**XBSB403** 283870	**XBSB404** 283871	**XBSPF** 168118	**XBSP** 283872	**XBSN40** 284750
5000	2x (3 x 80 x 10)	2 x 80 x 10	1000	**XBSB403** 283870	**XBSB404** 283871	-	**XBSP** 283872	**XBSN40** 284750

. . . also for use in the Main Bus Bar Top (BXT) system

Main busbar supports, rear-mounted but in stainless steel finish

00159011_0



Features:
- 1600 – 4000 A
- TN-C, TN-C-S, TN-S, IT
- I_{cw} (1 s) up to 100 kA

wa_vt33413



I_e A	Cross-section of main busbars L1, L2, L3, full N mm²	PE, PEN mm²	Min. section depth mm	Type of busbar support 3-pole L1, L2, L3 Article No. 1 set	4-pole L1, L2, L3, N Article No. 1 set
800	1 x 40 x 10	1 x 40 x 10	600	**XBSB163-STS** 110268	**XBSB164-STS** 110269
1250	1 x 60 x 10	1 x 60 x 10	600	**XBSB203-STS** 110270	**XBSB204-STS** 110271
1600	2 x 40 x 10	1 x 40 x 10	600	**XBSB163-STS** 110268	**XBSB164-STS** 110269
2000	2 x 60 x 10	1 x 60 x 10	600	**XBSB203-STS** 110270	**XBSB204-STS** 110271
2500	2 x 80 x 10	1 x 80 x 10	600	**XBSB253-STS** 110272	**XBSB254-STS** 110273
3200	3 x 80 x 10	2 x 60 x 10	600	**XBSB323** 283868	**XBSB324** 283869
4000	3 x 80 x 10	2 x 80 x 10	800	**XBSB403** 283870	**XBSB404** 283871
5000	2x (3 x 80 x 10)	2 x 80 x 10	1000	**XBSB403** 283870	**XBSB404** 283871

Individual components for busbar supports, Bar Holders

vt06815



Bar holder
right

Article No.
per unit

XBSB-R
144593

vt06715



Bar holder
left

Article No.
per unit

XBSB-L
144594

vt22516



Bar holder
galvanised basis

Article No.
per unit

XBSB-B
144596

vt22416



Bar holder
VA-steel basis

Article No.
per unit

XBSB-B-STS
144595

vt06415



Bar holder
galvanised basis for N conductor

Article No.
per unit

XBSN-N
144597

Individual components for busbar supports, Spacer, End-bracket

VT25409



Plastic spacer
H = 20 mm

Article No.
per unit

XBSB-S
292313

Metal spacer 20 mm
for bus bar support with 80/10 copper between the isolators

Article No.
per unit

XBSB-DI20N
195595

Metal spacer 40 mm
for bus bar support with 60/10 copper betweet the isolators and as end bracket for all 3 pole supports (position next to N)

Article No.
per unit

XBSB-DI40N
195596

Metal spacer 60 mm
for bus bar support with 40/10 copper between the isolators

Article No.
per unit

XBSB-DI60N
195597

Metal end-bracket 20 mm
position is next to N conductor for all dimensions of copper (only for 4 pole supports)

Article No.
per unit

XBSB-EF20N
195599

Metal end-bracket 40 mm
position is opposite to N conductor for all dimensions of copper (3+4 pole supports)

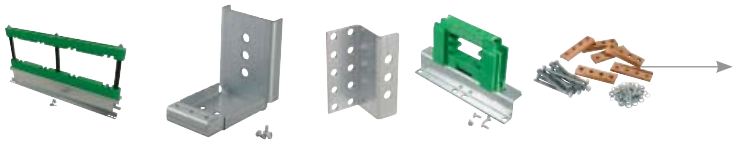
Article No.
per unit

XBSB-EF40N
195598

Main Busbars top-mounted, up to 3200 A, Fitting Kits

Features:
- 800 - 3200 A
- TN-C, TN-C-S, TN-S, TT
- I_{cw} (1 s) up to 65 kA

wa_vt66813 VT00512 VT27209 wa_vt08813 VT18509



I_e A	Cross-section of main busbars L1, L2, L3, full N mm²	PE, PEN mm²	Min. section depth mm	Type of busbar support 3-pole L1, L2, L3 or 4-pole L1, L2, L3, N Article No. per unit	Type of earth-bar support for PEN front Article No. per unit	Type of support PE or PEN Article No. per unit	N (separate) Article No. per unit	Type of busbar transport separation 3-pole L1, L2, L3 Article No. per unit	4-pole L1, L2, L3, N Article No. per unit
Phase distance of 60 mm									
800	2 x 20 x 10[1)]	1 x 20 x 10	400	**XBST08-1** 283873	**XBSPF** 168118	**XBSP** 283872	**XBSN16** 284747	**XBTT12-3P** 289080	**XBTT12-4P** 284778
1250	2 x 40 x 10	1 x 40 x 10	400	**XBST12-1** 283875	**XBSPF** 168118	**XBSP** 283872	**XBSN16** 284747	**XBTT12-3P** 289080	**XBTT12-4P** 284778
1600	2 x 60 x 10	1 x 60 x 10	400	**XBST16-1** 283877	**XBSPF** 168118	**XBSP** 283872	**XBSN20** 284748	**XBTT20-3P** 289081	**XBTT20-4P** 284779
Phase distance of 125 mm									
1250	2 x 40 x 10	1 x 40 x 10	600	**XBST12** 283874	**XBSPF** 168118	**XBSP** 283872	**XBSN16** 284747	**XBTT12-3P** 289080	**XBTT12-4P** 284778
1600	2 x 60 x 10	1 x 60 x 10	600	**XBST16** 283876	**XBSPF** 168118	**XBSP** 283872	**XBSN20** 284748	**XBTT20-3P** 289081	**XBTT20-4P** 284779
2000	2 x 80 x 10	1 x 80 x 10	600	**XBST20** 283878	**XBSPF** 168118	**XBSP** 283872	**XBSN40** 284750	**XBTT20-3P** 289081	**XBTT20-4P** 284779
2500	2 x 100 x 10	1 x 100 x 10	600	**XBST25** 283879	**XBSPF** 168118	**XBSP** 283872	**XBSN32** 284749	**XBTT32-3P** 289082	**XBTT32-4P** 284780
3200	2 x 120 x 10[2)]	1 x 120 x 10	600	**XBST32** 283880	**XBSPF** 168118	**XBSP** 283872	**XBSN40** 284750	**XBTT32-3P** 289082	**XBTT32-4P** 284780

End caps

wa_vt63613 wa_vt63513



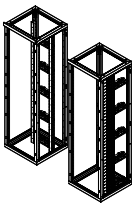
End caps for copper 40/60/80x10 WxD 1x30x10+2x30x10 Article No. per unit	End caps for copper 100/120x10 WxD 3x30x10 Article No. per unit
XBI-80 121453	**XBI-120** 121454

Note

[1)] N conductor separate with 1 x 40 x 10 mm
[2)] N conductor separate with 3 x 80 x 10 mm
. . . also for use in the Main Bus Bar Top (BXT) system

Dropper Bars up to 1600 A for Outgoing Sections, Fitting Kits

00123137_0



Features:
- 800 – 1600 A
- TN-C, TN-C-S, TN-S, IT, TT
- I_{cw} (1 s) up to 50 kA[1)]

wa_vt58813



wa_vt58913



Angle bracket for N and PEN in the cable connection area

wa_vt69913



wa_vt70013



I_e A	Cross-section of main busbars L1, L2, L3, full N mm²	PE, PEN mm²	Type of busbar support 3-pole L1, L2, L3, or 4-pole L1, L2, L3, N Article No. per unit	End support at the bottom Article No. per unit	Type of support for conductor in connection area[1)] PE or PEN Article No. per unit	N+PEN Article No. per unit
Dropper bars on the side, center-to-center phase distance 60 mm						
800	2 x 20 x 10	1 x 20 x 10	**XDSF08** 283888	**XDSF08E** 283889	**XDSFP** 283895	**XDSFN** 283894
1250	2 x 40 x 10	1 x 40 x 10	**XDSF12** 283890	**XDSF12E** 283891	**XDSFP** 283895	**XDSFN** 283894
1600	2 x 60 x 10	1 x 60 x 10	**XDSF16** 283892	**XDSF16E** 283893	**XDSFP** 283895	**XDSFN** 283894

Extension bracket

wa_vt59013



VT00412

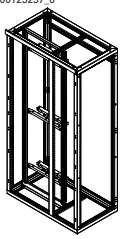


Module width mm	Type Extension bracket for busbar support XDSF... for rear-mounted dropper bars Article No. per unit	Type Extension bracket for busbar support (strong design for lowest position) Article No. per unit
425	**nicht benötigt**	-
600	**XDB06** 283885	**XADB06E** 166745

Note [1)] Also suitable for mounting cable ducts, auxiliary busbars etc.

Dropper Bars up to 1600 A for Outgoing Sections PIFT

00123257_0



Features:
- 800 – 1600 A
- TN-C, TN-C-S, TN-S, IT

VT18809



I_e A	Cross-section of main busbars L1, L2, L3, full N mm²	PE, PEN mm²	Type Fitting kit, dropper bars 3-pole L1, L2, L3 Article No. 1 set
Dropper bars, vertical, for horizontally installed PIFT fuse strips, center-to-center phase distance 185 mm, set includes 3 supports, one of them with end plate			
800	1 x 40 x 10	1 x 20 x 10	**XDSSV08** 283902
1000	1 x 60 x 10	1 x 40 x 10	**XDSSV10** 283903
1200	1 x 80 x 10	1 x 40 x 10	**XDSSV12** 283904
1600	1 x 100 x 10	1 x 60 x 10	**XDSSV16** 283905
Dropper bars, horizontal, for vertically installed PIFT fuse strips, center-to-center phase distance 185 mm, set includes 2 supports			
800	1 x 40 x 10 (N = 1 x 40 x 10)[1)]	1 x 20 x 10[1)]	**XDSSH08** 283896
1000	1 x 60 x 10 (N = 2 x 40 x 10)[1)]	1 x 40 x 10[1)]	**XDSSH10** 283897
1200	1 x 80 x 10 (N = 2 x 40 x 10)[1)]	1 x 40 x 10[1)]	**XDSSH12** 283898
1600	1 x 100 x 10 (N = 2 x 60 x 10)[1)]	1 x 60 x 10[1)]	**XDSSH16** 283899

Note For short-circuit strength see as of page xx

[1)] Where necessary, this is to be determined depending on the cross-section required for N or PE, PEN of the main busbar.

Dropper Bars for SL-I-3200 A extending over several sections

VT04510

Consisting of:
Distribution busbar supports



I_e A	Cross-section of main busbars L1, L2, L3, full N mm²	PE, PEN mm²	Type Article No. 1 set
1600	2 x 40 x 10	1 x 40 x 10	**XDSF16-SL-I** 143280
2000	2 x 60 x 10	1 x 60 x 10	**XDSF20-SL-I** 143281
2500	2 x 80 x 10	1 x 80 x 10	**XDSF25-SL-I** 143282
3200	2 x 100 x 10	1 x 100 x 10	**XDSF32-SL-I** 143283

Dropper Bar Sets up to 3200 A, Double Bar

vt80815

Set includes: Two mounting bracket for rail support, two rail support for single busbars up to 1600A, screw material.



I_e A	Cross-section of main busbars L1, L2, L3, full N mm²	PE, PEN mm²	Type Article No. 1 set
1600	2 x 40 x 10	1 x 40 x 10	**XDSF-16-SL-D** 180578
2000	2 x 60 x 10	1 x 60 x 10	**XDSF-20-SL-D** 180579
2500	2 x 80 x 10	1 x 80 x 10	**XDSF-25-SL-D** 180580
3200	2 x 100 x 10	1 x 100 x 10	**XDSF32-SL-D** 180581

Dropper Bar Set up to 1600 A, Single Bar

vt81315



I_e A	Cross-section of main busbars L1, L2, L3, full N mm²	PE, PEN mm²	Type Dropper bar set Article No. 1 set
max. 1600	1 x 40 x 10 up to max. 1 x 100 x 10	1 x 40 x 10 up to max. 1 x 100 x 10	**XDSLH** 182913

Busbar support for simple busbars up to 1600 A

vt81415

Incl.: 1 pc. Rail support and screw material



I_e A	Cross-section of main busbars L1, L2, L3, full N mm²	PE, PEN mm²	Type Busbar support for simple busbars Article No. 1 set
max. 1600	1 x 40 x 10 up to max. 1 x 100 x 10	1 x 40 x 10 up to max. 1 x 100 x 10	**XDSF16-SL-S** 180577

Shutter for PIFT

wa_vt81213



wa_vt69613



VT17709



U-Profile for shutter mounting L = 1850 mm	Shutter for plug-in module technology and SSL	Second part of shutter (necessary for SSL sections)
Article No. per unit unit = 2 pcs.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XASM-PI 129004	**XAS0606-PI** 122029	**XAS0606-S** 135256

Cable Connection Systems, Support Connection Systems up to 4000 A

VT18209



3-pole Units: Bar holder - 6 pcs. End plates - 6 pcs. Mounting brackets sheet metal - 6 pcs. incl. screws Article No. per unit unit = 1 set	4-pole Units: Bar holder - 8 pcs. End plates - 8 pcs. Mounting brackets sheet metal - 8 pcs. incl. screws Article No. per unit unit = 1 set
XCSIY308 283882	**XCSIY412** 283884

Arc Fault Partition for XP Sections

vt22716



- Suitable for 3 and 4 pole XP sections
- For incoming and outgoing lines of the circuit breaker
- Consisting of separation panels, fixing brackets, cross-struts and screws

Section depth mm	Type of breaker IZMX16 Article No. per unit unit = 1 set	Type of breaker IZMX40 Article No. per unit unit = 1 set	Type of breaker IZM63 Article No. per unit unit = 1 set
600	**XPIX16CC06** 171734	**XPIX40CC06** 171735	-
800	**XPIX16CC06** 171734	**XPIX40CC08** 171736	**XPI63CC10** 171737

Arc Fault Barrier - Main Busbar

vt23016



- To be fixed at the end of the main busbar (between the side panel and the main busbar). This is how to prevent the arc fault from flashing over to the side panel.
- Consisting of separation panel and screws

Arc Fault Barrier - Main Busbar Article No. per unit unit = 1 set
XBI-P 171738

Feedthrough of the Cu Current Bar

VT01011



- As a functions partition from section to section, suitable for all current ratings/busbar sizes (thanks to press-cuts prepared for breaking them off), 3 and 4 poles
- Consisting of a 4 pole separation panel, separation panel for PEN, angle profile and screws

Feedthrough of the Cu Current Bar

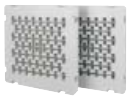
Article No. per unit unit = 1 set
XPBSS-5 151683

Drill-free connection system for XP sections

VT30009



wa_vt26913



wa_vt72813



wa_vt13113



wa_vt13013



wa_vt73413



	Bar support external for central incoming supply up to 4000 A Article No. per unit unit = 1 pair	Center bar support 4-pole KSX Article No. per unit unit = 1 pc.	Center bar support 3-pole KSX-3P-MID Article No. per unit unit = 1 pc.	Busbar 1250 A 2.4 m long tin-plated Double-T-profile Article No. per unit unit = 1 pc.	Busbar 1600 A 2.4 m long tin-plated Double-T-profile Article No. per unit unit = 1 pc.	Busbar 2500 A 2.4 m long tin-plated Dreifach-T-Profil Article No. per unit unit = 1 pc.
	KSX-34P-EXT 138268	**KSX-34P-MID** 138269	**KSX-3P-MID** 138360	**CU-BAR-500/T** 107166	**CU-BAR-720/T** 107167	**CU-BAR-1140/T** 107168

Connection terminals

wa_vt12313



Profile terminal terminal area 41x20-42 mm for double-T-profile Article No. per unit unit = 3 pcs.	Profile terminal terminal area 51x5-28 mm for double-T-profile Article No. per unit unit = 3 pcs.	Profile terminal terminal area 51x20-42 mm for double-T-profile Article No. per unit unit = 3 pcs.	Profile terminal terminal area 64x5-28 mm for double-T-profile Article No. per unit unit = 3 pcs.	Profile terminal terminal area 64x20-42 mm for double-T-profile Article No. per unit unit = 3 pcs.	Profile terminal terminal area 81x20-42 mm for double-T-profile Article No. per unit unit = 3 pcs.	Profile terminal terminal area 101x20-42 mm for double-T-profile Article No. per unit unit = 3 pcs.	Profile terminal terminal area 101x23-45 mm for triple-T-profile Article No. per unit unit = 3 pcs.
AKP800 107198	**AKP750** 138364	**AKP1000** 107199	**AKP900** 138365	**AKP1200** 138366	**AKP1600** 138367	**AKP2000** 138368	**AKP3600** 138369

Universal Conductor Connection Terminal for Busbar 10 mm

VT13506



16 mm²	35 mm²	70 mm²	120 mm²
Article No. per unit unit = 100 pcs.	Article No. per unit unit = 50 pcs.	Article No. per unit unit = 25 pcs.	Article No. per unit unit = 25 pcs.
AKU16/10 107191	**AKU35/10** 107192	**AKU70/10** 107193	**AKU120/10** 107194

Connection terminals

VT13306



Brace terminal for bar 20x5 up to 30x10, 95-185 mm²

Article No.
per unit
unit = 6 pcs.

AKS185
107195

VT13406



Brace terminal for bar 20x5 up to 30x10, 150-300 mm²

Article No.
per unit
unit = 6 pcs.

AKS300
107196

VT01610



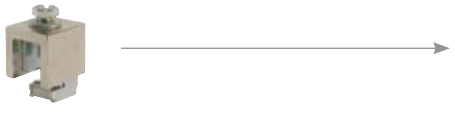
Connection terminal for round/sector conductors for busbar 30x10, T and double-T-profile

Article No.
per unit
unit = 6 pcs.

AK300
138363

Screw-type connections, to be snapped on

wa_vt73513



Screw-type connections to be snapped on, for cable lug (M8) on 10 mm bar	Screw-type connections to be snapped on, for cable lug (M10) on 10 mm bar
Article No. per unit unit = 20 pcs.	Article No. per unit unit = 6 pcs.
AKU-M8/10 138362	**AKU-M10/10** 138361

Suspension clamp for Cu feed-in systems in the XP section

VT61314



Suspension clamp
for 1 Cu bar

Article No.
per unit
unit = 10 pcs.

XTAAB3
173038

VT61214



Suspension clamp
for 2+3 Cu bars

Article No.
per unit
unit = 10 pcs.

XTAAB2
173037

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- Fitting kits for outgoing sections, main busbar top-mounted ..... Page xx
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Fitting kits for outgoing sections Form 4

VT19809



Section depth mm	Fitting kits for LS outgoing sections Module width 400 mm Form 4 Article No. per unit	Fitting kits for LS outgoing sections Module width 600 mm Depth = 275 mm Form 4 Article No. per unit	Fitting kits for LS outgoing sections Module width 600 mm Depth = 475 mm Form 4 Article No. per unit	Fitting kits for LS outgoing sections Module width 400 mm Form 4 without cable connection Article No. per unit	Fitting kits for LS outgoing sections Module width 600 mm Form 4 without cable connection Article No. per unit
600	**XSMFDB0406-N** 193135	**XSMFDB0606-N** 193137	**-**	**XSMFDB0406-2-N** 193140	**XSMFDB0606-2-N** 193141
800	**XSMFDB0408-N** 193136	**XSMFDB0608-N** 193138	**XSMFDB0608-350-N** 193139	**XSMFDB0406-2-N** 193140	**XSMFDB0606-2-N** 193141

Fitting kits for Box Solution

VT19809



Section depth mm	Fitting kits for Box Solution suitable for 400/600 mm module width, depth = 275 mm Form 4 Article No. per unit unit = 1 set	Fitting kits for Box Solution suitable for 400/600 mm module width, depth = 475 mm Form 4 Article No. per unit unit = 1 set	Fitting kits for Box Solution suitable for 400/600 mm module width, depth = 275 mm without cable area Form 4 Article No. per unit unit = 1 set	Fitting kits for Box Solution suitable for 400/600 mm module width, depth = 475 mm without cable area Form 4 Article No. per unit unit = 1 set
600	**XSMFDB0606-BS-N** 193142 125971*	**-**	**XSMFDB0606-BS-2** 168934 186676*	**-**
800	**XSMFDB0608-BS-N** 193143 125972*	**XSMFDB0608-BS-350-N** 193144 186678*	**-**	**XSMFDB0608-2-350** 168935 186677*

Note * Finish in special RAL colour

xEnergy Main Switchboards

Fitting kits for outgoing sections

Fitting Kits for Fuse Strips, main busbar rear-mounted

VT04710



VT04610



wa_vt54513



Section width mm	Fitting kits for fuse strips Article No. per unit	Blind frame kits for XSMLV-/-CH.. and XSMLV Article No. per unit	Fitting kits for SL size 00 in upper third of section e.g. above IZM Article No. per unit
425	**XSMLV-I** 143418 143554*	-	**XSMLO0604** 106732 122511*
600	**XSMLV-I** 143418 143554*	**XSMLV-I-CH06** 143419 143555*	**XSMLO0606** 106733 122512*
800	**XSMLV-I** 143418 143554*	**XSMLV-I-CH08** 143420 143556*	**XSMLO0608** 106734 122513*
1000	**XSMLV-I** 143418 143554*	**XSMLV-I-CH10** 143421 143557*	**XSMLO0610** 106735 122514*

Accessories for Outgoing Sections: xEnergy Main Fitting Frame

wa_vt23013



Section width mm	Fitting frame for original xEnergy Main front panels H = 600 mm Article No. per unit	Fitting frame for original xEnergy Main front panels H = 2000 mm Article No. per unit	Fitting frame for EP H = 2000 mm Article No. per unit
425	**XSMEX0604** 106556 122461*	**XSMEX2004** 106560 122465*	**XVTL-EP-4/20** 143246
600	**XSMEX0606** 106557 122462*	**XSMEX2006** 106561 122466*	**XVTL-EP-6/20** 143247
800	**XSMEX0608** 106558 122463*	**XSMEX2008** 106562 122467*	-
850	-	-	**XVTL-EP-85/20** 143248
1000	**XSMEX0610** 106559 122464*	**XSMEX2010** 106563 122468*	-
1100	-	-	**XVTL-EP-11/20** 143244
1350	-	-	**XVTL-EP-135/20** 143245

Note * Finish in special RAL colour

Front Panels / Empty-space Covers

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• EBS front panels ..... Page xx
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• Empty-space covers ..... Page xx

Accessories for Outgoing Sections

xEnergy Main EBS Front Panels for FAZ

wa_vt67713 wa_vt54813 wa_vt70813



Width mm	UK H = 50 mm for PLH switch	H = 150 mm	H = 200 mm	H = 300 mm	H = 400 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	-	**XMMC0604C** 283979 122152*	**XMMC0804C** 283983 122154*	**XMMC1204C** 283987 122156*	**XMMC1604C** 283991 122158*
600	**XMPL10606C-UK** 110258 122595*	**XMMC0606C** 283981 122153*	**XMMC0806C** 283985 122155*	**XMMC1206C** 283989 122157*	**XMMC1606C** 283993 122159*
800	-	**XMMC0608C** 106718 122507*	**XMMC0808C** 106730 122509*	-	-
1000	-	**XMMC0610C** 106719 122508*	**XMMC0810C** 106731 122510*	-	-

xEnergy Main EBS Front Panels empty

wa_vt67613 wa_vt33613 wa_vt67313



Width mm	H = 25 mm	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 400 mm	H = 600 mm	H = 800 mm	ventilated H = 100 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	-	**XME0204C** 283922 122121*	**XME0404C** 283926 122123*	**XME0604C** 283934 122129*	**XME0804C** 283939 122134*	**XME1004C** 144587 144589*	**XME1204C** 283946 122139*	**XME1604C** 283948 122141*	**XME2404C** 294923 122412*	-	**XME0404CV** 283928 122125*
600	**XME0106C** 158619 158620*	**XME0206C** 283924 122122*	**XME0406C** 283930 122126*	**XME0606C** 283936 122131*	**XME0806C** 283942 122136*	**XME1006C** 144588 144590*	**XME1206C** 283947 122140*	**XME1606C** 283950 122142*	**XME2406C** 294924 122413*	**XME3206C** 294926 122415*	**XME0406CV** 283932 122128*

Note

* Finish in special RAL colour

. . . also for use in the Main Bus Bar Top (BXT) system

Accessories for Outgoing Sections

xEnergy Main EBS Front Panels for PKZ 0/4

wa_vt67813 wa_vt67913




Width mm	Horizontal 3-pole H = 50 mm PKZ0 Article No. per unit	Horizontal 3-pole H = 100 mm PKZ4 Article No. per unit
425	**XMP030204C** 284087 122212*	**XMP430404C** 284095 122214*
600	**XMP030206C** 284089 122213*	**XMP430406C** 284097 122215*

xEnergy Main EBS Front Panels for NZM1

wa_vt66913 wa_vt67413 wa_vt67513 wa_vt67413 wa_vt68913



Width mm	UK 1x NZM1 horizontal 4-pole H = 150 mm fixed with cut-out for measu-ring device 90/90 Article No. per unit	UK 1x NZM1 horizontal 4-pole H = 150 mm fixed Article No. per unit	1x NZM1 horizontal 3-pole H = 100 mm fixed Article No. per unit	1x NZM1 horizontal 4-pole H = 150 mm fixed Article No. per unit	1x NZM1 horizontal 4-pole H = 150 mm plug-in module technology Article No. per unit	2x NZM1 Vertical 3-pole H = 300 mm fixed Article No. per unit	3x NZM1 vertical 3-pole H = 300 mm fixed Article No. per unit	2x NZM1 vertical 4-pole H = 300 mm fixed Article No. per unit	3x NZM1 vertical 4-pole H = 300 mm fixed Article No. per unit
425	-	-	**XMN130404C** 283995 122160*	**XMN140604C** 284003 122164*	**XMN130604C** 121799 122637*	**XMN131204CV** 283999 122162*	-	**XMN141204CV** 284007 122166*	-
600	**XMN140606C-1-UK** 110262 122599*	**XMN140606C-UK** 110259 122596*	**XMN130406C** 283997 122161*	**XMN140606C** 284005 122165*	**XMN130606C** 121797 122636*	-	**XMN131206CV** 284001 122163*	-	**XMN141206CV** 284009 122167*

Note

* Finish in special RAL colour

. . . also for use in the Main Bus Bar Top (BXT) system

Accessories for Outgoing Sections

xEnergy Main EBS Front Panels for NZM2

wa_vt54613



Width mm	UK 1x NZM2 horizontal 4-pole H = 200 mm with cut-out for measuring devices fixed Article No. per unit	UK 1x NZM2 horizontal 4-pole H = 200 mm fixed Article No. per unit	1x NZM2 horizontal 3-pole H = 150 mm fixed Article No. per unit	1x NZM2 horizontal 3-pole H = 150 mm plug-in module technology Article No. per unit	1x NZM2 horizontal 3-pole H = 150 mm with motor lift (placed 15 mm above front panel) Article No. per unit	1x NZM2 horizontal 4-pole H = 200 mm fixed Article No. per unit	1x NZM2 horizontal 4-pole H = 200 mm with motor lift (placed 15 mm above front panel) Article No. per unit	1xNZM2 horizontal 4-pole H = 200 mm plug-in technology fixed Article No. per unit
425	-	-	**XMN230604C** 284011 122168*	-	-	**XMMC0804C** 283983 122154*	-	-
600	**XMN240606C-1-UK** 110263 122600*	**XMN240606C-UK** 110260 122597*	**XMN230606C** 284013 122169*	**XMN230606C** 284013 122169*	**XMN230606CR** 292907 122406*	**XMN240806C** 284026 122176*	**XMN240806CR** 125993 125994*	**XMN240806C** 284026 122176*

xEnergy Main EBS Front Panels for NZM2 (continued)

wa_vt70713



Width mm	1x NZM2 horizontal 4-pole H = 200 mm cover for RCD module fixed Article No. per unit	2x NZM2 Vertical 3-pole H = 400 mm fixed Article No. per unit	3x NZM2 Vertical 3-pole H = 400 mm fixed Article No. per unit	2x NZM2 Vertical 3-pole H = 600 mm plug-in module tech-nology Article No. per unit	3x NZM2 Vertical 3-pole H = 600 mm plug-in technology Article No. per unit	2x NZM2 Vertical 4-pole H = 400 mm fixed Article No. per unit	2x NZM2 Vertical 4-pole H = 600 mm plug-in technology Article No. per unit
425	-	**XMN231604CV** 284015 122170*	-	**XMN232404CV** 284019 122172*	-	**XMN241604CV** 284028 122177*	**XMN242404CV** 284032 122179*
600	**XMN240806CF** 284659 122356*	-	**XMN231606CV** 284017 122171*	-	**XMN232406CV** 284021 122173*	**XMN241606CV** 284030 122178*	**XMN242406CV** 284034 122180*

Note

* Finish in special RAL colour

. . . also for use in the Main Bus Bar Top (BXT) system

Accessories for Outgoing Sections

xEnergy Main EBS Front Panels for NZM3

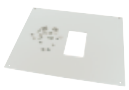
wa_vt67113



Width mm	UK 1x NZM3 horizontal 4-pole H = 250 mm with cut-out for measuring devices fixed Article No. per unit	UK 1x NZM3 horizontal 4-pole H = 250 mm fixed Article No. per unit	1x NZM3 horizontal 3-pole H = 200 mm fixed Article No. per unit	1x NZM3 horizontal 3-pole H = 250 mm fixed Article No. per unit	1x NZM3 horizontal 4-pole H = 250 mm fixed Article No. per unit	1x NZM3 horizontal 4-pole H = 300 mm fixed Article No. per unit	1x NZM3 horizontal 3-pole H = 600 mm fixed Article No. per unit	2x NZM3 vertical 3-pole H = 600 mm fixed Article No. per unit
425	-	-	-	-	-	-	**XMN332404CV2** 284044 122186*	-
600	**XMN340606C-1-UK** 110264 122601*	**XMN340606C-UK** 110261 122598*	**XMN330806C** 284036 122181*	**XMN331006C** 284039 122183*	**XMN341006C** 284052 122191*	**XMN341206C** 284055 122193*	-	**XMN332406CV2** 284049 122189*

xEnergy Main EBS Front Panels for NZM3 (continued)

wa_vt73013



Width mm	1x NZM3 vertical 3-pole H = 600 mm withdrawable, suitable only for sections of 800 mm depth Article No. per unit	1x NZM3 vertical 4-pole H = 600 mm fixed Article No. per unit	1x NZM3 vertical 4-pole H = 600 mm withdrawable, suitable only for sections of 800 mm depth Article No. per unit	1x NZM3 horizontal 3-pole H = 200 mm with motor lift, lift sticks 55 mm out of front panel, no turning of the front panel possible, fixed Article No. per unit	1x NZM3 horizontal 4-pole H = 250 mm with motor lift, lift sticks 55 mm out of front panel, no turning of the front panel possible, fixed Article No. per unit	1x NZM3 horizontal H = 250 mm plug-in technology Article No. per unit	1x NZM3 horizontal H = 300 mm plug-in technology Article No. per unit
425	**XMN332404CV1** 284042 122184*	**XMN342404CV2** 284060 122196*	**XMN342404CV1** 284058 122194*	-	-	-	-
600	**XMN332406CV1** 284047 122187*	**XMN342406CV2** 284065 122200*	**XMN342406CV1** 284063 122198*	**XMN330806CR** 284037 122182*	**XMN341006CR** 284053 122192*	**XMN331006CP** 172200 172324*	**XMN341206CP** 172202 172325*

Note * Finish in special RAL colour
. . . also for use in the Main Bus Bar Top (BXT) system

Box Solution Doors IP55

- IP55 closed
- Doors suitable for combined section set-ups (switchgear area + cable-connection area), as well as for panels without connection area
- Both left and right hand hinges possible
- No cut-outs for rotary drives

VT22109



Door height	Door width 425 mm	Door width 600 mm	Door width 800 mm
	Article No. per unit	Article No. per unit	Article No. per unit
150	**XSDMC-0604** 193277	**XSDMC-0606** 192624	**XSDMC-0608** 192625
200	**XSDMC-0804** 192845	**XSDMC-0806** 192626	**XSDMC-0808** 192627
250	**XSDMC-1004** 192846	**XSDMC-1006** 192628	**XSDMC-1008** 192629
300	**XSDMC-1204** 192847	**XSDMC-1206** 192630	**XSDMC-1208** 192631
350	**XSDMC-1404** 193278	**XSDMC-1406** 192632	**XSDMC-1408** 192633
400	**XSDMC-1604** 193279	**XSDMC-1606** 192634	**XSDMC-1608** 192635
450	**XSDMC-1804** 193280	**XSDMC-1806** 192636	**XSDMC-1808** 192637
500	**XSDMC-2004** 193281	**XSDMC-2006** 192638	**XSDMC-2008** 192639
600	**XSDMC-2404** 192848	**XSDMC-2406** 192640	**XSDMC-2408** 192641
800	**XSDMC-3204** 192849	**XSDMC-3206** 192642	**XSDMC-3208** 192643
1000	**XSDMC-4004** 192850	**XSDMC-4006** 192644	**XSDMC-4008** 192645
1200	**XSDMC-4804** 192851	**XSDMC-4806** 192646	**XSDMC-4808** 192647
1400	**XSDMC-5604** 192852	**XSDMC-5606** 192648	**XSDMC-5608** 192649
1600	**XSDMC-6404** 192853	**XSDMC-6406** 192650	**XSDMC-6408** 192651

Box Solution Doors IP31

- IP31 ventilated
- Door/compartment sizes based on MCCB frame sizes
- All IP31 doors come with pre-cut mounting holes for MCCB rotary handles
- Doors suitable for combined section set-ups (switchgear area + cable-connection area), as well as for panels without connection area
- Dual, 1/2 width modules, include a central partition
- Hinges are available on left side only
- No mirror set-up possible with IP31 (ventilated doors)
- Outgoing cable area is always on the right

Only 3 pole switchgear is possible

	MCCB frame size NZM1		MCCB frame size NZM2		MCCB frame size NZM3 suitable up to max. 400 A		MCCB frame size NZM3 suitable for the 400-630 A solution			MCCB frame size NZM4
	Door height 150 mm	Door height 200 mm	Door height 200 mm	Door height 300 mm	Door height 250 mm	Door height 300 mm	Door height 350 mm	Door height 500 mm	Door height 600 mm	Door height 450 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
Module width 425 Single module Fixed	XSMV-130804-BF in prep.	XSDMV-230804-BF in prep.	-	-	-	-	-	-	-	-
Module width 425 Single module Plug-in installation	-	-	-	-	-	-	-	-	-	-
Module width 425 Double module Fixed	XSDMV-130804-BF-PI in prep.	XSDMV-230804-BF-PI in prep.	-	-	-	-	-	-	-	-
Module width 425 Double module Plug-in installation	-	-	-	-	-	-	-	-	-	-
Module width 600 Single module Fixed	XSDMV-130806-BF in prep.	-	-	-	-	-	-	-	-	-
Module width 600 Single module Plug-in installation	XSDMV-130806-BF-PI in prep.	-	-	-	-	-	-	-	-	-
Module width 600 Double module Fixed	-	-	-	-	-	-	-	-	-	-
Module width 600 Double module Plug-in installation	-	-	-	-	-	-	-	-	-	-
Module width 800 Single module Fixed	-	-	-	-	-	-	-	-	-	-
Module width 800 Single module Plug-in installation	-	-	-	-	-	-	-	-	-	-
Module width 800 Double module Fixed	-	-	-	-	-	-	-	-	-	-
Module width 800 Double module Plug-in installation	-	-	-	-	-	-	-	-	-	-

Box Solution Doors IP31

- IP31 ventilated
- Door/compartment sizes based on MCCB frame sizes
- All IP31 doors come with pre-cut mounting holes for MCCB rotary handles
- Doors suitable for combined section set-ups (switchgear area + cable-connection area), as well as for panels without connection area
- Dual, 1/2 width modules, include a central partition
- Hinges are available on left side only
- No mirror set-up possible with IP31 (ventilated doors)
- Outgoing cable area is always on the right

3 and 4 pole switchgear are possible

vt24617



vt24417



	MCCB frame size NZM1		MCCB frame size NZM2		MCCB frame size NZM3 suitable up to max. 400 A		MCCB frame size NZM3 suitable for the 400-630 A solution			MCCB frame size NZM4
	Door height 150 mm	Door height 200 mm	Door height 200 mm	Door height 300 mm	Door height 250 mm	Door height 300 mm	Door height 350 mm	Door height 500 mm	Door height 600 mm	Door height 450 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
Module width 425 Single module Fixed	-	XSDMV-130804-BF 193119	XSDMV-230804-BF 193120	XSDMV-241204-BF 193121	-	-	-	-	XSDMV-342404-BF 193122	-
Module width 425 Single module Plug-in installation	-	XSDMV-130804-BF-PI 193127	XSDMV-230804-BF-PI 193128	XSDMV-241204-BF-PI 193129	-	-	-	-	XSDMV-342404-BF-PI 193130	-
Module width 600 Single module Fixed	-	XSDMV-130806-BF 193123	XSDMV-240806-BF 192724	XSDMV-241206-BF 193124	XSDMV-341006-BF-400 192616	XSDMV-341206-BF 193125	XSDMV-341406-BF-630 192619	XSDMV-342006-BF 193126	-	-
Module width 600 Single module Plug-in installation	-	XSDMV-130806-BF-PI 193131	XSDMV-240806-BF-PI 192610	XSDMV-241206-BF-PI 193132	XSDMV-341006-BF-400-PI 192617	XSDMV-341206-BF-PI 193133	-	XSDMV-342006-BF-PI 193134	-	-
Module width 600 Double module Fixed	XSDMV-140606-BF-2 192720	-	XSDMV-240806-BF-2 192613	-	-	-	-	-	-	-
Module width 600 Double module Plug-in installation	XSDMV-140606-BF-2-PI 192721	-	-	-	-	-	-	-	-	-
Module width 800 Single module Fixed	-	-	XSDMV-240808-BF 192611	-	XSDMV-341008-BF-400 192618	-	XSDMV-341408-BF-630 192620	-	-	XSDMV-441808-BF 192622
Module width 800 Single module Plug-in installation	-	-	XSDMV-240808-BF-PI 192612	-	XSDMV-341008-BF-400-PI 192621	-	-	-	-	-
Module width 800 Double module Fixed	XSDMV-140608-BF-2 192722	-	XSDMV-240808-BF-2 192614	-	-	-	-	-	-	-
Module width 800 Double module Plug-in installation	XSDMV-140608-BF-2-PI 192723	-	XSDMV-240808-BF-2-PI 192615	-	-	-	-	-	-	-

Cover plates for rotary-drive punch holes

- Cover plate for the rotary handle mounting holes when rotary handle is not fitted
- To be used when only 1 MCCB is fitted in a dual (1/2 width) module is used and the second module is empty. Or for use in empty spare modules are fitted
- Suitable for NZM1, NZM2 and NZM3

Cover Plate (blind plate)	Article No. per unit
XAS-BF	192623

Box Solution snap-on covers

- IP55 closed
- Covers for combined section set-ups (switchgear area + cable-connection area), as well as for panels without connection area

vt24817



Cover height mm	Cover width 425 mm	Cover width 600 mm	Cover width 800 mm
	Article No. per unit	Article No. per unit	Article No. per unit
50	**XMC-0204** in prep.	**XMC-0206** 192652	**XMC-0208** 192653
100	**XMC-0404** in prep.	**XMC-0406** 192654	**XMC-0408** 192655

Accessories for Outgoing Sections

EBS Front Panels with Punch Holes, EBS Front Panels with Cut-out for Measuring Devices

wa_vt67213 wa_vt71713 wa_vt71613 wa_vt67013 wa_vt67013 wa_vt71513



Width mm	9x RMQ D = 22,5 mm H = 100 mm	12x RMQ D = 22,5 mm H = 100 mm	2x Messgeräte 72/72 2x change-over switch H = 150 mm	4x Messgeräte 72/72 1x change-over switch H = 200 mm	2x Messgeräte 72/72 2x change-over switch H = 150 mm	4x Messgeräte 96/96 2x change-over switch H = 150 mm	2x Messgeräte 96/96 2x change-over switch H = 200 mm	4x Messgeräte 96/96 1x change-over switch H = 200 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	**XME0404CI** 283927 122124*	-	**XME0604CM** 283935 122130*	**XME0804CM** 283940 122135*	-	-	-	-
600	-	**XME0406CI** 283931 122127*	-	-	**XME0606CM2** 283937 122132*	**XME0606CM4** 283938 122133*	**XME0806CM2** 283943 122137*	**XME0806CM4** 283944 122138*

Covers for circuit breaker cut-out

wa_vt69813



NZM1 Closing plate for closing the front cover (spare space)	NZM2 Closing plate for closing the front cover (spare space)	NZM3 Closing plate for closing the front cover (spare space)
Article No. per unit	Article No. per unit	Article No. per unit
NBP-1000 275413	**XAS2-3** 284741 122364*	**XAS3-3** 284743 122366*

Note

* Finish in special RAL colour
. . . also for use in the Main Bus Bar Top (BXT) system

Accessories for Outgoing Sections

Empty-space covers

VT08406



VT08506



VT08606



For SSL H = 25 mm	For SSL H = 50 mm	For SSL H = 75 mm	For SSL H = 75 mm ventilated	For SSL H = 150 mm	Only Eaton for SL W = 50 mm	Only Eaton for SL W = 100 mm
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XME0601CS 289955 122393*	**XME0602CS** 292500 122399*	**XME0603CS** 292501 122400*	**XME0603CSV** 129011 129014*	**XME0606CS** 292502 122401*	**XME0602CL** 289904	**XME0604CL** 289905

Empty-space Covers for PIFT

VT28410



Height mm	Empty-space cover for closing the gap between switchgear area and cable connection area Article No. per unit unit = 1 pc.
25	**XPFMC25** 143197
50	**XPFMC50** 143198
75	**XPFMC75** 143199
100	**XPFMC100** 143194
150	**XPFMC150** 143195
200	**XPFMC200** 143196

Empty-space cover SL

VT34210



Cover profile in addition to SL empty-space cover (to close the gap between dropper bar and blind cover) Article No. per unit unit = 1 m
XPLSTB-1000 150540

Outgoing Sections: Mounting Plates / Drawers / Plug-in Modules / Partitions

• Mounting Plates ..... Page xx
• Plug-in module technology ..... Page xx
• Partitions ..... Page xx
• Separation panels ..... Page xx

Accessories for Outgoing Sections

Mounting Plates for FAZ

wa_vt68413 wa_vt55013 wa_vt71413





Width mm	UK	min. H = 150 mm 1 row	min. H = 200 mm 1 row	min. H = 300 mm 2 rows	min. H = 400 mm 2 rows
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	-	**XMMC0604M** 283980	**XMMC0804M** 283984	**XMMC1204M** 283988	**XMMC1604M** 283992
600	**XMPL10606M-UK** 110254	**XMMC0606M** 283982	**XMMC0806M** 283986	**XMMC1206M** 283990	**XMMC1606M** 283994
800	-	**XMMC0608M** 106736	**XMMC0808M** 106737	-	-
1000	-	**XMMC0610M** 106738	**XMMC0810M** 106739	-	-

Mounting Plates empty

wa_vt33513



Width mm	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 350 mm	H = 400 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	**XME0204M** 283923	**XME0404M** 283929	**XME0604M** 284727	**XME0804M** 283941	**XME1004M** 144585	**XME1204M** 285684	**XME1404M-1** 110333	**XME1604M** 283949
600	**XME0206M** 283925	**XME0406M** 283933	**XME0606M** 284728	**XME0806M** 283945	**XME1006M** 144586	**XME1206M** 285686	**XME1406M-1** 110339	**XME1606M** 283951

. . . also for use in the Main Bus Bar Top (BXT) system

Accessories for Outgoing Sections

Mounting Plates for PKZ

wa_vt68313



wa_vt68113



Width mm	Horizontal 3-pole H = 50 mm Article No. per unit	Horizontal 3-pole H = 100 mm Article No. per unit
425	**XMP030204M** 284088	**XMP430404M** 284096
600	**XMP030206M** 284090	**XMP430406M** 284098

Mounting Plates for NZM1

wa_vt68013



wa_vt68113



Width mm	UK 1x NZM1 horizontal 4-pole H = 150 mm fixed Article No. per unit	1x NZM1 horizontal 3-pole H = 100 mm fixed Article No. per unit	1x NZM1 horizontal 4-pole H = 150 mm fixed Article No. per unit	1x NZM1 horizontal 3-pole H = 150 mm plug-in module tech-nology Article No. per unit	2x NZM1 Vertical 3-pole H = 300 mm fixed Article No. per unit	3x NZM1 Vertical 3-pole H = 300 mm fixed Article No. per unit	2x NZM1 Vertical 4-pole H = 300 mm fixed Article No. per unit	3x NZM1 Vertical 4-pole H = 300 mm fixed Article No. per unit
425	-	**XMN130404M** 283996	**XMN140604M** 284004	**XMN130604MP** 121798	**XMN131204MV** 284000	-	**XMN141204MV** 284008	-
600	**XMN140606M-UK** 110255	**XMN130406M** 283998	**XMN140606M** 284006	**XMN130606MP** 121796	-	**XMN131206MV** 284002	-	**XMN141206MV** 284010

. . . also for use in the Main Bus Bar Top (BXT) system

Accessories for Outgoing Sections

Mounting Plates for NZM2

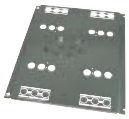
wa_vt54913



Width mm	UK 1x NZM2 horizontal 4-pole H = 200 mm fixed	1x NZM2 horizontal 3-pole H = 150 mm fixed	1x NZM2 horizontal 3-pole H = 150 mm plug-in module technology	1x NZM2 horizontal 3-pole H = 150 mm with motor lift (sticking 15 mm out of front panel)	1x NZM2 horizontal 4-pole H = 200 mm fixed	1x NZM2 horizontal 4-pole H = 200 mm plug-in technology	1x NZM2 horizontal 4-pole H = 200 mm cover for RCD module fixed	2x NZM2 Vertical 3-pole H = 400 mm fixed
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	-	**XMN230604M** 284012	-	-	**XMN240804M** 284025	-	-	**XMN231604MV** 284016
600	**XMN240606M-UK** 110256	**XMN230606M** 284014	**XMN230606MP** 284724	**XMN230606M** 284014	**XMN240806M** 284027	**XMN240806MP** 284726	**XMN240806MF** 134485	-

Mounting Plates for NZM2 (several devices on one plate)

wa_vt73113



Width mm	3x NZM2 Vertical 3-pole H = 400 mm fixed	2x NZM2 Vertical 3-pole H = 600 mm plug-in module tech-nology	3x NZM2 Vertical 3-pole H = 600 mm plug-in technology	1x NZM2 Vertical 4-pole H = 400 mm fixed	1x NZM2 Vertical 4-pole H = 600 mm plug-in technology	2x NZM2 Vertical 4-pole H = 400 mm fixed	2x NZM2 Vertical 4-pole H = 600 mm plug-in technology
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	-	**XMN232404MV** 284020	-	**XMN241604MV** 284029	**XMN242404MV** 284033	-	-
600	**XMN231606MV** 284018	-	**XMN232406MV** 284022	-	-	**XMN241606MV** 284031	**XMN242406MV** 284035

. . . also for use in the Main Bus Bar Top (BXT) system

Accessories for Outgoing Sections

Mounting Plates for NZM3

wa_vt72913



Width mm	UK 1x NZM3 horizontal 4-pole H = 250 mm fixed	1x NZM3 horizontal 3-pole H = 200 mm fixed	1x NZM3 horizontal 3-pole H = 250 mm fixed	1x NZM3 horizontal 4-pole H = 250 mm fixed	1x NZM3 horizontal 4-pole H = 300 mm fixed	1x NZM3 Vertical 3-pole H = 600 mm fixed	2x NZM3 Vertical 3-pole H = 600 mm fixed	1x NZM3 Vertical 3-pole H = 600 mm withdrawable
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	-	-	-	-	-	**XMN332404MV** 284046	-	**XMN332404MV** 284046
600	**XMN340606M-UK** 110257	**XMN330806M** 284038	**XMN331006M** 284041	**XMN341006M** 284054	**XMN341206M** 284057	-	**XMN332406MV** 284051	**XMN332406MV** 284051

Mounting Plates for NZM3 (continued)

wa_vt72913



Width mm	1x NZM3 Vertical 4-pole H = 600 mm fixed	1x NZM3 Vertical 4-pole H = 600 mm withdrawable	1x NZM3 horizontal 3-pole H = 200 mm with motor lift, motor lift sticks 55 mm through front panel, no turning possible, fixed	1x NZM3 horizontal 4-pole H = 250 mm with motor lift, motor lift sticks 55 mm through front panel, no turning possible, fixed	1x NZM3 horizontal 3-pole H = 250 mm plug-in technology	1x NZM3 horizontal 4-pole H = 300 mm plug-in technology
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	**XMN342404MV** 284062	**XMN342404MV** 284062	-	-	-	-
600	**XMN342406MV** 284067	**XMN342406MV** 284067	**XMN330806M** 284038	**XMN341006M** 284054	**XMN331006MP** 172199	**XMN341206MP** 172201

. . . also for use in the Main Bus Bar Top (BXT) system

Mounting Plates for Box Solution

Articles highlighted in yellow are BF modules (British standard)
Rules for yellow marked articles:
- Doors are only available for IP31
- The matching module doors (IP31) can be fitted on the left side only
- Module doors come with pre-cut holes for rotary drives
- Outgoing cable area is always on the right
- Double modules are fitted left/right, with a central lock
- Can be equipped with Form 4b type 6/7 partitions
- Mounting plates for frame size 1-3 of the NZM series is suitable for both the fixed and the plug-in design
- Option to install a neutral conductor (3P+N)
- 3 or 4 poles, or 3P+N possible
- Comes with all the installation holes necessary for fixed or plug in option
- Includes all fixing brackets and screws
- All MCCBs are mounted horizontally with the exception of the NZM4 mounted vertically

Rules for articles without color marks:
- Doors are only available in IP55 (closed version)
- Door can be hinged left or right
- Doors without cut out's
- Outgoing cable area is choosable, left or right
- Mounting plates are equipped with different mounting holes depending on the version. Please refer to the respective item description (footnote) for the functions integrated in each module.
- Includes all fixing brackets and screws

vt25117



	MCCB Frame size NZM1		MCCB Frame size NZM2		MCCB Frame size NZM3 up to 400 A	MCCB Frame size NZM3 up to 630 A				MCCB Frame size NZM4
	Module height 150 mm	Module height 200 mm	Module height 200 mm	Module height 300 mm	Module height 250 mm	Module height 300 mm	Module height 350 mm	Module height 500 mm	Module height 600 mm	Module height 450 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
Module width 425 Single module	-	[3] XMN130804M-BS 125973	[1] XMN230804M-BS 125974	[2] XMN241204M-BS 125975	-	-	-	-	[5] XMN342404M-BS 125976	-
Module width 425 Double module	-	-	-	-	-	-	-	-	-	-
Module width 600 Single module	-	[3] XMN130806M-BS 125977	[4] XMN240806-BF 192711	[4] XMN241206M-BS 125979	[4] XMN341006-400-BF 192715	[4] XMN341206M-F-BS 125980	[4] XMN341406-630-BF 192717	[5] XMN3412006M-W-BS 125981	[5] XMN342006M-W-BS 125982	-
Module width 600 Double module	[4] XMN140606-BF-2 192709	-	[4] XMN240806-BF-2 192713	-	-	-	-	-	-	-
Module width 800 Single module	-	-	[4] XMN240808-BF 192712	-	[4] XMN341008-400-BF 192716	[4] XMN341408-630-BF 192718	-	-	-	[4] XMN441808-630-BF 192719
Module width 800 Double module	[4] XMN140608-BF-2 192710	-	[4] XMN240808-BF-2 192714	-	-	-	-	-	-	-

[1] 3-poles, fixed
[2] 3+4-poles, fixed
[3] 3+4-poles, fixed, Plug-In module
[4] 3+4/3P+N-poles, Fixed design, Plug-In module
[5] 3+4/3P+N-poles, Fixed design, Plug-In module, withdrawable

. . . also for use in the Main Bus Bar Top (BXT) system

Undrilled component mounting plates for Box-Solution

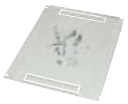
- Includes fastening material (screws and fastening brackets)

wa_vt33513



Module height mm	Width 425 mm	Width 600 mm	Width 800 mm
	Article No. per unit	Article No. per unit	Article No. per unit
50	**XME0204M** 283923	**XME0206M** 283925	-
100	**XME0404M** 283929	**XME0406M** 283933	**XME0408M** 285689
150	**XME0604M** 284727	**XME0606M** 284728	**XME0608M** 285690
200	**XME0804M** 283941	**XME0806M** 283945	**XME0808M** 285691
250	**XME1004M** 144585	**XME1006M** 144586	**XME1208M** 171728
300	**XME1204M** 285684	**XME1206M** 285686	**XME1208M** 285692
350	**XME1404M-1** 110333	**XME1406M** 171724	**XME1408M** 171729
400	**XME1604M** 283949	**XME1606M** 283951	**XME1608M** 285693
500	**XME2004M-1** 110331	**XME2006M** 171725	**XME2008M** 171730
600	**XME2404M** 285685	**XME2406M** 285687	**XME2408M** 285694
800	-	**XME3206M** 126010	**XME3208M** 171731
1000	-	**XME4006M** 171726	**XME4008M** 171732
1200	-	**XME4806M** 171727	**XME4808M** 171733
1400	-	-	-
1600	-	-	-

Mounting Plates for XNH (disconnector)

	wa_vt68813	wa_vt70613	wa_vt70413	wa_vt70313
				
Width mm	For 3x XNH00 or 1x XNH3 H = 300 mm	For 2x XNH1 H = 400 mm	For 1x XNH2 H = 400 mm	For 1x XNH3 H = 600 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
600	**XMG031206MV** 283952	**XMG131606MV** 283953	**XMG231606MV** 283954	**XMG332406M** 114834

. . . also for use in the Main Bus Bar Top (BXT) system

Accessories for Outgoing Sections

Mounting Brackets for Underground Mounting Plates

VT18409



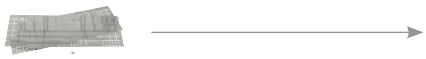
Underground bracket

Article No.
per unit
unit = 2 pcs. left bracket, 2 pcs. right bracket

XMBD
283921

Partitions for Internal Separation

VT25109



Form 2
Partition
connection area/dropper bar area

Article No.
per unit
unit = 1 set

XPFCD2006-PI-2
126019
XPFCD2008-PI-2
126020
-

Form 2/4
Partition
connection area/dropper bar area

Article No.
per unit
unit = 1 set

XPFCD2006
284132
XPFCD2008
284133
-

wa_vt58013



Form 4
Partition
switchgear area/switchgear area

Article No.
per unit
unit = 1 set

XPFMM04-BF
193111
XPFMMR06-BF
192705
-

wa_vt57913



Form 4
Verschlussstreifen
switchgear area/connection area, L = 650 mm

Article No.
per unit
unit = 1 set

XPFMC
284146
-
-

wa_vt71913



Form 2/4
connection area/dropper bar area
in the widths of 200/400/600

Article No.
per unit
unit = 1 set

XPFCB02
284745
XPFCB04
284119
XPFCB06
284746

. . . also for use in the Main Bus Bar Top (BXT) system

Accessories for Outgoing Sections: Continuous Mounting Plate/Partition for Cable Connection Area in an Outgoing Section

For fixing terminals/contact blocks in the cable connection area; it also serves as a partition between cable connection area and main busbar area. For outgoing sections in a 5000 A system (with an additional main busbar area) using this type of partitions is compulsory.

VT01611



Section width mm	Switchgear area width mm	Cable connection area width mm	NZM outgoing sections Form 2/4 Article No. per unit unit = 1 set
600	425	172	**XPFBCB172** 158606
800	425	372	**XPFBCB372** 158607
	600	197	**XPFBCB197** 158608
1000	600	397	**XPFBCB397** 158609
1200	600	597	**XPFBCB597** 158610

Accessories for Outgoing Sections

Separation panels

VT21209



wa_vt63313

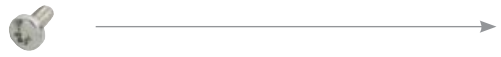


Width mm	For SL section Section depth 600 mm	For SL section Section depth 800 mm	For SL and SSL section vertical installation Section depth 600 mm EVEN type of connection	For SL and SSL section vertical installation Section depth 800 mm EVEN type of connection
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
600	**XPL-06** 284161	**XPL0608** 126006	**XPLB0606** 116456	**XPLB0608** 124415
800	**XPL-08** 284162	**XPL0808** 126007	**XPLB0806** 116457	**XPLB0808** 124416
1000	**XPL-10** 285500	**XPL1008** 126008	**XPLB1006** 116458	**XPLB1008** 124417

Screws and Accessories

Thread-cutting screws - Hammer-head screws

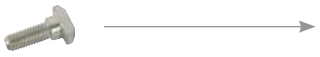
VT11709



VT12609



wa_vt65813



Thread-cutting screws M4	Thread-cutting screws M5	Thread-cutting screws M6	Thread-cutting flat-head screws M6x22	Hammer-head screws M10x30	Hammer-head screws M10x50
Article No. per unit unit = 100 pcs.	Article No. per unit unit = 100 pcs.	Article No. per unit unit = 100 pcs.	Article No. per unit unit = 50 pcs.	Article No. per unit unit = 50 pcs.	Article No. per unit unit = 50 pcs.
XNNGFS-M4X6 177618	**XNNGFS-M5X6** 177620	**XNNGFS-M6X12** 141865	**XNSNK-M6X22-8** 126935	**XNNHKS-M10X30** 141867	**XNNHKS-M10X50** 141868
XNNGFS-M4X8 177619	**XNNGFS-M5X8** 177621	**XNNGFS-M6X20** 141866	-	-	-
XNNGFS-M4X16 141863	**XNNGFS-M5X10** 141864	-	-	-	-

Counter-sunk screws

vt08717



vt09317



vt08617



vt09017

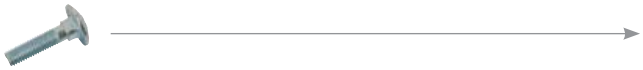


Counter-sunk screws M4	Counter-sunk screws M5	Counter-sunk screws M6	Counter-sunk screws M6 with small head (special for deviding plate)
Article No. per unit unit = 100 pcs.	Article No. per unit unit = 100 pcs.	Article No. per unit unit = 100 pcs.	Article No. per unit unit = 100 pcs.
XNNSNK-M4X12 177622	**XNNSNK-M5X12** 177623	**XNNSNK-M6X12** 177625	**XNNSNK-M6X12SH** 177626
-	**XNNSNK-M5X16** 177624	-	-

. . . also for use in the Main Bus Bar Top (BXT) system

Saucer head screws - Allen screws - Stud-type screws

VT11509



wa_vt65913



wa_vt73313

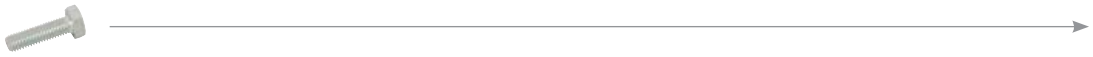


Saucer head screws (door fixing screw) M8	Saucer head screws (door fixing screw) M10	Saucer head screws (door fixing screw) M12	Allen screws M8	Stud-type screws M10
Article No. per unit unit = 30 pcs.	Article No. per unit unit = 30 pcs.	Article No. per unit unit = 30 pcs.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XNNFRS-M8X70 168952	**XNNFRS-M10X50-8** 168948	**XNNFRS-M12X40-8** 168939	**XNNISKS-M8X60-8** 144601	**XTANS-DIN939-M10X80** 173039
-	**XNNFRS-M10X60-8** 168955	**XNNFRS-M12X45-8** 179633	**XNNISKS-M8X80-8** 144600	**XTANS-DIN939-M10X100** 173040
-	**XNNFRS-M10X70-8** 168953	**XNNFRS-M12X50-8** 141861	**XNNISKS-M8X100-8** 144599	**XNSTS-M10X140-S** 141841
-	**XNNFRS-M10X80-8** 168950	**XNNFRS-M12X60-8** 168940	**XNNISKS-M8X120-8** 144598	-
-	-	**XNNFRS-M12X70-8** 141862	-	-
-	-	**XNNFRS-M12X80-8** 168941	-	-

. . . also for use in the Main Bus Bar Top (BXT) system

Hexagon head cap screws

VT11609



Hexagon head cap screws M8	Hexagon head cap screws M10	Hexagon head cap screws M10	Hexagon head cap screws M12
Article No. per unit unit = 50 pcs.	Article No. per unit unit = 50 pcs.	Article No. per unit unit = 30 pcs.	Article No. per unit unit = 30 pcs.
XNNSKS-M8X10-8 179621	**XNSKS-M10X16-8** 179626	**XNNSKS-M10X140-8** 141883	**XNNSKS-M12X20-8** 179632
XNNSKS-M8X12-8 179622	**XNNSKS-M10X20-8** 179627	**XNNSKS-M10X150-8** 179630	**XNNSKS-M12X40-8** 168958
XNNSKS-M8X16 141894	**XNNSKS-M10X25-8** 179628	**XNNSKS-M10X160-8** 141884	**XNNSKS-M12X50-8** 168957
XNNSKS-M8X20-8 179623	**XNNSKS-M10X30-8** 168951	**XNNSKS-M10X170-8** 179631	**XNNSKS-M12X55-8** 141890
XNNSKS-M8X25-8 179624	**XNNSKS-M10X35-8** 168954	**XNNSKS-M10X180-8** 141885	**XNNSKS-M12X60-8** 168947
XNNSKS-M8X30 168960	**XNNSKS-M10X40-8** 168945	**XNNSKS-M10X190-8** 141886	**XNNSKS-M12X70-8** 141891
XNNSKS-M8X35 168959	**XNNSKS-M10X45-8** 141808	**XTANS-DIN558-M10X210** 173503	**XNNSKS-M12X80-8** 141892
XNNSKS-M8X40-8 179625	**XNNSKS-M10X50-8** 168946	-	**XNNSKS-M12X90-8** 141893
XNNSKS-M8X45 141895	**XNNSKS-M10X55-8** 168944	-	**XTANS-DIN558-M12X170** 173501
XNNSKS-M8X50 168961	**XNNSKS-M10X60-8** 141887	-	**XTANS-DIN558-M12X180** 173502
XNNSKS-M8X120-8 150271	**XNNSKS-M10X65-8** 168949	-	-
XNNSKS-M8X130-8 150272	**XNNSKS-M10X70-8** 141888	-	-
XNNSKS-M8X140-8 150273	**XNNSKS-M10X80-8** 141889	-	-
XNNSKS-M8X150-8 150274	**XTANS-DIN558-M10X85** 173500	-	-
XNNSKS-M8X160-8 150275	**XNNSKS-M10X90-8** 168942	-	-
XNNSKS-M8X170-8 150276	**XNNSKS-M10X100-8** 141881	-	-
XNNSKS-M8X190-8 150277	**XNNSKS-M10X110-8** 168943	-	-
XNNSKS-M8X210-8 150278	**XNNSKS-M10X120-8** 141882	-	-
XNNSKS-M8X230-8 150279	**XNNSKS-M10X130-8** 179629	-	-

. . . also for use in the Main Bus Bar Top (BXT) system

Hammer-head screws

VT28710



Connection scews
Hammer-head screws
M12 (suitable for SL-I)

Article No. per unit unit = 30 pcs.
XNNHKS-M12X66 144071
XNNHKS-M12X80 144072
XNNHKS-M12X100 144073
XNNHKS-M12X120 144074

Hexagon nuts - Washers

VT11909



VT12209



Hexagon nuts M5	Hexagon nuts M6	Hexagon nuts M8	Hexagon nuts M10	Hexagon nuts M12	Washers M6	Washers M8	Washers M10
Article No. per unit unit = 50 pcs.	Article No. per unit unit = 50 pcs.	Article No. per unit unit = 50 pcs.	Article No. per unit unit = 50 pcs.	Article No. per unit unit = 50 pcs.	Article No. per unit unit = 50 pcs.	Article No. per unit unit = 50 pcs.	Article No. per unit unit = 50 pcs.
XNNSKM-M5 141878	**XNNSKM-M6** 141879	**XNNSKM-M8** 141880	**XNNSKM-M10** 141876	**XNNSKM-M12** 141877	**XNNUS-6** 141900	**XNNUS-8** 141901	**XNNUS-10** 141899

. . . also for use in the Main Bus Bar Top (BXT) system

Tooth washers - Spring lock washers - Curved washers - Insulating caps - Insert nuts

VT12409 VT12309 Vt12109 VT12509 VtT12009



Contact washers (Tooth washer) M6	Spring lock washers M6	Spring lock washers M8	Curved washers M8	Curved washers M10	Curved washers M12	Insulating caps M10	Insulating caps M12	Insert nuts M8	Insert nuts M10
Article No. per unit unit = 50 pcs.	Article No. per unit unit = 50 pcs.	Article No. per unit unit = 50 pcs.	Article No. per unit unit = 50 pcs.	Article No. per unit unit = 50 pcs.	Article No. per unit unit = 50 pcs.	Article No. per unit unit = 50 pcs.	Article No. per unit unit = 50 pcs.	Article No. per unit unit = 100 pcs.	Article No. per unit unit = 30 pcs.
XNNKS-M6 141871	**XNNFR-M6** 141859	**XNNFR-M8** 141860	**XNNSS-8-FST** 141898	**XNNSS-10-FST** 141896	**XNNSS-12-FST** 141897	**XNNIK-M10** 141869	**XNNIK-M12** 141870	**XNNEM-M8** 150270	**XNNEM-M10** 141858

. . . also for use in the Main Bus Bar Top (BXT) system

Retention washers - Washers

VT28810



Retention washers
(washer and fixation for the hammer-head screw used for SL-I)
M12

Article No.
per unit
unit = 30 pcs.

XNHS-M12
144075

VT12109



Washers
(for Bus Bar Top)
M10

Article No.
per unit
unit = 50 pcs.

XTANW-DIN6340-M10
173095

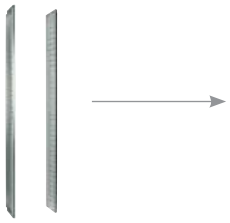
. . . also for use in the Main Bus Bar Top (BXT) system

General Accessories

• Mounting plates, mounting spars ..... Page xx
• Partition ..... Page xx
• Fixing brackets, support profiles ..... Page xx
• Crossbars, cross members, anchor rails ..... Page xx
• xEnergy Main fitting frame ..... Page xx
• Front panels closed ..... Page xx
• Mounting plates ..... Page xx
• Fitting frames, mounting frames ..... Page xx
• Design strips ..... Page xx
• Miscellaneous ..... Page xx

Mounting plates, mounting spars

VT00109



VT07406



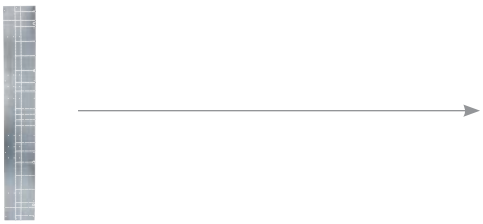
VT07506



Universal mounting plate	Universal mounting plate with cut out for mechanical lock. Necessary for IZM63 4 pole.	Universal Montageblech in shallow version	Universal mounting spar
Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pair
XSMIB20 284257	**XSMIB20-Z** 150399	**XSMIB20-1** 107292	**XSMNB20** 285511

Separation panels

VT02007



Separation panel section/section for section depth 200 mm	Separation panel section/section for section depth 400 mm	Separation panel section/section for section depth 600 mm	Separation panel section/section for section depth 800 mm
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XPSS2002 150495	**XPSS2004** 284781	**XPSS2006** 284178	**XPSS2008** 284179

Partitions, Main Busbar Covers over the total Section Width

vt21816



vt21716



wa_vt56913



Partition separation panel switchgear area/main busbar area H = 2000 mm W = 600 mm	Partition separation panel switchgear area/main busbar area (used for correction) H = 2000 mm W = 800 mm	Main busbar cover over the total section width width W = 425-600 mm	Main busbar cover over the total section width width W = 800-1000 mm	Main busbar cover over the total section width width W = 1200 mm	Main busbar cover over the total section width width W = 1350 mm
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XPBM2006 102053	**XPBM2008** 288998	**XPFCB04/06** 110265	**XPFCB08/10** 110266	**XPFCB12** 110267	**XPFCB135** 143193

Main Busbar Covers over the total Section Width (arc-fault protected)

wa_vt56913



Arc-fault protected main busbar cover over the total section width W = 425-600 mm	Arc-fault protected main busbar cover over the total section width W = 800-1000 mm	Arc-fault protected main busbar cover over the total section width W = 1200 mm	Arc-fault protected main busbar cover over the total section width W = 1350 mm
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XPFCBA04/06 172181	**XPFCBA08/10** 172180	**XPFCBA12** 172179	**XPFCBA135** 172178

Explication:
In contrast to the "ordinary" cover of the main busbar, this cover reaches as high as up to the top. So the pressure generated by an arc fault can escape upwards.

Fixing brackets

VT01211

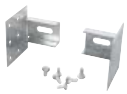


Fixing brackets
for cable strain relief rail

Article No.
per unit
unit = 10 pcs.

XNNBW-R
141851

wa_vt58313



Fixing brackets
for fixing the cable strain relief rail on the side

Article No.
per unit
unit = 1 pair

XNBW-R2
106740

wa_vt58413

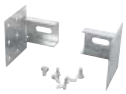


Fixing brackets
for raising the position of the cable strain relief rail

Article No.
per unit
unit = 1 pair

XNBW-R3
106741

wa_vt58313



Fixing brackets
for cable strain relief rail directly at the frame

Article No.
per unit
unit = 1 pair

XNBW-R4
158618

VT00712



Fixing brackets
anchoring rails
stock

Article No.
per unit
unit = 1 set

XNBW-RS
168122

VT00812



Fixing brackets
anchoring rails
corner

Article No.
per unit
unit = 1 set

XNBW-RC
168121

Support profile

VT25009



Support profile
over the total section height

Article No.
per unit
unit = 1 pc.

XSMPB20
288997

. . . also for use in the Main Bus Bar Top (BXT) system

Crossbars, Cross members, Anchor rails

wa_vt68713



wa_vt68613



wa_vt15013



Width mm	Crossbars for bar supports Article No. per unit unit = 1 pc.	Cross members (corner section) Article No. per unit unit = 1 pair	Anchor rails Article No. per unit unit = 1 pc.	Anchor rails for cable outgoing sections (UK) only in combination with XSMPB20 Article No. per unit unit = 1 pc.
400	**XBBB04** 283859	**XSFS04** 284854	**XAR04** 283850	**XAR04-R2** 118737
600	**XBBB06** 283860	**XSFS06** 284775	**XAR06** 283851	**XAR06-R2** 118738
800	**XBBB08** 283861	**XSFS08** 284776	**XAR08** 283852	-
850	**XBBB085** 143187	-	**XAR085** 143183	-
1000	**XBBB10** 283862	-	**XAR10** 283853	-
1100	**XBBB11** 133098	-	**XAR11** 133076	-
1200	**XBBB12** 283863	-	**XAR12** 283854	-
1350	**XBBB135** 133099	-	**XAR135** 133077	-

. . . also for use in the Main Bus Bar Top (BXT) system

xEnergy Main Fitting Frame

wa_vt70913

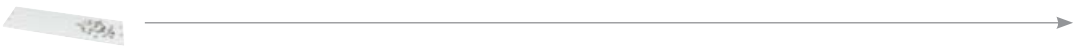


Width mm	Fitting frame for original xEnergy Main front panels H = 600 mm Article No. per unit unit = 1 set	Fitting frame for original xEnergy Main front panels H = 2000 mm Article No. per unit unit = 1 set
425	**XSMEX0604** 106556 122461*	**XSMEX2004** 106560 122465*
600	**XSMEX0606** 106557 122462*	**XSMEX2006** 106561 122466*
800	**XSMEX0608** 106558 122463*	**XSMEX2008** 106562 122467*
1000	**XSMEX0610** 106559 122464*	**XSMEX2010** 106563 122468*

Front panels closed

- Incl. fastening material.

wa_vt54713



Width mm	H = 50 mm Article No. per unit unit = 1 set	H = 100 mm Article No. per unit unit = 1 set	H = 150 mm Article No. per unit unit = 1 set	H = 200 mm Article No. per unit unit = 1 set	H = 300 mm Article No. per unit unit = 1 set	H = 400 mm Article No. per unit unit = 1 set	H = 600 mm Article No. per unit unit = 1 set	H = 800 mm Article No. per unit unit = 1 set
425	**XME0204C** 283922 122121*	**XME0404C** 283926 122123*	**XME0604C** 283934 122129*	**XME0804C** 283939 122134*	**XME1204C** 283946 122139*	**XME1604C** 283948 122141*	**XME2404C** 294923 122412*	-
600	**XME0206C** 283924 122122*	**XME0406C** 283930 122126*	**XME0606C** 283936 122131*	**XME0806C** 283942 122136*	**XME1206C** 283947 122140*	**XME1606C** 283950 122142*	**XME2406C** 294924 122413*	**XME3206C** 294926 122415*
800	-	**XME0408C** 290353 122398*	**XME0608C** 106712 122501*	**XME0808C** 290352 122397*	**XME1208C** 126011 126012*	**XME1608C** 290350 122396*	**XME2408C** 294925 122414*	-
1000	-	**XME0410C** 106713 122502*	**XME0610C** 106714 122503*	**XME0810C** 106715 122504*	**XME1210C** 126013 126014*	**XME1610C** 106716 122505*	**XME2410C** 106717 122506*	-
1200	-	-	-	-	-	-	**XME2412C** 126015 126016*	-

Note * Finish in special RAL colour

Undrilled component mounting plates for Box Solution

- Includes fastening material (screws and fastening brackets)

VT09006



Module height mm	Width 425 mm Article No. per unit	Width 600 mm Article No. per unit	Width 800 mm Article No. per unit	Width 1000 mm Article No. per unit	Width 1200 mm Article No. per unit
50	**XME0204M** 283923	**XME0206M** 283925	-	-	-
100	**XME0404M** 283929	**XME0406M** 283933	**XME0408M** 285689	**XME0410M** 285695	-
150	**XME0604M** 284727	**XME0606M** 284728	**XME0608M** 285690	**XME0610M** 285696	-
200	**XME0804M** 283941	**XME0806M** 283945	**XME0808M** 285691	**XME0810M** 285697	-
250	**XME1004M** 144585	**XME1006M** 144586	**XME1208M** 171728	-	-
300	**XME1204M** 285684	**XME1206M** 285686	**XME1208M** 285692	**XME1210M** 285698	-
350	**XME1404M-1** 110333	**XME1406M** 171724	**XME1408M** 171729	-	-
400	**XME1604M** 283949	**XME1606M** 283951	**XME1608M** 285693	**XME1610M** 285699	-
500	**XME2004M-1** 110331	**XME2006M** 171725	**XME2008M** 171730	-	-
600	**XME2404M** 285685	**XME2406M** 285687	**XME2408M** 285694	**XME2410M** 285700	**XME2412M** 102810
800	-	**XME3206M** 126010	**XME3208M** 171731	-	-
950	-	**XME3806M** 171660	**XME3808M** 171661	**XME3810M** 171662	**XME3812M** 171663
1000	-	**XME4006M** 171726	**XME4008M** 171732	-	-
1200	-	**XME4806M** 171727	**XME4808M** 171733	-	-
1400	-	-	-	-	-
1600	-	-	-	-	-

Mounting Plates as high as the Section

- Incl. fastening material

VT20509



Width mm	Mounting Plates as high as the Section busbar rear mounted H = 2000 mm incl. fastening bracket Article No. per unit unit = 1 set
425	**XSMMFB2004** 284263
600	**XSMMFB2006** 284264
800	**XSMMFB2008** 284265
1000	**XSMMFB2010** 284266
1200	**XSMMFB2012** 284267

Universal Carrier Plates

- Incl. fastening material

VT27810



Width mm	Carrier plate for universal use Article No. per unit unit = 1 set
600	**XMH0603** 144591
800	**XMH0803** 144592

. . . also for use in the Main Bus Bar Top (BXT) system

Fitting frames, mounting frames

- For all other individual components, please refer to the Profi+ catalogue (front panels, switchgear bars, ...)

wa_vt08513



wa_vt54213



Section depth mm	Fitting frame for installation outgoers xBoard Profi+ max. fitting depth in door to switchgear area 135 mm H = 2000 mm Article No. per unit unit = 1 set	Fitting frame for installation outgoers xBoard Profi+ max. fitting depth in door to switchgear area 185 mm H = 2000 mm Article No. per unit unit = 1 set	Mounting frame for installation outgoers xBoard Profi+ to be used for fixed installation, without MSW (cannot be turned out), in addition you will need support brackets for the front panels H = 2000 mm Article No. per unit unit = 1 set
425	**XVTL-BP-W-4/20** 115203	**XVTL-BP-W-4/20-185** 120624	**XVTL-BP-F-4/20** 115173
600	**XVTL-BP-W-6/20** 115210	**XVTL-BP-W-6/20-185** 120628	**XVTL-BP-F-6/20** 115180
800	**XVTL-BP-W-8/20** 115216	**XVTL-BP-W-8/20-185** 120631	**XVTL-BP-F-8/20** 115186
1000	**XVTL-BP-W-10/20** 115222	**XVTL-BP-W-10/20-185** 120634	**XVTL-BP-F-10/20** 115192
1200	**XVTL-BP-W-12/20** 115228	**XVTL-BP-W-12/20-185** 120637	**XVTL-BP-F-12/20** 115198

Design strips

VT27910



VT35210



Width mm	Design strips blue RAL 5017 Article No. per unit unit = 1 pc.	Design strips for corner section blue RAL 5017 Article No. per unit unit = 1 pc.
425	**XSFDR04-B** 143201	**XSFDL-B** 143200
600	**XSFDR06-B** 143202	-
800	**XSFDR08-B** 143204	-
850	**XSFDR085-B** 143203	-
1000	**XSFDR010-B** 143205	-
1100	**XSFDR11-B** 143206	-
1200	**XSFDR12-B** 143207	-
1350	**XSFDR135-B** 143208	-

. . . also for use in the Main Bus Bar Top (BXT) system

Circuit diagram pocket, Section connectors

wa_vt08413 | wa_vt27213 | VT16909 | VT17009 | vt81615 | vt81515 | wa_vt72613









Circuit diagram pocket	Section connecting brackets	Set of section connecting material	Set of section connecting material IP55	Set of section connecting material 8x hexagon socket screws M8x25 8x serrated washer and spring washer 8x nuts M8	Set of section connecting material IP55 8x hexagon socket screws M8x25 8x serrated washer and spring washer 8x nuts M8	Section connectors
Article No. per unit unit = 1 pc.	Article No. per unit unit = 2 pcs.	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 4 pcs.
XAB4 283482	**XACB** 134484	**XAC** 283483	**XAC55** 284793	**XACX** 182911	**XACX55** 182912	**XACC** 126859

Edge protection, Cover strips, Cable duct supports

VT18009 | VT18109 | wa_vt68513 | wa_vt68513






Edge protection	Cover strips 12MU (blind covers)	Cable duct supports W = 425 mm	Cable duct supports W = 600 mm
Article No. per unit VPE = 2 m	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XAK 283818	**XAS12** 284708	**XADB04** 284710	**XADB06** 284711

Grounding cable, Lifting eyebolts, Hinges

VT16509 | wa_vt69313 | VT16709 | wa_vt69213 | wa_vt01707 | VT25509








Grounding cable 10 mm² L = 420 mm	Grounding cable 10 mm² L = 180 mm	Grounding cable 6 mm² L = 300 mm	Grounding cable 4 mm² L = 420 mm	Grounding cable 4 mm² L = 180 mm	Lifting eyebolts	Hinges 180°	Hinges 180° left
Article No. per unit unit = 20 pcs.	Article No. per unit unit = 20 pcs.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 20 pcs.	Article No. per unit unit = 20 pcs.	Article No. per unit unit = 4 pcs.	Article No. per unit unit = 2 pcs.	Article No. per unit unit = 2 pcs.
XNAE10 141842	**XNAE10-18** 141843	**BF2-OES** 101665	**XNAE4-42** 141845	**XNAE4-18** 141844	**XAT** 283855	**XAH180** 284713	**XAH180L** 284792

. . . also for use in the Main Bus Bar Top (BXT) system

Fixing brackets, Bar supports, Earthquake reinforcement brackets set

wa_vt58513 

wa_vt72513 

VT27409 

VT27309 

vt61414 

VT09706 

VT09013 

Fixing brackets Bar supports	Fixing brackets Bar supports D = 600 mm	Fixing brackets Bar supports D = 800 mm	Fixing brackets Bar supports D = 600 mm	Fixing brackets Bar supports D = 800 mm	Fixing brackets Bar supports	Fixing brackets for mounting rails	Earthquake reinforcement brackets set
Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 4 pcs.	Article No. per unit unit = 1 set
XNNBW-G 141848	**XNNBW-E06** 141846	**XNNBW-E08** 141847	**XNNBW-G06** 141849	**XNNBW-G08** 141850	**XTAAB1** 173036	**XNBW-M** 290215	**XASMS** 171739

GFK supports

wa_vt78213 

wa_vt58113 

Länge mm	GFK supports 50x10	GFK supports 30x15	GFK supports 30x20	GFK supports 30x30	GFK supports 25x25
	Article No. per unit unit = 5 pcs.	Article No. per unit unit = 5 pcs.	Article No. per unit unit = 5 pcs.	Article No. per unit unit = 5 pcs.	Article No. per unit unit = 5 pcs.
1150	**XNNS-50X10** 141874	**XNNS-30X15** 133071	**XNNS-30X20** 133072	**XNNS-30X30** 141872	-
1300	**XNNS-50X10X1300** 133075	-	**XNNS-30X20X1300** 133074	**XNNS-30X30X1300** 133073	**XNNS-25X25** 141873

Diaphragm grommets

VT06508 

Diaphragm grommets metric M16 H03VV-F3x0,75mm² NYM 1x16,3x1,5mm² Article No. per unit unit = 100 pcs.	Diaphragm grommets metric M20 H03VV-F3x0,75mm² NYMM 5x1,5x2,5mm² Article No. per unit unit = 100 pcs.	Diaphragm grommets metric M25 H03VV-F3x0,75mm² NYM4x10mm² Article No. per unit unit = 100 pcs.	Diaphragm grommets metric M32 H03VV-F3x0,75mm² NYM 4x16/5x10mm² Article No. per unit unit = 100 pcs.
KT-M16 216983	**KT-M20** 207602	**KT-M25** 207603	**KT-M32** 207604

. . . also for use in the Main Bus Bar Top (BXT) system

F3A Flanges

VT28210 | VT17407 | VT09208 | VT17507 | VT17307 | VT17607 | VT17707 | VT17807 | VT17207



Flange cap ventilated	Blank plate	Blank plate sheet steel	4xM16, 6xM25/16, 8xM32/20	2xM20, 8xM25/16, 4xM32/20, 1xM50/32	2xM16, 12xM20, 2xM40/25, 2xM50/32	24xM16, 13xM20	2 grommets for cables up to Ø 70mm	Sponge-rubber flange 40 cables Ø 10-13 mm 4 cables Ø 17-21 mm 2 cables Ø 27-30 mm
Article No. per unit unit = 1 pc.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
F3A-V 149194	**F3A-0** 074182	**F3A-XP** 113426	**F3A-4** 081301	**F3A-8** 091468	**F3A-12** 076555	**F3A-34** 078928	**F3A-KTD** 083674	**F3A-D** 010145

UFK Flanges

VT34510 | VT34710 | VT35010 | VT34810 | VT35110 | VT34910



Fixing set for UFK flanges	Adapter frame allowing to fix a UFK flange in a cut-out for F3A flanges	Flange 8xM20, 6xM25 5xM32, 7xM40	Flange 4xM16, 32xM20 4xM25, 3xM40	Flange 6xM16, 12xM20 15xM25, 3xM32 3xM40	Flange 6xM16, 1xM20 4xM25, 5xM32 3xM50/63
Article No. per unit unit = 1 set	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XBFUK 150665	**UFK-AFP-F3A** 150642	**UFK1** 150661	**UFK3** 150662	**UFK3** 150663	**UFK4** 150664

Locks and Lock Mechanisms

N8199 | N8199 | Vt12816 | Vt12316 | wa_vt69413 | Vt12116 | VT04207 | VT27509



Extension set for door mounting (section-high) on the rear section	Profile half cylinder 10/30 single-door locking 1 key	Profile half cylinder 10/30 multi-door locking 3 keys	Reserve-schlüssel single-door locking	Keyplate for 3 mm Two-way Keybit	Clip-down handle with push-button operation	Clip-down handle with push-button operation (old execution)	Closure point frame (plastic version)	Spare parts closure 4 pcs. frame-lock-parts 5 pcs. hinges complete 4 pcs. rod guides	Fixing bracket for door contact switch
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 3 pcs.	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 4 pcs.	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
XAH-BACK 195600	**PHZ-E10/30-GS** 138574	**PHZ-E10/30-VS** 138575	**KEY-E10/30-GS** 138576	**XALKP-3MM-N** 187342	**XALP-N** 187343	**XALP-OLD** 189596	**XELP-N** 187344	**XNSPS** 107989	**XAGGCB** 126017

Note

* Finish in special RAL colour

. . . also for use in the Main Bus Bar Top (BXT) system

Paint, Door profile

VT12208



VT09405



wa_vt78113



Spray paint RAL 7035	Repair paint RAL 7035	Door profile H = 600 mm for fixing cable ducts	Door profile H = 2000 mm for fixing cable ducts
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 2 pcs.	Article No. per unit unit = 1 pc.
XAFS7035 101401	**XAFL7035** 101402	**XAGD06** 116459 122623*	**BPZ-TP-20** 119222

Steel clip, Copper clip, Terminal board

wa_vt58713



wa_vt58613



VT16514



Steel clip (equal to copper clips)	Copper clip 3 mm thick	Copper clip 10 mm thick 30 mm wide	Copper clip 10 mm thick 50 mm wide	Copper clip 10 mm thick 60 mm wide	Copper clip 10 mm thick 80 mm wide	Copper clip 10 mm thick 100 mm wide	Terminal board 30x30
Article No. per unit unit = 50 pcs.	Article No. per unit unit = 50 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 3 pcs.
XNNSB 141875	**XNNCB** 141852	**XNNCD** 141853	**XNNCD50** 141855	**XNNCD60** 141856	**XNNCD80** 141857	**XNNCD100** 141854	**SAKS10CU** 151295

Pressure plate for Cu-strips

VT34410



Pressure plate for Cu-strips 11x21x10	Pressure plate for Cu-strips 10x16x0,8
Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.
XNSPP-11X21X10 144602	**XNSPP-10X16X08** 144603

Note

* Finish in special RAL colour

. . . also for use in the Main Bus Bar Top (BXT) system

Set of sealing plugs, xEnergy Main Brand

VT34610



wa_vt16614



Set of sealing plugs 10.5 mm = 50 pcs. 5.5 mm = 50 pcs.	xEnergy Main Brand
Article No. per unit unit = 100 pcs.	Article No. per unit unit = 1 pc.
XNIK-SPARE 134486	**XNS-BRAND** 178072

. . . also for use in the Main Bus Bar Top (BXT) system

Edge protection

- For steel sheet thickness up to max. 1.6 mm

VT12614



Edge protection KG016
Article No. per unit unit = 10 m
XAK16 172203

Isolator

VT00912



Isolator M10 H = 50 mm	Isolator M12 H = 50 mm
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
XNNIP-50-M10 179779	**XNNIP-50-M12** 167559

. . . also for use in the Main Bus Bar Top (BXT) system

Connection terminals

wa_sg02913



Including label tags for terminals of type U, V, W - X, Y, Z - L1, L2, L3 - T1, T2, T3 - PE, N, PEN.
External connection for round or sector-shaped conductors, other end for a flat Cu strip (Cu bar).
Suitable for copper and aluminium conductors.
Types ...BR for round or sector-shaped cable connection on both ends.

	1-pole Article No. per unit unit = 1 set	3-pole Article No. per unit unit = 1 set	4-pole Article No. per unit unit = 1 set	5-pole Article No. per unit unit = 1 set	1-pole not suitable for Cu strip or Cu bar Article No. per unit unit = 1 set
I_e = 160 A	**K95/1N** 010773	**K95/3** 025017	**K95/4** 027390	**K95/5** 029763	**K95/1N/BR** 012336
I_e = 250 A	**K150/1** 089085	**K150/3** 032136	**K150/4** 034509	**K150/5** 036882	**K150/1/BR** 014709
I_e = 400 A	**K240/1** 091458	**K240/3** 039255	**K240/4** 041628	**K240/5** 044001	**K240/1/BR** 017082
I_e = 630 A	**K2X240/1** 093831	**K2X240/3** 046374	**K2X240/4** 048747	**K2X240/5** 051120	**K2X240/1/BR** 019455

Conversion Kits for Connection Terminals (for one conductor)

Can be used for one conductor. For conversion from a flat strip to a cable connection.

VT10408



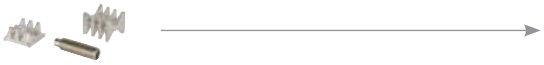
For K95/... I_e = 160 A	For K150/... I_e = 250 A	For K240/... I_e = 400 A	For K2X240/... I_e = 630 A
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
D-K95 020277	**D-K150** 022650	**D-K240** 025023	**D-2X240** 027396

. . . also for use in the Main Bus Bar Top (BXT) system

Conversion Kits for Connection Terminals (for one Auxiliary Conductor)

Can be used for one auxiliary conductor. M4 screw with thrust washer. Cross section of connections 0.5 to 2.5 mm².

VT10408

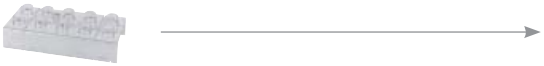


For K95/... and K150/...	For K240/...	For K2X240/...
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
HK-K95-K150 001916	**HK-K240** 098585	**HK-K2X240** 010785

Terminal Covers 5-pole

Incl. warning sign. According to DIN (lightning flash symbol). By splitting the block, you will get terminal covers for 3 or 4 poles.

wa_vt23613



For K95/...	For K150/...	For K240/...	For K2X240/...
Article No. per unit unit = 4 pcs.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
H-K95/5 036888	**H-K150/5** 039261	**H-K240/5** 041634	**H-K2X240/5** 044007

Cable Ducts screw-fixed

Delivery length: 1500 mm

VT08309, VT08709



Width = 34 mm Height = 37 mm	Width = 34 mm Height = 63 mm	Width = 73 mm Height = 63 mm
Article No. per unit unit = 60 pcs.	Article No. per unit unit = 40 pcs.	Article No. per unit unit = 20 pcs.
KL25/35 012531	**KL25/60** 017277	**KL60/60** 029142

. . . also for use in the Main Bus Bar Top (BXT) system

Cable Ducts self-adhesive

Delivery length: 650 mm. Ambient temperature max. +55 °C.

VT08309, VT08709



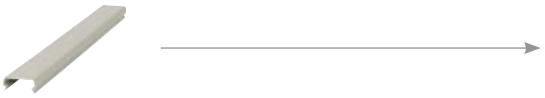
Width = 34 mm
Height = 37 mm

Article No. per unit unit = 50 pcs.
KL25/35K 014904

Cover for Cable Duct

Delivery length: 1500 mm. Delivered as a spare part.

VT08709



Width = 34 mm Height = 14 mm	Width = 73 mm Height = 14 mm
Article No. per unit unit = 60 pcs.	Article No. per unit unit = 40 pcs.
KD25 019649	**KD60** 024395

Universal Conductor Connection Terminal 10 mm

With integrated retention spring, captive terminal screw. For 10 mm thick flat rails.

VT13806 VT13706 VT13606 VT13506



16 mm² I_e = 180 A	35 mm² I_e = 270 A	70 mm² I_e = 400 A also for double T-profile	120 mm² I_e = 440 A also for double T-profile
Article No. per unit unit = 100 pcs.	Article No. per unit unit = 50 pcs.	Article No. per unit unit = 25 pcs.	Article No. per unit unit = 25 pcs.
AKU16/10 107191	**AKU35/10** 107192	**AKU70/10** 107193	**AKU120/10** 107194

. . . also for use in the Main Bus Bar Top (BXT) system

Cable Grommets

For a wall thickness from 2 to 8 mm. RAL 7035. Soft PVC, cadmium and lead-free. IP66, with cable insertion from the bottom.

VT33710



PG21 Drill hole diameter 29.5 mm Kabelaussendurchmesser 12.5-20 mm	PG42 Drill hole diameter 55 mm Kabelaussendurchmesser 18-47 mm
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
KT21 026777	**KT42** 038642

Blind Plug

RAL 7035. IP67. For diameter 22.5 mm.

01093088_0



PG16
Article No. per unit unit = 50 pcs.
M22-M 216388

Cable Tie Wraps

VT05111



Length = 98 mm	Length = 140 mm	Length = 2005 mm
Article No. per unit unit = 1000 pcs.	Article No. per unit unit = 1000 pcs.	Article No. per unit unit = 100 pcs.
ITB1 083550	**ITB2** 085923	**ITB3** 088296

. . . also for use in the Main Bus Bar Top (BXT) system

DIN Rail

When used as a PE conductor, the short-circuit strength corresponds to a 16 mm² Cu conductor. Delivery length = 2 m.

VT07310



DIN Rail

Article No.
per unit
unit = 20 pcs.

TS35X7,5
053030

Mounting Brackets inclined

For mounting TS35X7,5 or TS35X15 support rails in an inclined position. Sheet steel, zinc-plated.

VT16310



Mounting Brackets inclined

Article No.
per unit
unit = 100 pcs.

TS1-BRA-CS
138772

Cable guidance clips

Cable holder with fixing anchor (halogen-free). Drill hole for fixing = Ø 4.7 mm. Max. number of cables in a bundle = 20 x 11 mm.

VT01112



Cable guidance clips

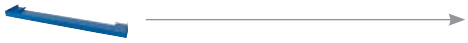
Article No.
per unit
unit = 100 pcs.

XACACLIP
166691

. . . also for use in the Main Bus Bar Top (BXT) system

Design strips - rain top

VT04111



To reach IP31 with drawers in test position or in open position you need to use a protruding design strip (rain shield). So the drawers are protected against vertical dripping water. Without a rain shield you will reach IP30.

Width = 1000 mm	Width = 1200 mm
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
XSDR10-X1-B 155542	**XSDR12-X1-B** 155543

. . . also for use in the Main Bus Bar Top (BXT) system

Components for 5000 A applications

• Accessories ..... Page xx
• Frame parts ..... Page xx
• Plinth ..... Page xx
• Side panels ..... Page xx
• Top panel/Bottom panel ..... Page xx
• Partition/Internal separation ..... Page xx

Frames

- Come with blue design strip

VT13310



VT00811



Section depth mm	Frame depth 200 mm for 5000 A application consists of top and bottom element Article No. per unit unit = 1 set	Vertical profiles for 5000 A application consists of 4 profiles Article No. per unit unit = 1 set
425	**XSFB0402** 150464 151686*	**XSFH20-I-D** 150482 151694*
600	**XSFB0602** 150465 151687*	
800	**XSFB0802** 150466 151688*	
850	**XSFB08502** 150467 151689*	
1000	**XSFB1002** 150468 151690*	
1100	**XSFB1102** 150469 151469*	
1200	**XSFB1202** 150480 151692*	
1350	**XSFB13502** 150481 151693*	

VT00111



wa_vt65713



Section depth mm	Corner section extension set 1050x1050 for 5000 A application application to fit on standard corner section Article No. per unit unit = 1 set	Add-on frame Width 150 mm for 5000 A application Article No. per unit unit = 1 pc.
1000	**XSC200808-E10** 150522	**XSAF2000-150-1000** 150493 151705*

Note * Finish in special RAL colour

Plinth

- Consist of: 4x corner element, 2x side plate, 2x front cover/rear cover

VT08106



wa_vt66713



wa_vt69513



Section depth mm	Plinth Height 100 mm Section depth 1000 mm for 5000 A application Article No. per unit unit = 1 pc.	Plinth Height 200 mm Section depth 1000 mm for 5000 A application Article No. per unit unit = 1 pc.	Plinth for corner sections Height 100 mm Section depth 1000 mm Article No. per unit unit = 1 pc.	Plinth for corner sections Height 200 mm Section depth 1000 mm Article No. per unit unit = 1 pc.
425	**XAP010410** 150496 151707*	**XAP020410** 150504 151715*	-	-
600	**XAP010610** 150497 151708*	**XAP020610** 150505 151716*	-	-
800	**XAP010810** 150498 151709*	**XAP020810** 150506 151717*	-	-
850	**XAP0108510** 150499 151710*	**XAP0208510** 150507 151718*	-	-
1000	**XAP011010** 150500 151711*	**XAP021010** 150508 151719*	**XAP011010C** 150512 151723*	**XAP021010C** 150513 151724*
1100	**XAP011110** 150501 151712*	**XAP021110** 150509 151720*	-	-
1200	**XAP011210** 150502 151713*	**XAP021210** 150510 151721*	-	-
1350	**XAP0113510** 150503 151714*	**XAP0213510** 150511 151722*	-	-

Frame width mm	Plinth for add-on frames Height 100 mm Width 150 mm Article No. per unit unit = 1 pair	Plinth for add-on frames Height 200 mm Width 150 mm Article No. per unit unit = 1 pair
150	**XAP01AF150** 150491 151703*	**XAP02AF150** 150492 151704*

Note * Finish in special RAL colour

Side panels

VT07706



VT07906



Section depth mm	Side panel up to IP55	Separation panel section/section
	Article No. per unit unit = 2 pcs.	Article No. per unit unit = 1 pc.
200	**XAW2002** 150494 151706*	**XPSS2002** 150495

Note * Finish in special RAL colour

Top panels/Bottom panels

wa_vt25513

Section depth mm	Top panel/Bottom panel closed 200 mm depth up to IP55 for 5000 A application Article No. per unit unit = 1 pc.
425	**XSPTC0402** 150483 151695*
600	**XSPTC0602** 150484 151696*
800	**XSPTC0802** 150485 151697*
850	**XSPTC08502** 150486 151698*
1000	**XSPTC1002** 150487 151699*
1100	**XSPTC1102** 150488 151700*
1200	**XSPTC1202** 150489 151701*
1350	**XSPTC13502** 150490 151702*

Partition/Internal separation

wa_vt71313



Section depth mm	Partition extension for 5000 A application busbar area/main busbar area (suitable for IZM and NZM) Article No. per unit
425	**XPIBCB-H-04019** 150514
600	**XPIBCB-H-06019** 150515
800	**XPIBCB-H-08019** 150516
1000	**XPIBCB-H-10019** 150518
1100	**XPIBCB-H-11019** 150519
1200	**XPIBCB-H-12019** 150520
1350	**XPIBCB-H-135019** 150521

Note * Finish in special RAL colour

Accessories for Outgoing Sections: Continuous Mounting Plate/Partition for Cable Connection Area in an Outgoing Section

For fixing terminals/contact blocks in the cable connection area; it also serves as a partition between cable connection area and main busbar area. For outgoing sections in a 5000 A system (with an additional main busbar area) using this type of partitions is compulsory.

VT01611



Section width mm	Switchgear area width mm	Cable connection area width mm	NZM outgoing sections Form 2/4 Article No. per unit unit = 1 set	Switch fuse unit section without door to the switchgear area Article No. per unit unit = 1 set	Removable design sections in 2/4 and SSL switch fuse unit sections, with door to switchgear area Article No. per unit unit = 1 set
600	425	172	**XPFBCB172** 158606	-	-
800	425	372	**XPFBCB372** 158607	-	-
	600	197	**XPFBCB197** 158608	-	-
1000	600	397	**XPFBCB397** 158609	-	-
1200	600	597	**XPFBCB597** 158610	-	-
1000	600	385	-	**XPSBCB385** 158611	-
1200	600	585	-	**XPSBCB585** 158613	-
1000	600	320	-	-	**XPSBCB320** 158612
1200	600	520	-	-	**XPSBCB520** 158614

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The International Protection Rating of electric components through enclosures, covers and similar measures according to IEC/EN 60529 (VDE 0470 Part 1)

The level of protection of electric components through suitable encapsulation consists of the letters IP followed by two digits. The first digit indicates the level of protection against unintentional contact and ingress of solid foreign bodies. The second digit indicates the protection of the equipment inside the enclosure against harmful ingress of water.

Protection against unintentional contact and ingress of solid foreign bodies

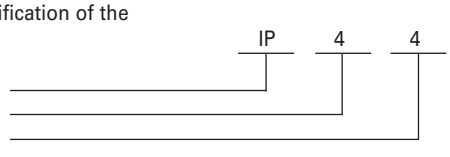
First digit	**Protected against**	Explanation
0	Not protected	No particular protection of individuals against contact with live or movable parts. No protection against ingress of solid foreign objects
1	Protected against object size ≥ 50 mm	Protected against access of the back of a hand to hazardous parts. The access probe, a ball of 50 mm diameter, needs to be placed in sufficient distance to hazardous parts. The object probe, a ball of 50 mm diameter, must not be able to fully penetrate.
2	Protected against object size ≥ 12,5 mm	Protected against access to hazardous parts with a finger. The subdivided test finger of 12 mm diameter and 80 mm length must be at a safe distance from hazardous parts. The object probe, a ball of 50 mm diameter, must not be able to fully penetrate.
3	Protected against object size ≥ 2,5 mm	Protected against access to hazardous parts with a tool. The access probe of 2.5 mm diameter must not be able to penetrate. The object probe of 2.5 mm diameter must not be able to penetrate at all.
4	Protected against object size ≥ 1 mm	Protected against access to hazardous parts with a piece of wire. The access probe of 1 mm diameter must not be able to penetrate. The object probe of 1 mm diameter must not penetrate at all.
5	Protected against dust deposit	Protected against access to hazardous parts with a piece of wire. The access probe of 1 mm diameter must not be able to penetrate. Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment.
6	Protected against ingress of dust Dust tight	Protected against access to hazardous parts with a piece of wire. The access probe of 1 mm diameter must not be able to penetrate. No ingress of dust.

Protection against harmful ingress of water

Second digit	**Protected against**	Explanation
0	Not protected	No particular protection.
1	Protected against vertically dripping water	Dripping water (vertically falling drops) shall have no harmful effect.
2	Protected against dripping water when tilted up to 15°	Vertically dripping water shall have no harmful effect when the enclosure is tilted at an angle of up 15° from its normal position on either side of the vertical line.
3	Protected against spraying water	Water falling as a spray at any angle up to 60° from the vertical line shall have no harmful effect.
4	Protected against splashing water	Water splashing against the enclosure from any direction shall have no harmful effect.
5	Protected against water jets	Water projected by a nozzle against the enclosure from any direction shall have no harmful effect.
6	Protected against powerful water jets	Water projected in powerful jets against the enclosure from any direction shall have no harmful effect.
7	Protected against occasional immersion	Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time.
8	Protected against permanent immersion	The equipment is suitable for continuous immersion in water under conditions which shall be agreed between the manufacturer and the user. The conditions must be more difficult than in code number 7.
9K *)	Protected against high-pressure or steam-jet cleaning	Water coming from any direction under increased pressure shall have no harmful effect. Water pressure 100 bar. Water temperature 80 °C.

*) This code number is defined in the DIN 40050-9 standard

Example for the specification of the degree of protection:



Overcurrent protection of cables and conductors

Minimum cross-sections for protective conductors according to DIN VDE 0100-510 (1987-06, t), DIN VDE 0100-540 (1991-11)

	Protection conductor or PEN-conductor[1]		Protection conductor[3] separately laid		
Phase conductor mm²	Insulated high-voltage lines mm²	0.6/1-kV-cable with 4 conductors mm² Cu	Protected mm² Al	mm² Cu	Unprotected[2] mm²
up to 0.5	0.5	–	2.5	4	4
0.75	0.75	–	2.5	4	4
1	1	–	2.5	4	4
1.5	1.5	1.5	2.5	4	4
2.5	2.5	2.5	2.5	4	4
4	4	4	4	4	4
6	6	6	6	6	6
10	10	10	10	10	10
16	16	16	16	16	16
25	16	16	16	16	16
35	16	16	16	16	16
50	25	25	25	25	25
70	35	35	35	35	35
95	50	50	50	50	50
120	70	70	70	70	70
150	70	70	70	70	70
185	95	95	95	95	95
240	–	120	120	120	120
300	–	150	150	150	150
400	–	185	185	185	185

[1] PEN-conductor ≥ 10 mm² Cu or 18 mm² Al.

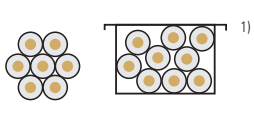
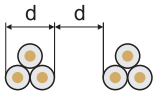
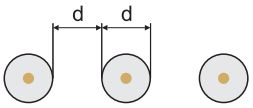
[2] Unprotected laying of aluminium conductors is not authorized.

[3] As of a phase conductor cross-section of ≥ 95 mm² we recommend you preferably use blank conductors.

Rated motor currents

Motor capacity			230 V			400 V		
			Rated motor current	Fuse Direct start	Y/Δ	Rated motor current	Fuse Direct start	Y/Δ
kW	cos φ	η [%]	A	A	A	A	A	A
0.06	0.7	58	0.37	2	–	0.21	2	–
0.09	0.7	60	0.54	2	–	0.31	2	–
0.12	0.7	60	0.72	4	2	0.41	2	–
0.18	0.7	62	1.04	4	2	0.6	2	–
0.25	0.7	62	1.4	4	2	0.8	4	2
0.37	0.72	66	2	6	4	1.1	4	2
0.55	0.75	69	2.7	10	4	1.5	4	2
0.75	0.79	74	3.2	10	4	1.9	6	4
1.1	0.81	74	4.6	10	6	2.6	6	4
1.5	0.81	74	6.3	16	10	3.6	6	4
2.2	0.81	78	8.7	20	10	5	10	6
3	0.82	80	11.5	25	16	6.6	16	10
4	0.82	83	14.8	32	16	8.5	20	10
5.5	0.82	86	19.6	32	25	11.3	25	26
7.5	0.82	87	26.4	50	32	15.2	32	16
11	0.84	87	38	80	40	21.7	40	25
15	0.84	88	51	100	63	29.3	63	32
18.5	0.84	88	63	125	80	36	63	40
22	0.84	92	71	125	80	41	80	50
30	0.85	92	96	200	100	55	100	63
37	0.86	92	117	200	125	68	125	80
45	0.86	93	141	250	160	81	160	100
55	0.86	93	173	250	200	99	200	125
75	0.86	94	233	315	250	134	200	160
90	0.86	94	279	400	315	161	250	200
110	0.86	94	342	500	400	196	315	200
132	0.87	95	401	630	500	231	400	250
160	0.87	95	486	630	630	279	400	315
200	0.87	95	607	800	630	349	500	400
250	0.87	95	–	–	–	347	630	500
315	0.87	96	–	–	–	544	800	630
400	0.88	96	–	–	–	683	1000	800
450	0.88	96	–	–	–	769	1000	800
500	0.88	97	–	–	–	–	–	–
560	0.88	97	–	–	–	–	–	–
630	0.88	97	–	–	–	–	–	–

Max. operating current allowed and power loss of insulated conductors according to EN 60890

	Max. conductor temperature allowed is 70 °C											
	 [1]											
	Air temperature inside the enclosure, around the conductor											
	35 °C		55 °C		35 °C		55 °C		35 °C		55 °C	
Cross-section (Cu)	Operating current	Power loss[2]	Operating current	Power loss[2]	Operating current	Power loss[2]	Operating current	Power loss[2]	Operating current	Power loss[2]	Operating current	Power loss[2]
mm²	A	W/m	A	W/m	A	W/m	A	W/m	A	W/m	A	W/m
1.5	12	2.1	8	0.9	12	2.1	8	0.9	12	2.1	8	0.9
2.5	17	2.5	11	1.1	20	3.5	12	1.3	20	3.5	12	1.3
4	22	2.3	14	1.1	25	3.4	18	1.8	25	3.4	20	2.2
6	28	2.8	18	1.2	32	3.7	23	1.9	32	3.7	25	2.3
10	38	3.0	25	1.3	48	4.8	31	2.0	50	5.2	32	2.1
16	52	3.7	34	1.6	64	5.6	42	2.4	65	5.8	50	3.4
25					85	6.3	55	2.6	85	6.3	65	3.7
35					104	7.5	67	3.1	115	7.9	85	5.0
50					130	7.9	85	3.4	150	10.5	115	6.2
70					161	8.4	105	3.6	175	9.9	149	7.2
95					192	8.7	125	3.7	225	11.9	175	7.2
120					226	9.6	147	4.1	250	11.7	210	8.3
150					275	11.7	167	4.3	275	11.7	239	8.8
185					295	10.9	191	4.6	350	15.4	273	9.4
240					347	12.0	225	5.0	400	15.9	322	10.3
300					400	13.2	260	5.6	460	17.5	371	11.4

Conductors for auxiliary power circuits

					Cross-section mm²
0.12	2.6	1.2	1.7	0.5	0.4
0.14	2.9	1.3	1.9	0.6	-
0.20	3.2	1.1	2.1	0.5	-
0.22	3.6	1.3	2.3	0.5	0.5
0.30	4.4	1.4	2.9	0.6	0.6
0.34	4.7	1.4	3.1	0.6	0.6
0.50	6.4	1.8	4.2	0.8	0.8
0.56	6.4	1.6	4.2	0.7	-
0.75	8.2	1.9	5.4	0.8	1.0
1.00	9.3	1.8	6.1	0.8	-

[1] Any way of laying, 6 wires at 100% load at the same time.
[2] Single length.

In case of less conductor load, you can calculate as follows:

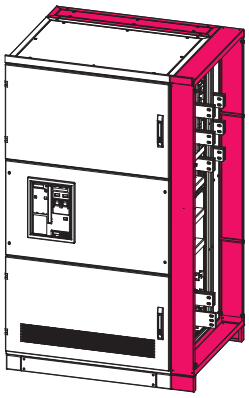
$$P = P_n \left(\frac{I}{I_n}\right)^2$$

P Power loss in W/m
I Conductor current (load)
I_n Operating current
P_n Power loss at I_n

XP = Power sections

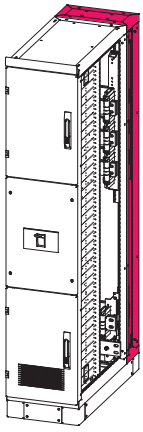
Incoming supplies, outgoers and couplings up to 5000 A

- Cable connection from the top and bottom
- Busbar positions rear-mounted - bottom/top mounted or running under the top panel
- Section height 2000 mm / Section depth 400/600/800/1000 (1000 = 800+200) mm
- Internal separations up to Form 4



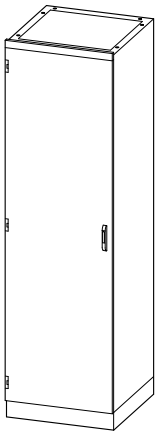
Air circuit breakers IZM and IZMX

- widths of 425/600/800/1000/1100/1200/1350 mm
- fixed or withdrawable
- 3 or 4 poles
- with a second busbar suitable as a coupling section
- 630 - 5000 A
- Form 4
- IP31, IP55 with IZM-XDT protective cover
- suitable for drill-free cable connection, can be installed at the top or bottom
- to be operated from outside
- suitable for switchgear with remote operation



Compact circuit breakers NZM3/4 in Form 4

- widths of 425/600/800/1000 mm
- fixed or withdrawable
- 3, 4 or 3+TPN poles
- with a second busbar suitable as a coupling section
- 250 - 630 A (NZM3)
- 630 - 1600 A (NZM4)
- Form 4
- IP31, IP42, IP55
- suitable for drill-free cable connection, can be installed at the top or bottom
- to be operated from outside
- installation of two switching devices in one section is possible
- suitable for switchgear with remote operation

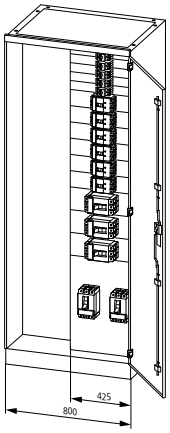


Compact circuit breakers NZM4 in Form 2

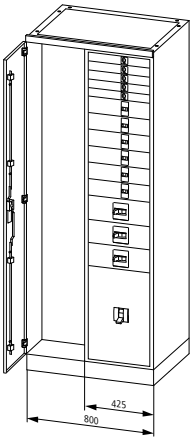
- widths of 425/600/800 mm
- fixed or withdrawable
- 3 or 4 poles
- with a second busbar suitable as a coupling section
- 630 - 1600 A
- Form 2
- IP31/55
- suitable for drill-free cable connection, can be installed at the top or bottom
- to be operated behind the door as high as the section
- suitable for switchgear with remote operation

XF = Outgoing secions - Fixed design

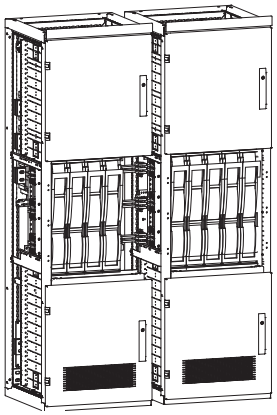
- Outgoers with circuit breakers PKZ, NZM, FAZ, switch fuse units and fuse switch disconnectors up to 630 A
- for busbar positions at the rear - top/bottom or running under the top panel
- Section height 2000 mm / Section depth 600/800 mm



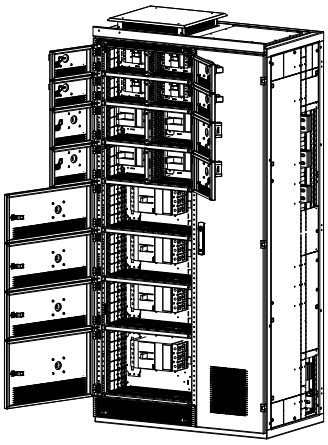
Outgoing sections for outgoers up to 630 A in Form 2
- widths of 800/1000/1200 mm
- module widths of 425 and 600 mm
- 3 or 4 poles
- Form 2
- IP31/55
- consistent mounting height of switchgear
- circuit breakers suitable for use with plug base
- single-wing section door up to 800/1000 mm, 2-wing door for 1200 mm
- suitable for switchgear with remote operation
- operation behind the door
- dropper bar to be selected from 800-1600 A
- separate set-up in 2 separate sections is possible, e.g. 600 mm/600 mm. Switchgear area/cable connection area.



Outgoing sections for fixed outgoers up to 630 A in Form 4
- widths of 800/1000/1200 mm
- module widths of 425 and 600 mm
- each module comes with its own front panel
- 3 or 4 poles
- Form 4
- IP31/55
- circuit breakers suitable for use with plug base - NZM3 with plug base ... in 800 mm deep sections
- suitable for switchgear with remote operation
- separate doors to switchgear area and connection area
- transparent doors (glass doors) are possible
- dropper bar to be selected from 800-1600 A
- separate set-up in 2 separate sections is possible, e.g. 600 mm/600 mm. Switchgear area/cable connection area.

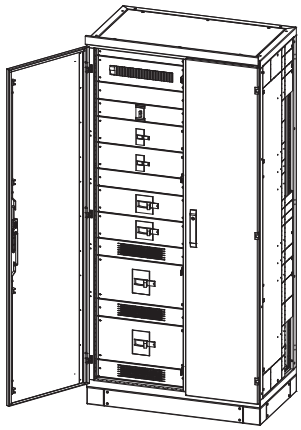


Outgoing section for fuse strips up to 630 A with section dropper bar up to 1600-3200 A (SL-I)
- widths of 600/800/1000 mm
- dropper bar to be selected from 800-3200 A
- distribution busbar: simple busbars or double-rail system
- Form 2
- fuse strips in vertical position
- IP31/ IP55 with door as high as the section
- outgoers are possible downwards and upwards
- up to 40% Cu savings
- operation from outside or behind the door
- quick and easy mounting of fuse strips thanks to the double-bar system



Box solution
- widths of 425/600/800/1000/1200 mm
- module widths of 425/600/800 mm
- each module comes with its own door to the switchgear area
- 3, 4 or 3P+N-poles
- fixed, plug-in or withdrawable
- suitable for switchgear with remote operation
- to be operated behind the door or with rotary door coupling handle
- dropper bar to be selected from 800-1600 A
- empty and module panels for the set-up of outgoers (FI, FAZ ...)
- up to Form 4b, Type 6/7
- IP31/55

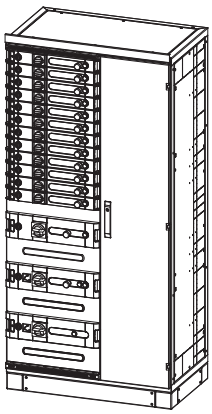
XR-Mix = Outgoing sections - Plug-in technology, Fixed design, Box Solution, PIFT



Outgoing sections - Removable (plug-in module) design

- widths of 1000/1200 mm
- module width 600 mm
- can be equipped to meet requirements of Form 2 to 4 / up to Type 7
- 3 or 4 poles
- IP31/42/55
- dropper bar selectable from 800-1600 A
- Short-circuit current/dropper bar I_{cw}: up to 80 kA
- finger-safe cover for dropper bars
- consistently equal height of mounting plates with fixed installation
- in Form 2 section door in 1 piece (for 800/1000 mm, for 1200 mm in two pieces)
- to be operated behind the door or with rotary door coupling handle
- can be equipped with fixed modules, removable modules, PIFT modules and Box Solution
- same removable modules for Form 2+4
- Energy modules (with circuit breakers) can be expanded/combined with universal modules
- modules can be replaced while energized
- modules can be combined (fixed/removable design/PIFT)
- suitable for switchgear with remote operation

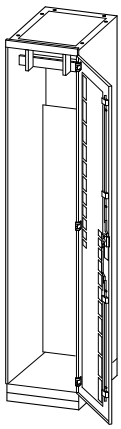
XW = Outgoing sections - Withdrawable design

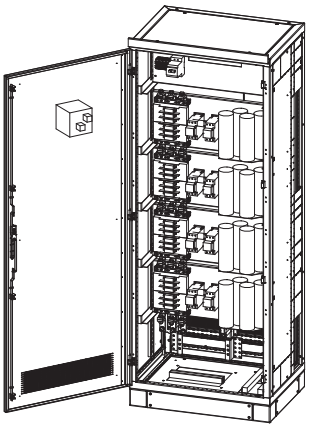


Outgoing sections - withdrawable design

- widths of 1000/1200 mm
- section depths of 600/800/1000 mm
- 3 or 4 poles
- rated current of dropper bars I_n=1000 or 2000 A / 3 or 4 poles
- max. short-circuit current I_{CW}=80 kA
- IP31/55
- shelf-boards can be mounted at individual heights, depending on the size of the modules
- max. height of dropper bar available to accommodate equipment = 1875 mm
- cable connection area, fully sealed off from the switchgear area, main busbar area and dropper bar area
- dropper bar at the front fully sealed off thanks to self-closing shutters
- drawers available:
  power outgoers up to 630 A
  direct starters from 0.06-132 kW
  reverse starters from 0.06-132 kW
  star-triangle starters from 5.5-110 kW
- outgoers from 132 to 250 kW are executed as fixed design solutions

XG = Empty sections for General equipment

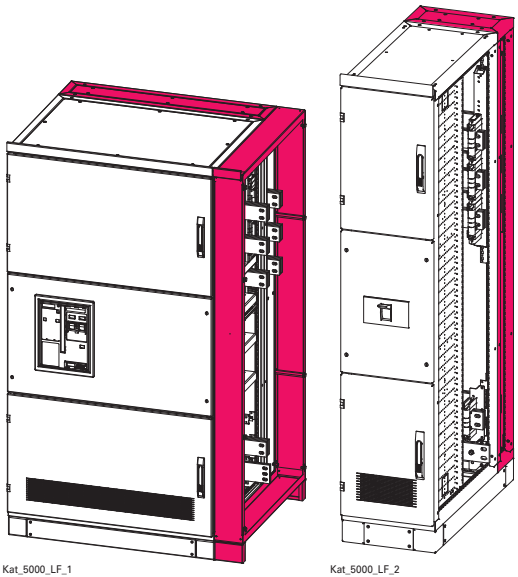




Empty sections for individual mounting units

- fitting systems for modular installation devices (EP, Profi+ ...)
- individual mounting units fixed on mounting plates
- control technology - suitable for installation of mounting plates as high as the section, or of split ones
- Section height 2000 mm
- Section depth 400/600/800 mm
- section widths of425/600/800/850/1000/1100/1200/1350 mm
- IP31/55

System description 5000 A Solution



Kat_5000_LF_1 Kat_5000_LF_2

For 5000 A, the red-coloured parts are required in addition.

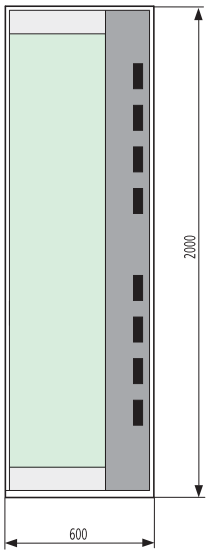
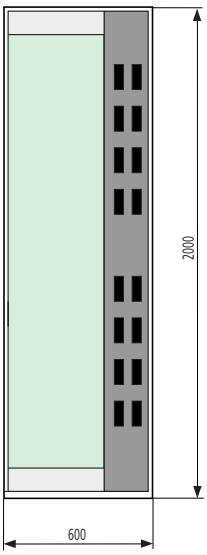
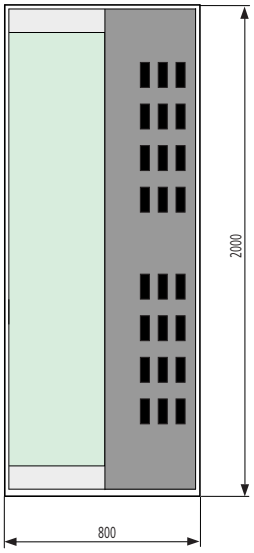
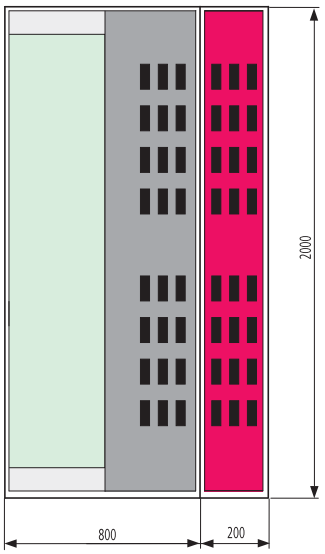
Up to 5000 A

Generally, all section variants can also be used for the 5000 A solution. In order to get the 5000 A at the main busbar, you need to add an extra 200 mm deep frame at the rear of the standard section (800 mm deep) so as to create the space necessary for a second main busbar track.

You may need to check if extra partitions are required!

System explanation see the page after the next one.

Main busbars and section depths

Busbar Rated current I_e (Cu cross-sections)	800 A (1 x 40 x 10 mm²) 1250 A (1 x 60 x 10 mm²)	1600 A (2 x 40 x 10 mm²) 2000 A (2 x 60 x 10 mm²) 2500 A (2 x 80 x 10 mm²) 3200 A (3 x 80 x 10 mm²)	4000 A (3 x 80 x 10 mm²)	5000 A 2x(3 x 80 x 10 mm²)
Rear-mounted (side view)				

Busbar area

Switchgear area

Additional busbar area for 5000 A

Grounding Concept

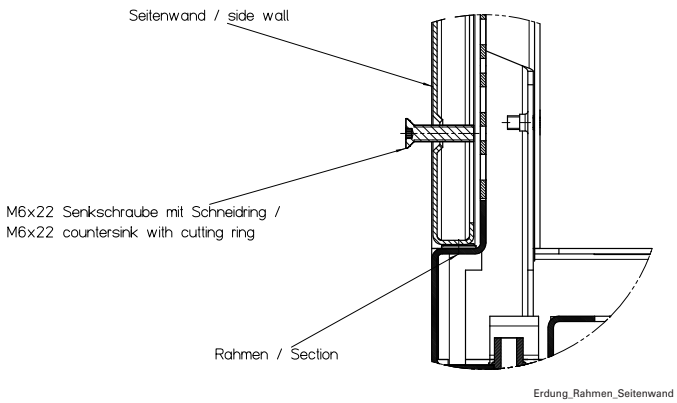
The equipotential bonding in the xEnergy Main switchboard cabinet system is based on several protective measures

1) Grounding thanks to fixing the grounding bar directly at the frame
2) Grounding thanks to ring-type tapping screws
3+4) Grounding thanks to a grounding cable
5) Grounding thanks to toothed washers

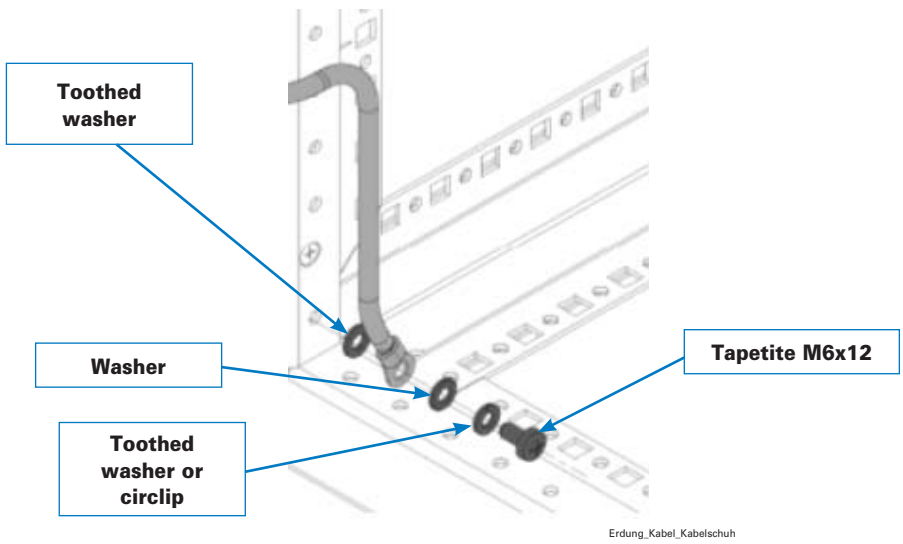
1) Grounding bar
The grounding bar is directly fixed at the frame with an XBSP carrier bracket no. 283872. Each bracket needs to be fixed with 3 self-tapping screws (Tapetite M6x12). This means that at least 2 of these fixing brackets are mounted in each cabinet, which is enough to establish a sufficient grounding connection to the frame. Should you wish to build cabinets without a grounding bar (e.g. general sections), the equipotential bonding has to be done directly at the grounding point of the frame (the grounding point is situated on the right side of the floor-standing group of the frame).

2) Paneling
All parts that are added and screw-fixed to the cabinet will be fixed with ring-type self-tapping screws. The cutting ring on the screws penetrates the coating of the paneling and creates a permanently conductive connection. This system of ground connection is used for "top and ground panels, rear and side panels as well as for connections of the base frame with vertical profiles".
If electrical equipment is installed on the side or rear panels, these panels need extra grounding through a wire. Each paneling element comes with its own grounding bolt welded to it. From that bolt a round Cu conductor establishes a connection to the frame structure, in accordance with the ratio of the cross-section of the external conductor of the additional electrical equipment.

Cross-section frame/side panel



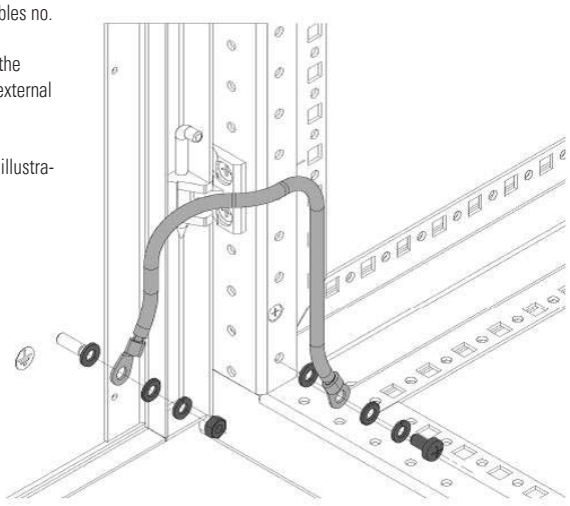
Arrangement/fixing of a ground connection by means of a cable and cable lug



3) Doors

According to the IEC 61439-1 standard a connection via the metal hinges would do. In order not to take any risk Eaton has opted for the safe method of using an additional grounding cable. Use a round Cu conductor to establish a connection from the grounding bolt on the door to the frame (pre-fabricated XNAE-18 grounding cables no. 141844 or factory-made grounding cables).
If electrical equipment is installed on doors where the external conductor needs to carry more than 25A, the equipotential bonding of the door must be in line with the ratio of the cross-section/rated current of the external conductor of the electrical equipment.

The grounding connection between the door and the frame has to be installed as shown in the following illustration.



Erdung_Erdungskabel

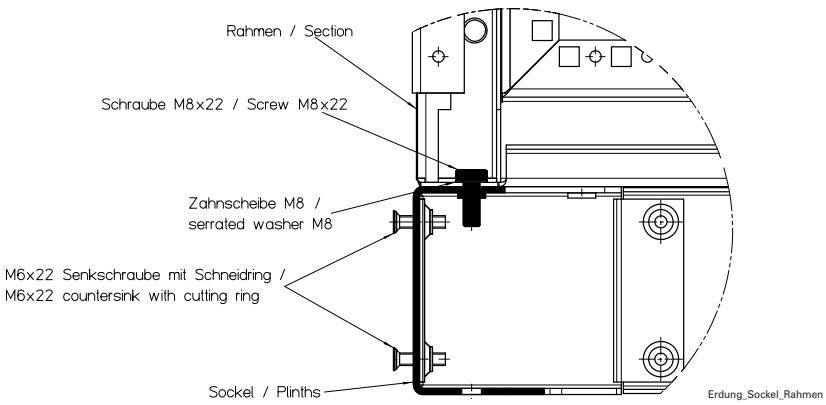
4) Equipment installed

Metal equipment installed in the cabinet system that has a screw-based connection to the frame will not need any additional grounding, e.g. installation frames for EP, Profi+ mounting struts, … And it is not necessary either to ground the cover frame separately. Here too, the screw-based mechanical connection will do to provide the equipotential bonding.
However, if you install equipment such as mounting plates, hang-type Profi+ fittings (with side mounting panel) or other equipment of no matter what finish they need to be connected to the grounding bar through the respective grounding connections.

5) Add-on equipment

Add-on equipment such as base plinths need to be connected to the frame using the M8x22 screws and the suitable M8 toothed washers included in the scope of delivery. The M8 toothed washer penetrates the paint coating of the frame elements and thus establishes a permanently conductive connection between the frame structure and the base plinth.

Cross-section of base plinth and frame



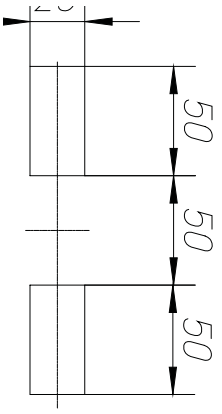
Erdung_Sockel_Rahmen

Locking System

Doors as high as the cabinet:
All doors as high as the cabinet are equipped with 3 mm two-way key bit locks and a complete system of rods as standard features. The locking points fixed at the frame are included in the respective scope of delivery. The door plate has 50/50/50 standard cut-outs which allow to fix it in the doors. The standard cut-outs make sure that every door can at any later point in time be equipped with an electronic locking system, for example.

The doors are delivered with a completely assembled locking system/door plate including a 3 mm two-way key-bit lock as well as hinges, locking bolts and screws.

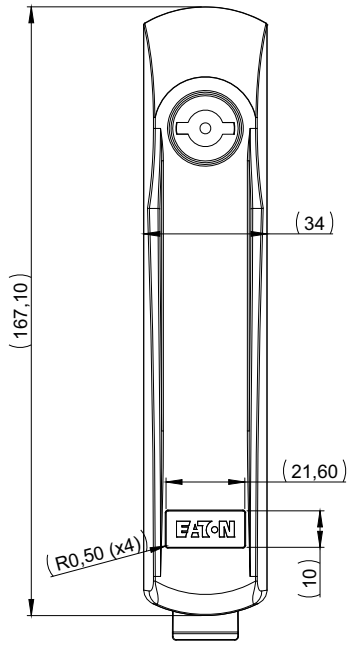
Door cut-out:



chnitt Tür xVTL

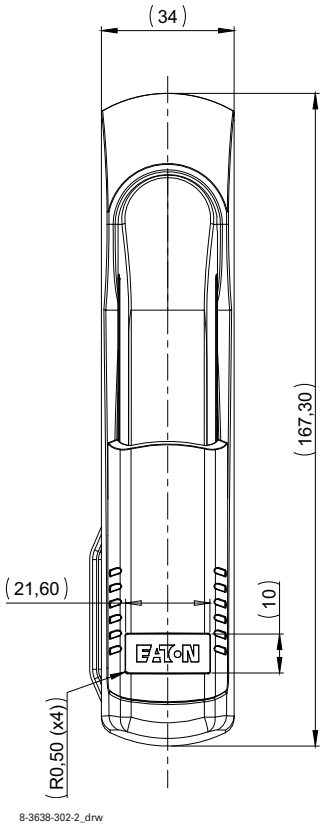
Ausschnitt xEnergy xVTL

Door plate:
Incl. a 3 mm two-way key-bit lock. Other lock inserts are available upon request.



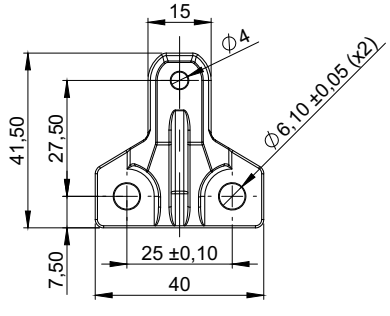
8-3638-302-4_drw

Clip-down handle:
- The clip-down handle is available as an accessory
- Standard activation by means of a push-button
- The push-button is protected against dust and dirt by a slidable cover cap
- Where necessary, the push-button insert can be replaced by semi-cylinder locks or other activation systems
- Delivery incl. screws

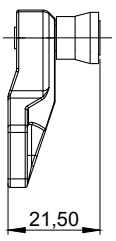


8-3638-302-2_drw

ing bolt (frame):
The locking bolts come in a package with the doors. Very massive and stable design. The locking bolts are equipped with brass rollers. They ensure a smooth locking process without frictions.



8-3638-315-1-1_drw

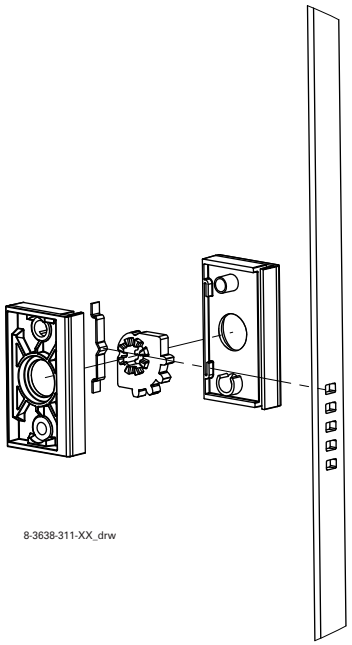


8-3638-315-1_drw

Technical description:

Features and properties:
- When the door gets locked, it is secured in X, Y and Z direction, so the door is pulled towards the frame, comparable to locking a safe.
- The rod-lock system transmits the force of the rods at the door in a linear way to the locking elements. The locking elements engage in the lock holders positioned at the frame.
- The lock holders include a rotary roller which ensures the smooth operation of the system. No weaving movement of the rods is required.
- Very firm and even pressure of the door against the frame and the enclosure sealing. No lateral shear forces can impact the sealing. This will extend its service life.
- Rod lock with spring-based engagement in the end position (a spring included in the lock box will engage in the respective end positions).

Lock box:



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Locking point:

The L-shaped locking element (red), which is placed in a form-fit way in the openings of the flat rod, is completely surrounded by the door-fixed part of the lock holder and allows for a perfect positioning of the rod at the door. So, the locking pin on a rotary bearing at the frame can easily and firmly lock.



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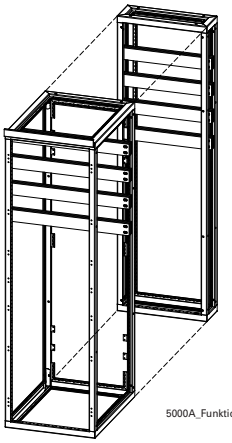
How 5000 A systems work

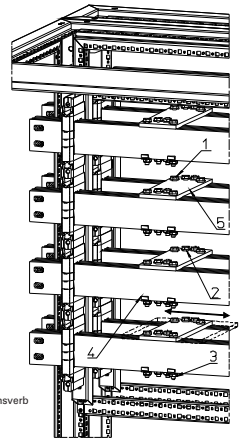

5000A_Funktion

General description of their way of working:

In order to connect 5000 A rated current to the main busbar in an xEnergy Main system, you need to add an extra frame of 200 mm section depth to a standard section of 800 mm depth. This measure applies to all options of the sections (XP, XF, XR, XW, XG).
The extra space is used to install the second main busbar track. This means that you need to install 2x (3x80x10) copper for the main busbar.

Current balancing connection for the main busbar:

For incoming supply/outgoing sections of 5000 A rated current (IZM63) you need to use special BAs (building instructions). With currents as high as that, the copper connections are guided from the switch over both tracks of the main busbar. So you do not need a special current balancing connection between the copper tracks.

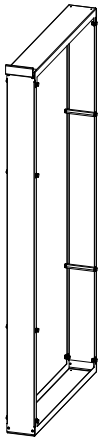


5000A_Ausgleichsverb

For incoming supply/outgoing sections up to a max. rated current of 5000 A, i.e. with XF, XR, XW, XG outgoing sections, you can use the standard BAs (building instructions).
In addition, you will have to install a current balancing connection between the two copper tracks of the main busbar in the above-mentioned section types (see fig.). These balancing conections can be placed anywhere on the main busbar tracks (depending on the different space conditions which vary according to the type of section and amperage used in each case).

Installation and assembly:

With 5000 A systems, a clearance of 700 mm is compulsory between the rear of the system and the wall of the distribution room. You will need this space to establish the electrical connections during installation and assembly, and later on to ensure access from the rear for service jobs on the main busbar system.
To make final on-site assembly work easier, you need to install a 150mm wide mounting frame between the sections. The front of this “intermediate frame“ is easy to take off, so you can work directly on the screw connections of the connection flaps, from the front, on the front track of the main busbar. To connect the rear track, you need to take off the rear part of the “intermediate frame“ so you can easily tighten/fix the rear transport separation of the rear main busbar.


5000A_Aufstellung

System description and assembling rules for Operation Voltage U_e = 500/525 V and 690 V

System xEnergy Main is tested up to U_e = 690 V (U_i = 1,000 V)

Main Busbar

Standard Busbar System is unchanged useable with U_e up to 690 V

Switchgear Devices

MCCB's need to be released for higher Voltage. NZM series offers special types (L-Types).
The tested and shared values for that special MCCB types are similar to the values at U_e = 415 V for I_{nc}.
I_{cc} = different ratings compared to 415 V (NZM-L2: 80 kA @ 690 V; NZM-L3: up to 80 kA @ 690 V; NZM-L4: up to 50 kA @ 690 V)

Exceptions of MCCB solutions which are not possible in U_e > 415 V.
Those are: XF-Twin Modules, XF-NZM4 Modules, XF-NZM1, XR-NZM1/2/4.

ACB's can be used for all voltages until U_e = 690 V.
Th e values are partly different with higher U_e > 415 V:
I_{cw} = same ratings as in 415 V
I_{cc} = different ratings compared to 415 V (IZMX16: 42 kA @ 690 V; IZM40: 75 kA @ 690 V; IZM63: 85 kA @ 690 V)
I_{nc} = same ratings as in 415 V

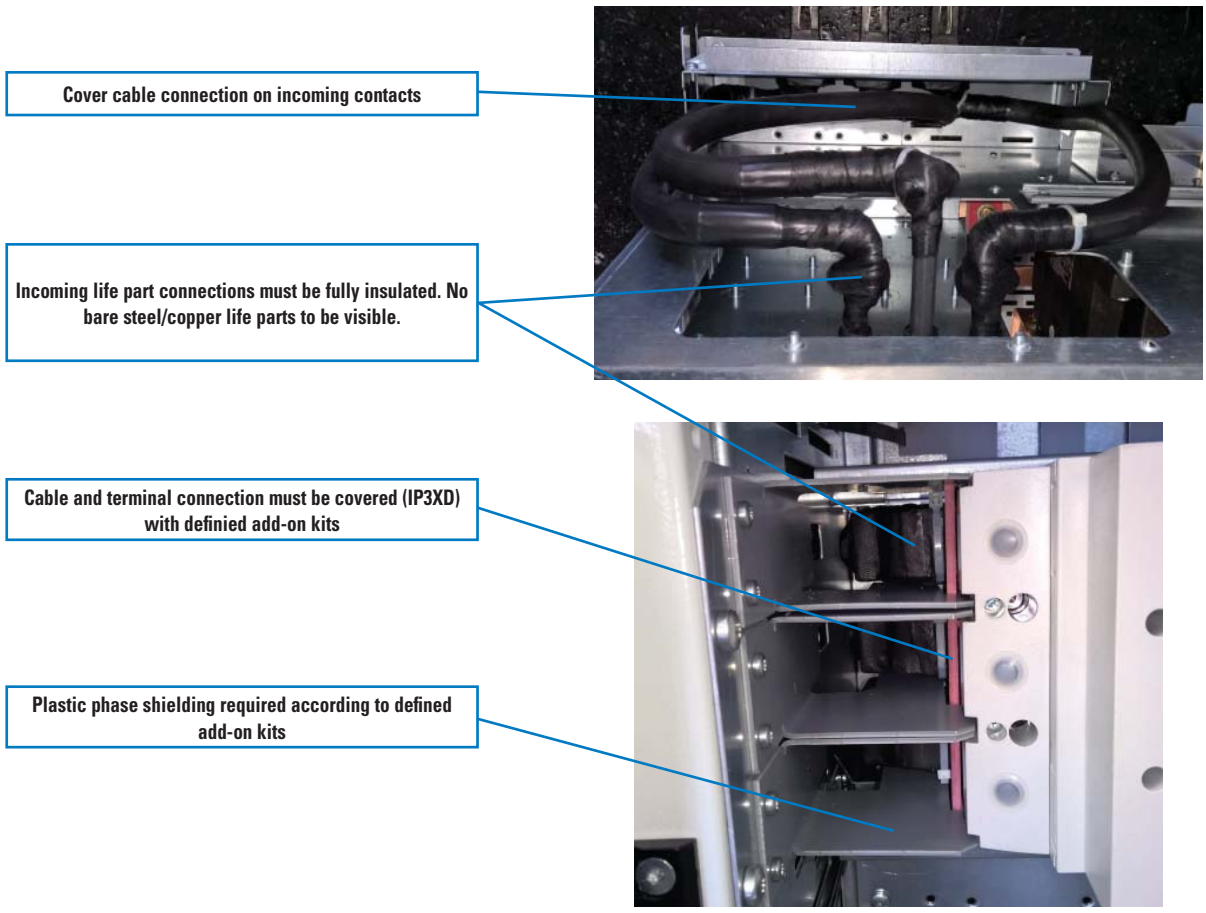
From panel type prospective, higher voltage panels can be prepared unchanged to panels with (U_e max. > 415 V). This applies to: XP, XF, XR, XW, XG.

Motor starter combinations need to be upgraded for U_e > 415 V. This influences all XW drawers and also XR-Mixed plug in units.

XW-Drawers

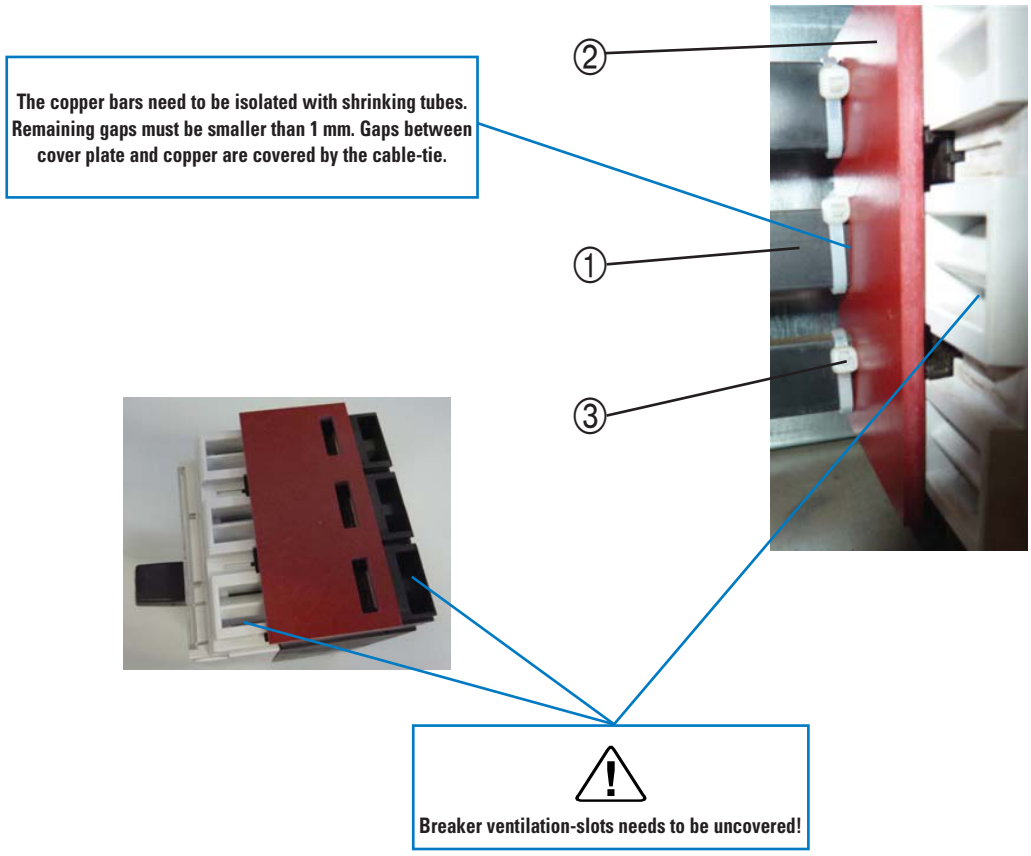
To secure proper and safe functionality in Drawers with higher Operational Voltages U_e > 415 V, the following description need to be followed:
- Insulate life parts of the MCCB breaker, terminals of MCCB up to the incoming contacts of the drawer (done by ARC-Tape and shrink tube)
- Additional it is required to separate the outgassing area of MCCB breaker by plastic shielding's (needed parts has been chosen according „drawer_outgoing_unit_list_690V")

The exact allocation of different shielding and shrouding parts (different according voltage) has to be done according our „XW_525/690V_Drawer_Ountgoing_Unit_List".

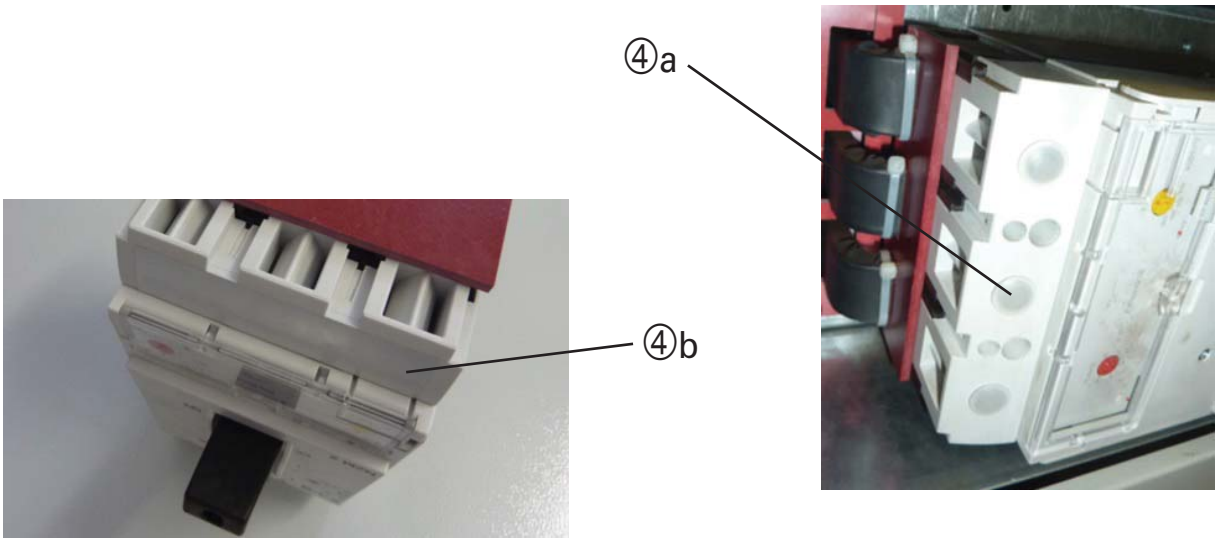


System description

- Step 1 – shrinking tubes for covering bear copper bars
- Step 2 – push cover plate over the shrinking tube covered copper and fix copper bars onto the breaker terminals
- Step 3 – push cover plate as near as possible to the breaker and fix cover plate with cable ties

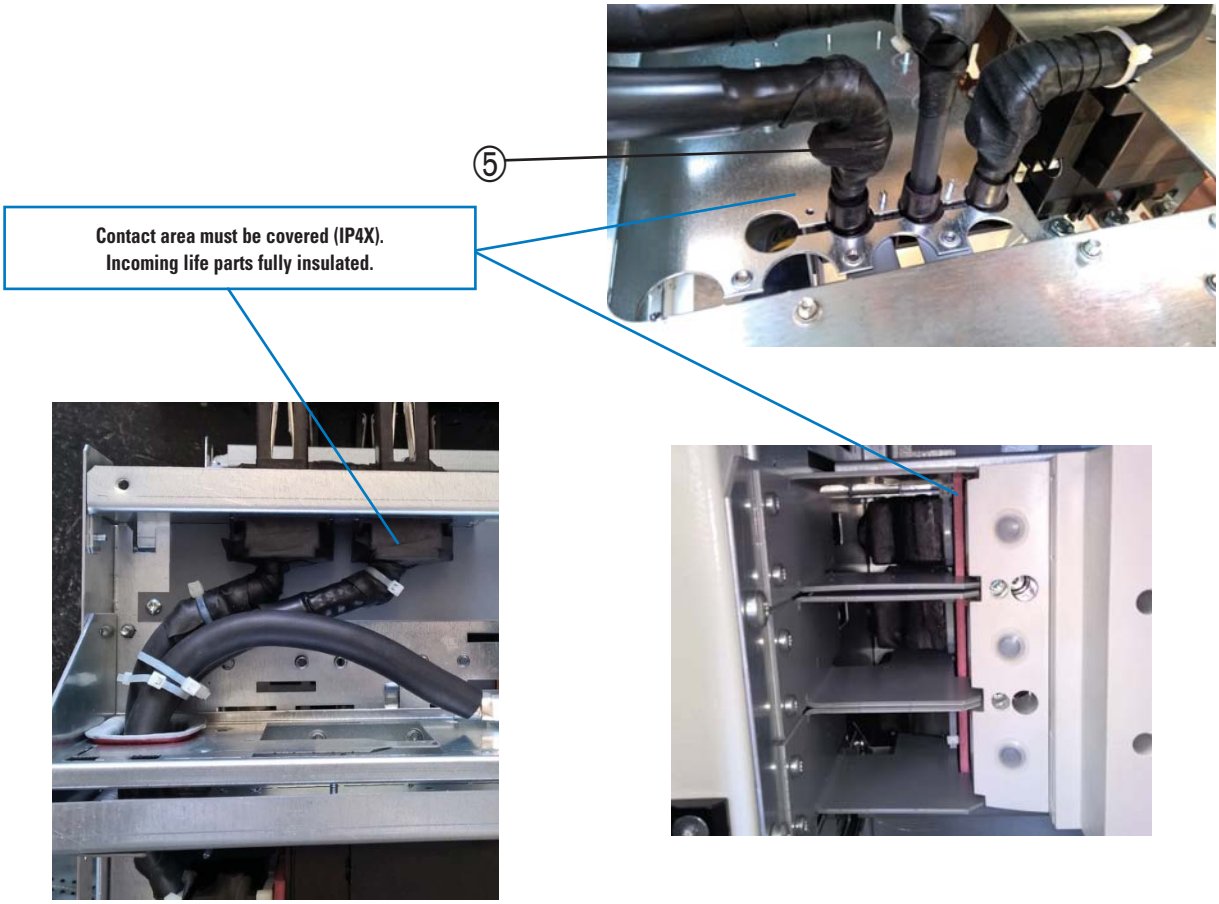


- Step 4 – protect the screw holes inside MCCB housing
  a) cover holes with the seal-caps
  b) use the silver seal sticker which are in the set included, cut according the named size from the BA-716 and glue it onto the breaker over the seal-caps to secure against losing them

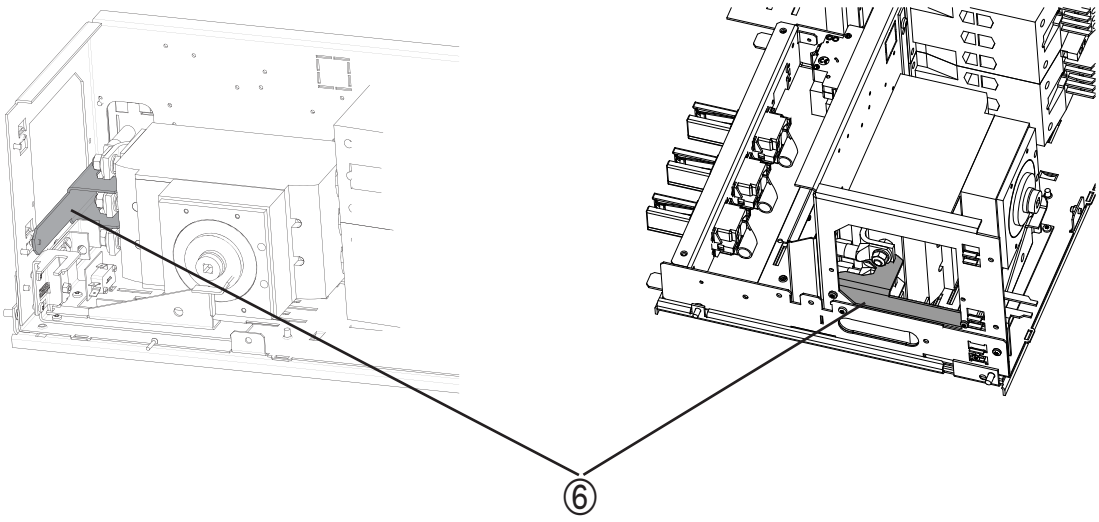


The covers needs to cover all life parts on line side! It must be avoided to touch any life parts with a 100 mm long wire with 1 mm diameter (IP3XD). The breaker itself is not affected by this rule. Remaining gaps must be smaller than 1 mm. Gaps between cable and cover-plate are covered by the cable-tie. Screw-holes are covered with the seal-caps. Ventilation holes of the breaker needs to be uncovered!

• Step 5 – Insulation of electrically contacts:
Incoming contacts and every open connection point on line side needs to be insulated with ARC-Tape or Shrink Tube.

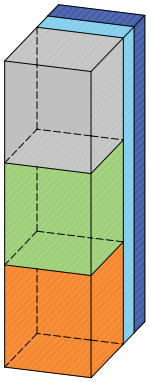
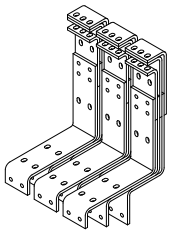
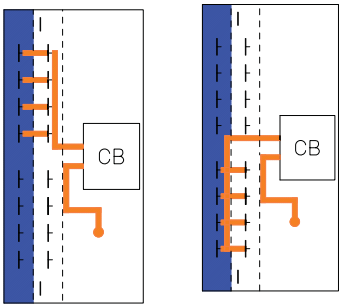
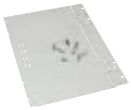
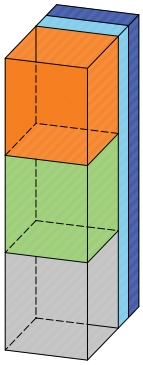
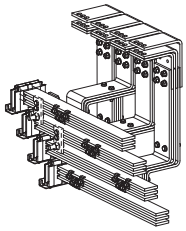
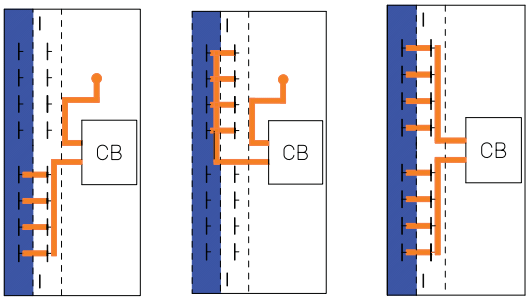
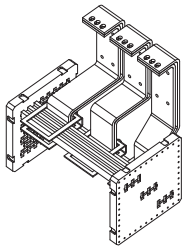


Step 6 – Insulation walls in between the conductors for the different applications and sizes of breakers. We offer the correct fitting separation walls.



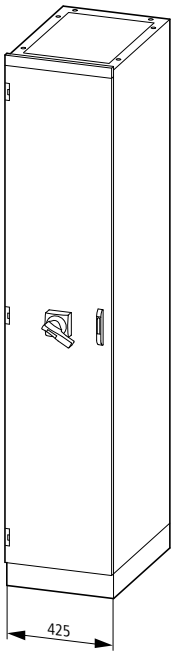
Incoming life parts must be fully insulated. Take care of not to damage insulation during installation.

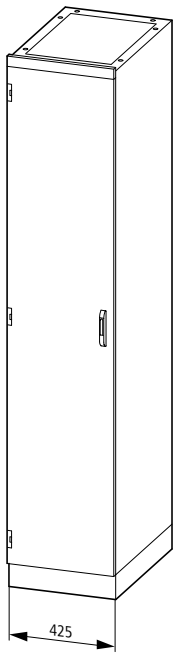
For circuit breakers up to 5000 A

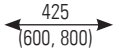
	Functional areas	Connection area	Busbar systems	Switchgear area 2
Busbar at the rear				Mounting plates 
				
		 Central incoming supply up to 4000 A: Cable connection system: drill-free connection across the entire section width, contacting from the front by means of connection terminals (brace terminals)		

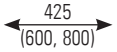
Switchgear area 1
Switchgear area 2
Connection area
Busbars
Additional busbar area where 5000 A are used

For circuit breakers up to 1600 A

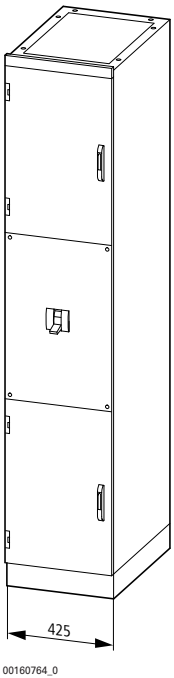


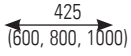






Section widths of 425 mm and 600 mm, internalal separation up to Form 2





Section widths of 425 mm, 600 mm, 800 mm and 1000 mm, internalal separation up to Form 4

For compact circuit breakers NZM3/4:

- in withdrawable or fixed design
- 3, 4 or 3P+N poles
- as incoming, outgoing or coupling switchgear
- for measuring purposes you can mount current transformers between the connection and the switchgear
- 2 devices possible in 1 section in Form 4

Dimensions

- Section widths of 425, 600, 800 or 1000 mm
- Section height 2000 mm, optional with plinth of 100 or 200 mm
- Section depth 600 or 800 mm; section depth 800 mm only with rear-mounted busbar

Connection area

- to cover up the connection copper you will need the connection area cover XKSA
- connection directly to a flag connector or to tunnel-type terminals

With internalal separation of Form 1 up to Form 2:

- with a front door as high as the cabinet
- doors ventilated, closed or transparent
- with doors right or left-hinged
- operation of the switch behind the door or with an extension shaft and the rotary door coupling handle from outside

With internalal separation up to Form 4:

- 2 switchgear area doors, one above and one below the device, as well as a cover strip with quick-acting closures in the centre in front of the device
- switchgear to be operated from outside
- doors ventilated or closed
- with doors right or left-hinged
- areas not used for cable connection may be used for accommodating additional equipment, e.g. controlgear or surge protection devices

Type of switchgear installation and section width for NZM

Compact circuit breaker
Type NZM3, fixed

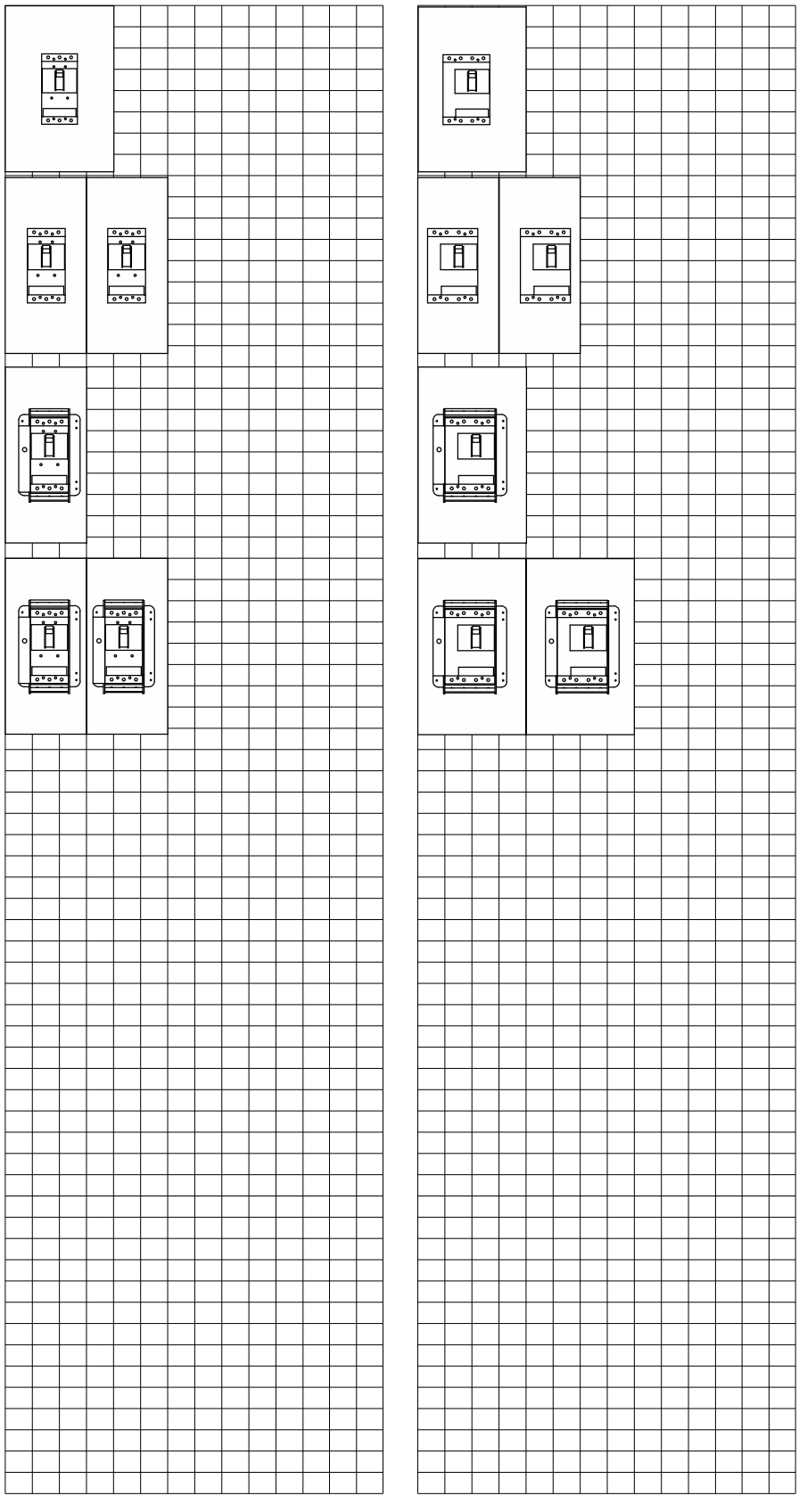
Compact circuit breaker
Type NZM3, withdrawable

Section width,
3 poles

425 600 800 1000 1200 1350

Section width,
4 poles

425 600 800 1000 1200 1350



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Type of switchgear installation and section width for NZM4

Compact circuit breaker,
Type NZM4, fixed

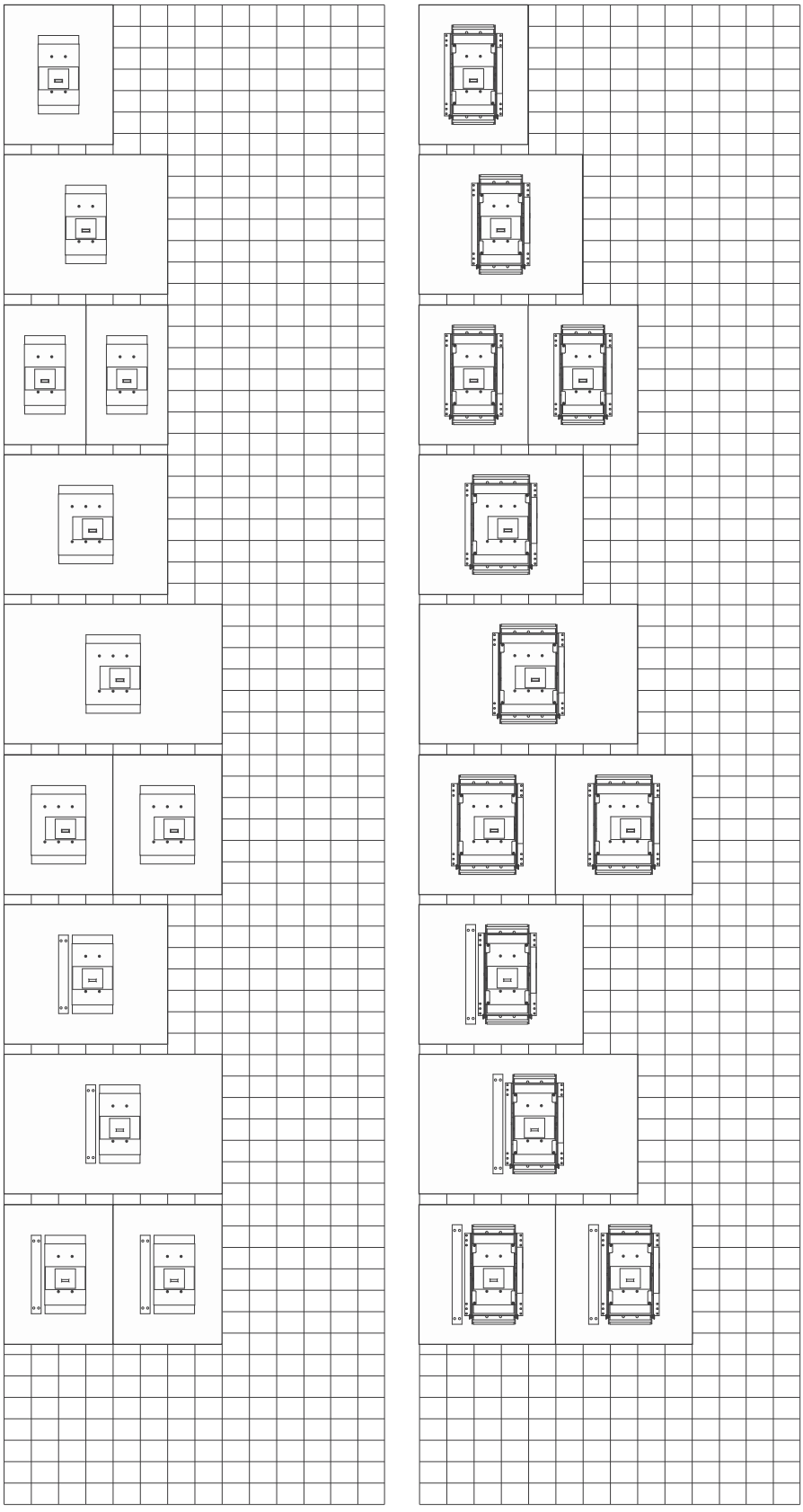
Compact circuit breaker,
Type NZM4, withdrawable

425 600 800 1000 1200 1350

Section width,
3 poles

Section width,
4 poles

Section width,
3 poles + neutral link

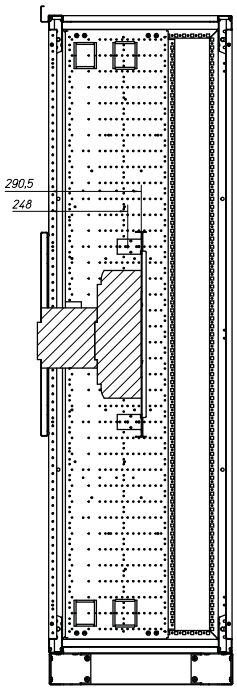


NZM4_Width_Overview_axis_changed

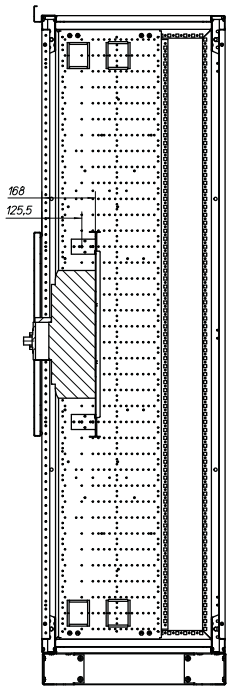
Dimensions

XP section with incorporation of NZM3/4 circuit breakers
XMN3..., XMN4...

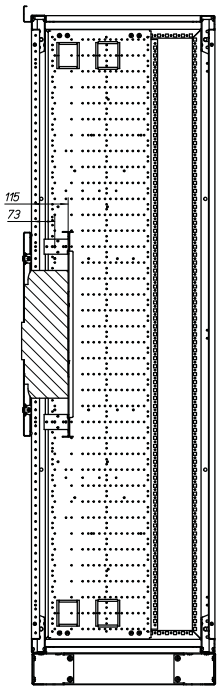
NZM4 Fixed Motor
XMN4xxx



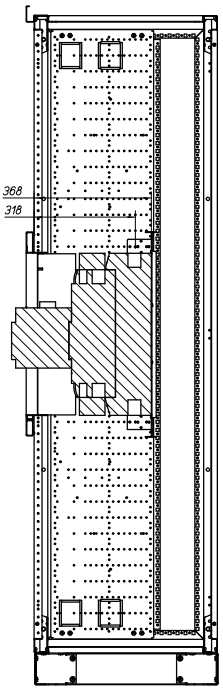
NZM4 Fixed Rotary Handle
XMN4xxx



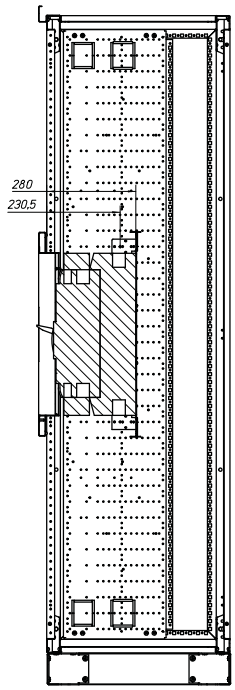
NZM4 Fixed
XMN4xxx



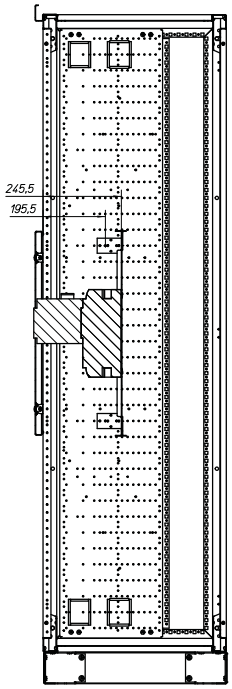
NZM4 Withdrawable Motor
XMN4xxx-2



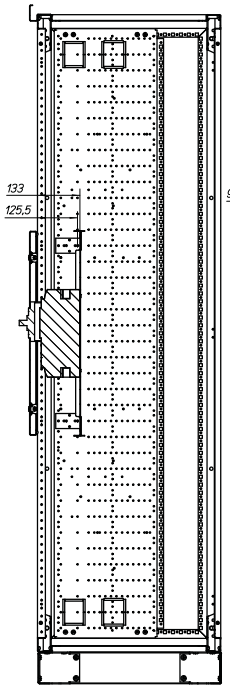
NZM4 Withdrawable
XMN4xxx-1



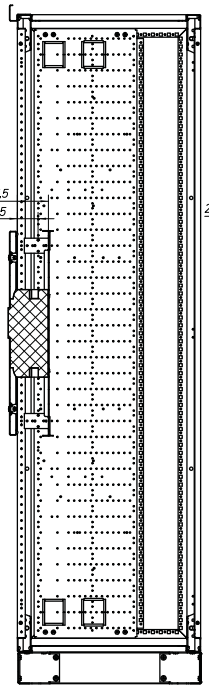
NZM3 Fixed Motor
XMN3304



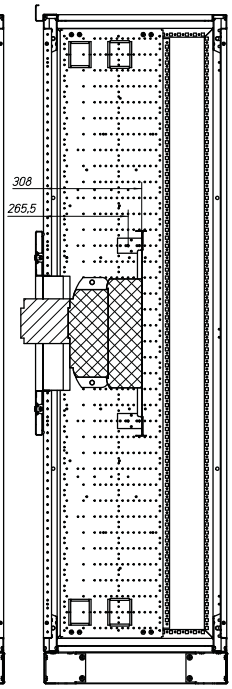
NZM3 Fixed Rotary Handle
XMN3304



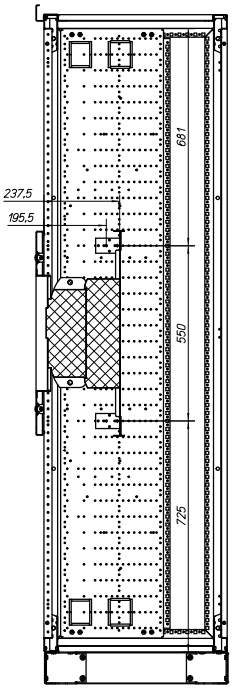
NZM3 Fixed
XMN3304



NZM3 Withdrawable Motor
XMN3304-2

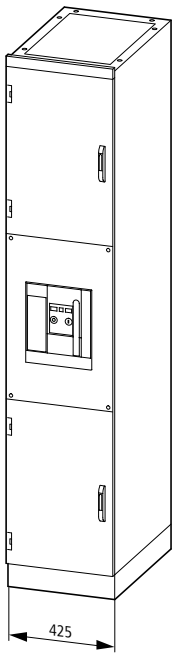


NZM3 Withdrawable
XMN3304-1



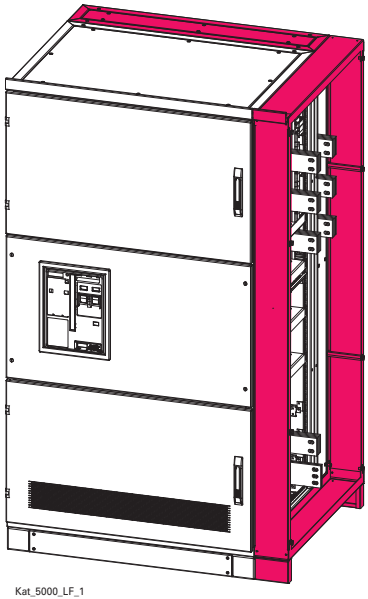
NZM_seitenansicht

For circuit breakers up to 5000 A



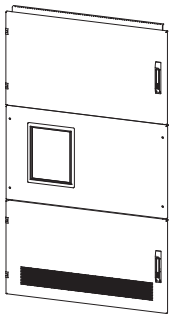
00160802_0

Section widths from 600 up to 1200 mm,
internalal separation up to Form 4



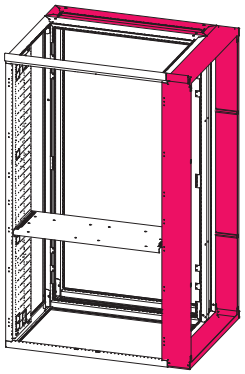
Kat_5000_LF_1

For 5000 A, the red-coloured parts are required in addition.

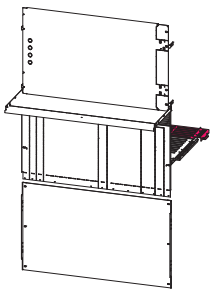


Kat_5000_LF_4

Basis

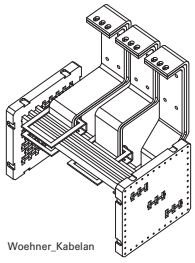


For 5000 A, the red-coloured parts are required in addition.



Internal separation up to Form 4

Central connection system up to 4000 A:
Cable connection system: drill-free connection over the total width of the section accessible from the front via feeder clip



Woehner_Kabelan

For air circuit breakers IZM and IZMX:

- in withdrawable or fixed design
- in 3 pole or 4 pole version
- as an incoming, outgoing or coupling switchgear or with a top-mounted busbar as an outgoing or incoming switchgear only
- for measuring purposes you can mount current transformers between the connection and the switchgear

For 5000 A

- for 5000 A, you need to use 2x(3x 80/10 Cu)
- for a 5000 A main busbar, you always have to add an additional frame of 200 mm depth at the back of an 800 mm deep section to create the space necessary for the second main bus bar
- in order to provide a connection between 2 sections
- (section/section), using an add-on frame of 150 mm width is compulsory

Dimensions

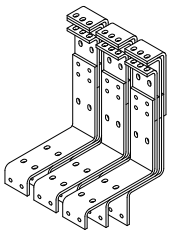
- Section widths of 425, 600, 800, 1000, 1100, 1200 or 1350 mm
- Section height 2000 mm, optional with plinth of 100 or 200 mm
- Section depth 600 or 800 mm; section depth 800 mm only with rear-mounted busbar
- rated current I_e 5000 A = section depths is 1000 (800 + 200) mm

Connection area

- incoming supply lines from the top or from below; with top-mounted busbars incoming supply lines only possible from below
- connection directly to cable connector flags
  or
- drill-free connection to cable connection system over the total width accessible from the front

Internal separation from Form 1 up to Form 4:

- partition panels ready-to-fit for section equipment up to Form 4
- 2 switchgear area doors one on top and one below the device, as well as a cover with quick-acting locks (or with hinges at the center in front of the device) with IZMX16/40 and IZM26
- switchgear to be operated from outside
- doors ventilated or closed
- doors right or left-hinged
- areas not used for cable connection can be used to accommodate additional equipment, eg. controlgear or surge protection devices



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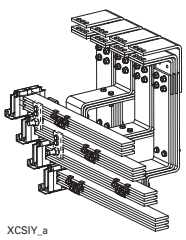
Direct cable connection



XCSIY_a

Cable connection system: drill-free connection over the total width of the section accessible from the front (typ: KCSIY)

Type of switchgear installation and section width for IZMX40

Section width,
3 poles

425 600 800 1000 1200 1350

Section width,
4 poles

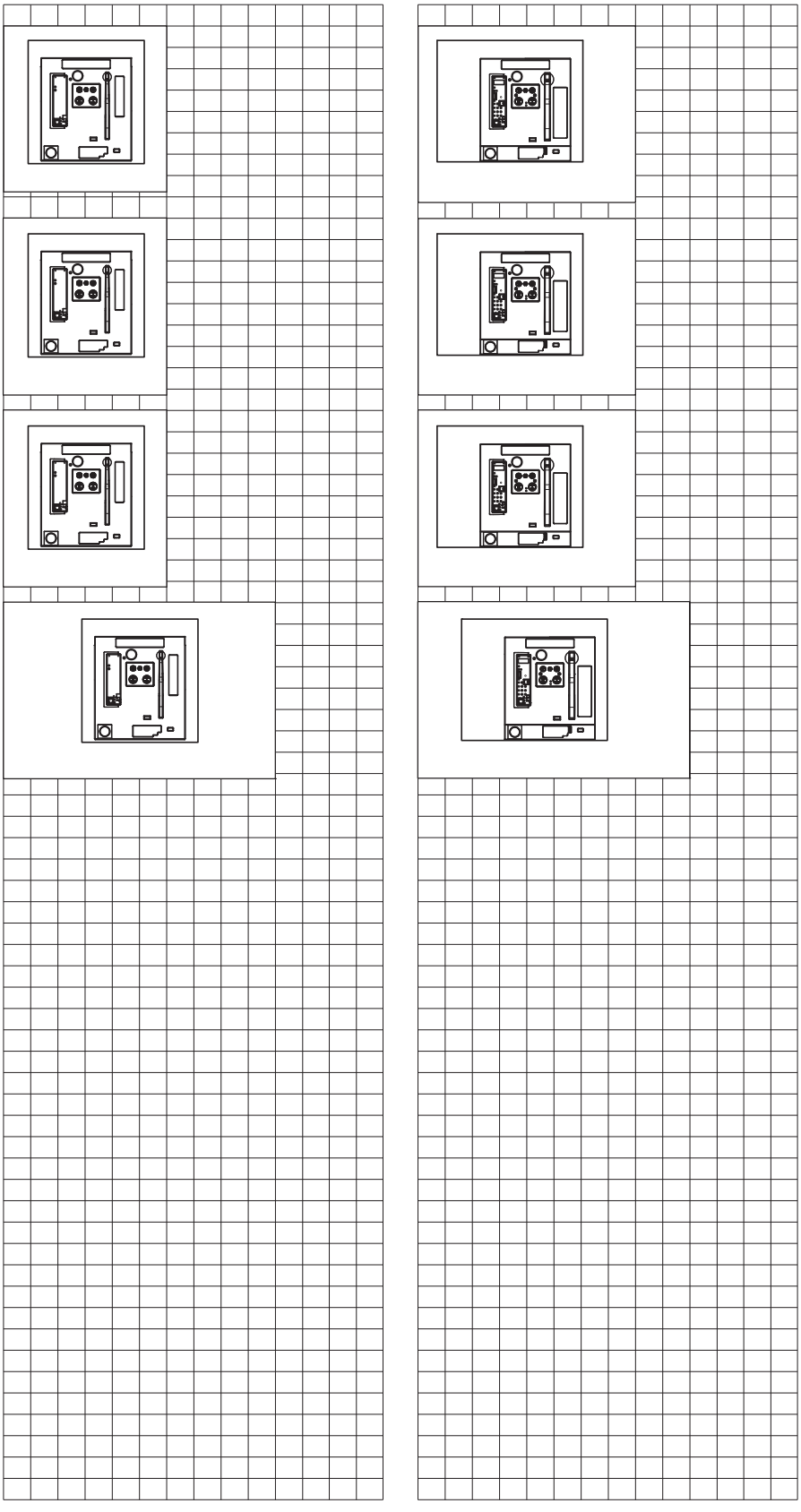
425 600 800 1000 1200 1350

Air circuit breaker
Type IZMX40, fixed and withdrawable,
up to 1600 A

Air circuit breaker
Type IZMX40, fixed and withdrawable,
up to 2000 A

Air circuit breaker
Type IZMX40, fixed and withdrawable,
up to 3200 A

Air circuit breaker
Type IZMX40, fixed and withdrawable,
up to 4000 A



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Type of switchgear installation and section width for IZMX16/IZM20/32/40/63

Section width,
3 poles

425 600 800 1000 1200 1350

Section width,
4 poles

425 600 800 1000 1200 1350

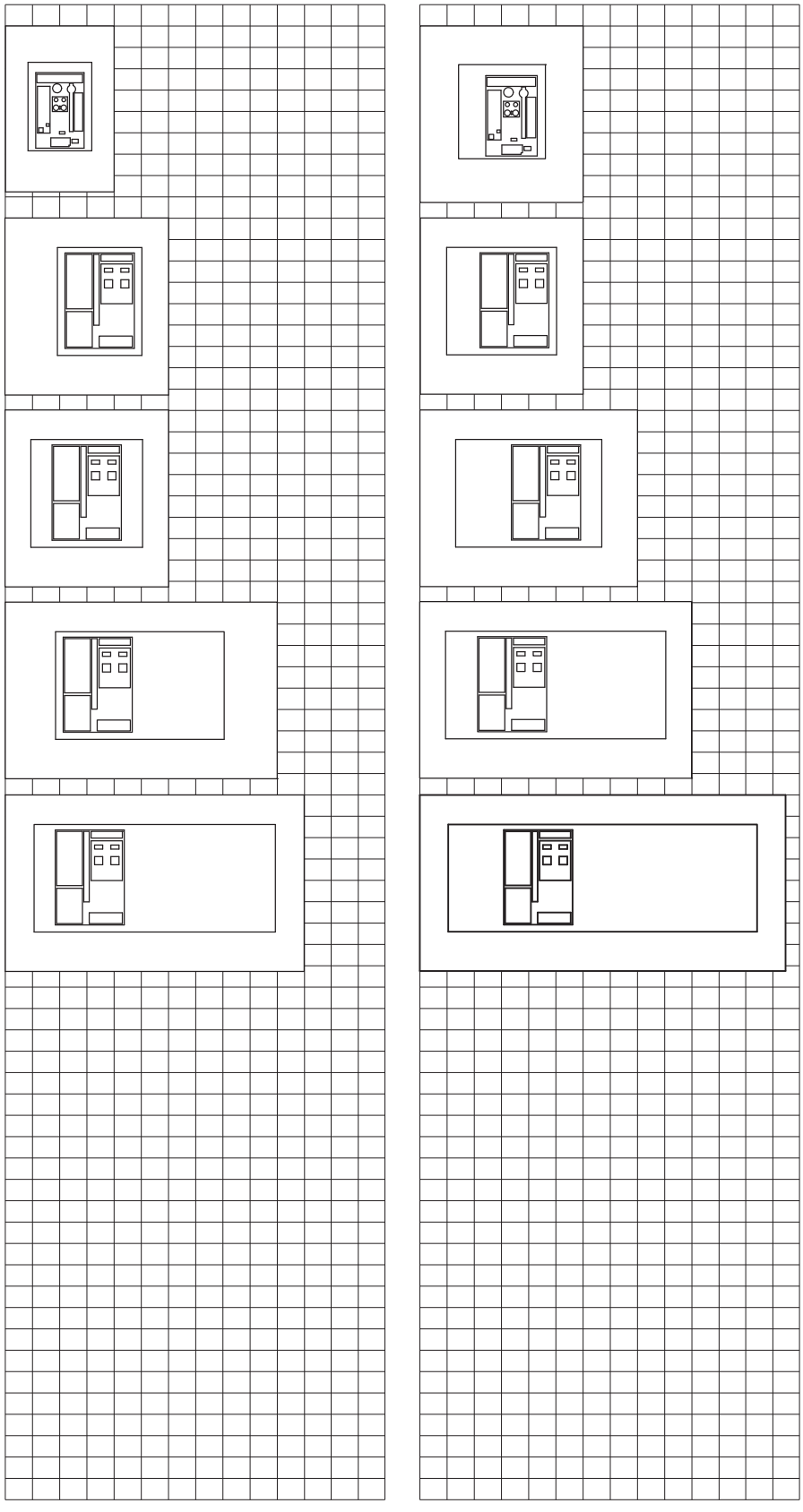
Air circuit breaker
Type IZMX16, fixed and withdrawable,
up to 1600 A

Air circuit breaker
Type IZM20, fixed and withdrawable,
up to 2000 A

Air circuit breaker
Type IZM32, fixed and withdrawable,
up to 3200 A

Air circuit breaker
Type IZM40, fixed and withdrawable,
up to 4000 A

Air circuit breaker
Type IZM63, fixed and withdrawable,
up to 6300 A



fk4810-1143d_13_07_1c

Type of switchgear installation and section width for IZM13

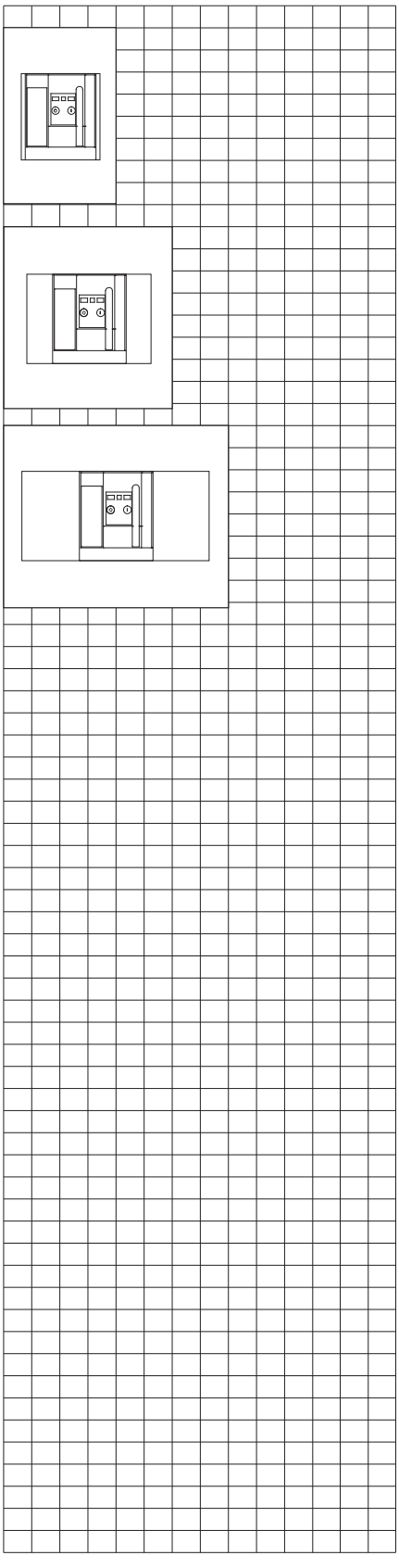
Air circuit breaker
Type IZM I, fixed and withdrawable,
up to 1600 A

Air circuit breaker
Type IZM II, fixed and withdrawable,
up to 3200 A

Air circuit breaker
Type IZM III, fixed and withdrawable,
up to 4000 A

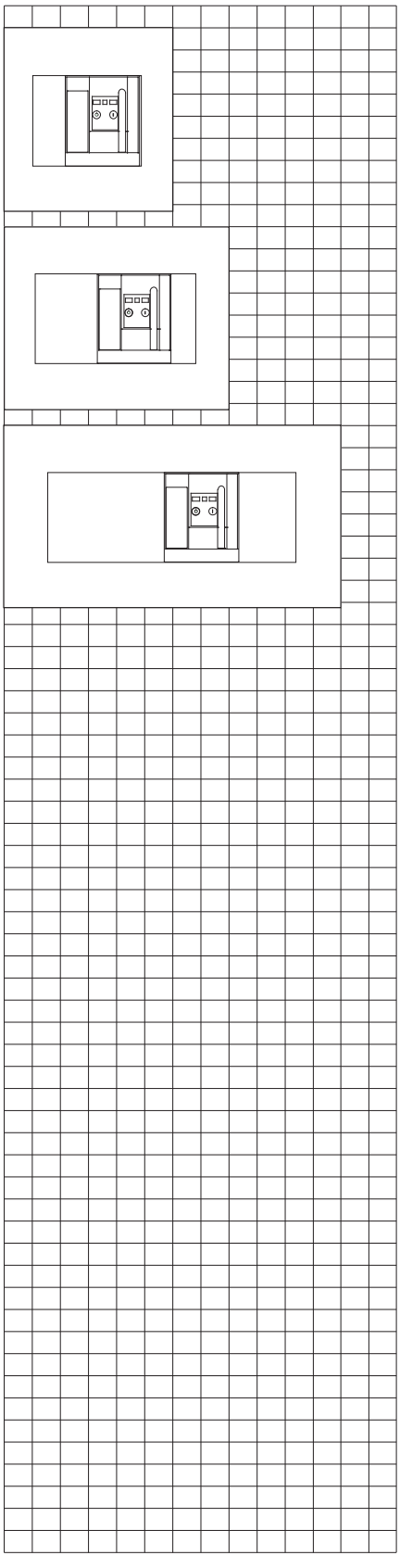
Section width,
3 poles

425 600 800 1000 1200 1350



Section width,
4 poles

425 600 800 1000 1200 1350



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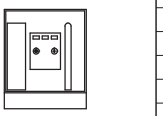
Type of switchgear installation and section width for IZM13 (UK)

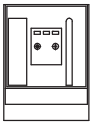
Section width,
3/N poles

425 600 800 1000 1200 1350

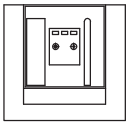
Air circuit breaker
Type IZM1, fixed and withdrawable,
UK



Air circuit breaker
Type IZM1, fixed and withdrawable,
UK



Air circuit breaker
Type IZM2, fixed and withdrawable,
UK



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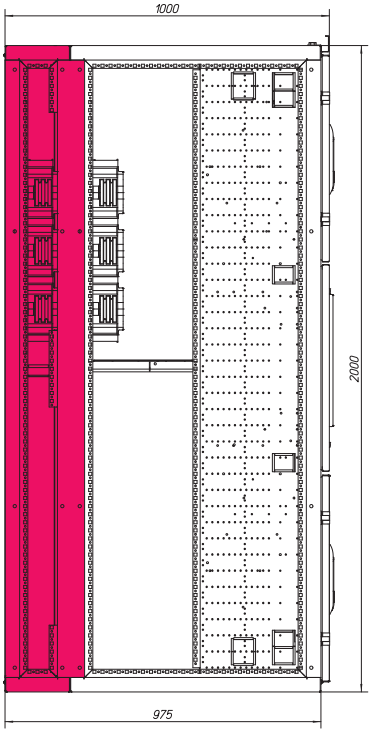
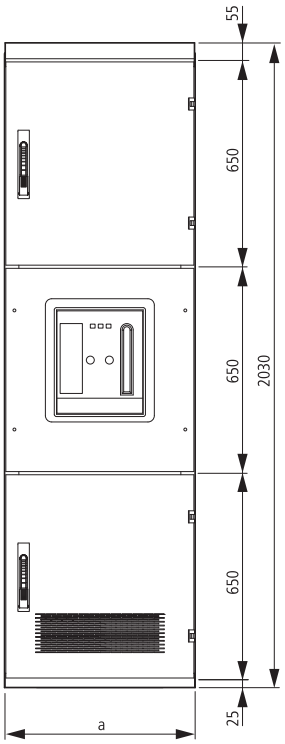
Dimensions

XP section with incorporation of IZM circuit breakers
XSMIB20



00162399_0

For 5000 A, the red-coloured parts are required in addition.



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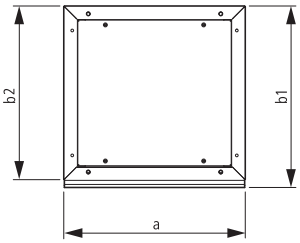
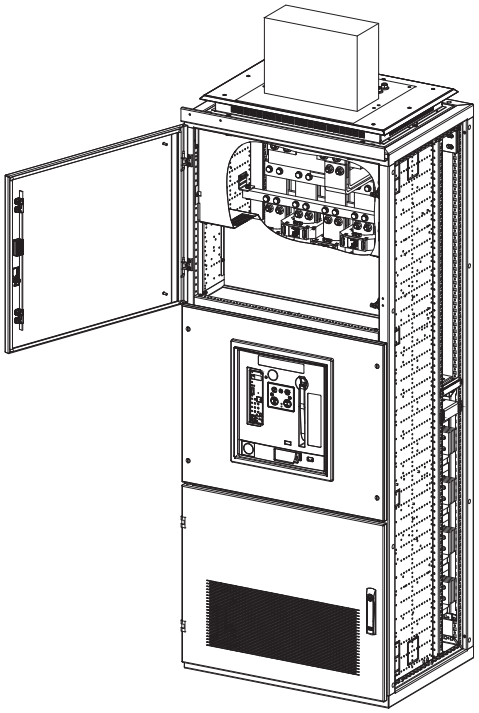


00162219_0

b1	b2
600	575
800	775
1000 (800+200)	975

a
425
600
800
850
1000
1100
1200
1350

Bus Duct Connection



Bus Duct Connection_1

Technical description

XP-panels can be connected with different bus duct brands, in variably configurations.

Types of XP-sections	1x NZM4, 1x IZMX16, 1x IZMX40, 1x IZM63
Net configurations	TN, TT, IT, TN-C-S, TN-S, TN-C
Poles	3+4-poles, 3P+N
Direction of connection	top or bottom
Type of connection	EVEN or OPPO
Breaker version	fixed or withdrawable

Useable Bus Duct Brands

EATON	XP2	ALU/CU
EAE	KX	ALU/CU
Siemens	LD	ALU/CU

Mechanically architecture

Top/Bottom-Plates

In order to connect xEnergy Main XP panels with bus duct systems you need to add special flange – adapter plates instead standard top/ bottom plate. Those flange plate needs to be used for both connection directions (from top or bottom). If the bus duct comes from the bottom, an additional plinth is mandatory to get the space available for the bus duct flange plate. An exception to use the panels without plinth would be if on site is a raceway in place. So the flange-adapter plates does have enough space also without plinth.

The status of delivery of the flange plates are as closed one. According to the used bus duct system, the customer need to prepare the cutout inside the adapter plate, fitting to the flange, by himself. Detailed information's regarding size and positioning of cutout, you can find inside the concerned building instruction (different sizes according bus duct type and brand).

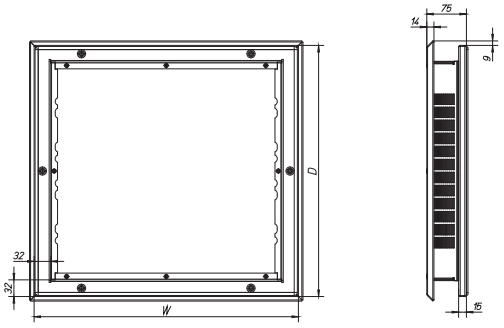
Bus-Head-Plate supports with more functionalities

1) Regarding the shape like a head, we have more space availability inside the enclosure. Thanks this we can build up the copper connections for different bus duct brands similar.
2) Mechanically stability. Regarding the weight of bus heads, the construction is designed more stable as standard top plates.
3) If ventilation is required (IP31/42) we need to use this kind of shape in any case, to be similar with IP55 solutions, we keep the shape therefore as well.

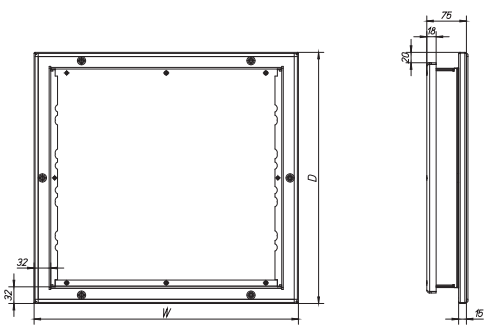
Depth	Width	W	D
600	425	332	482
	600	507	482
	800	707	482
	1000	907	482
800	425	332	682
	600	507	682
	800	707	682
	1000	907	682
	1100	1007	682
	1200	1107	682
	1350	1257	682

Dimensions Top/Bottom-Flangeplate

IP31/42



IP55

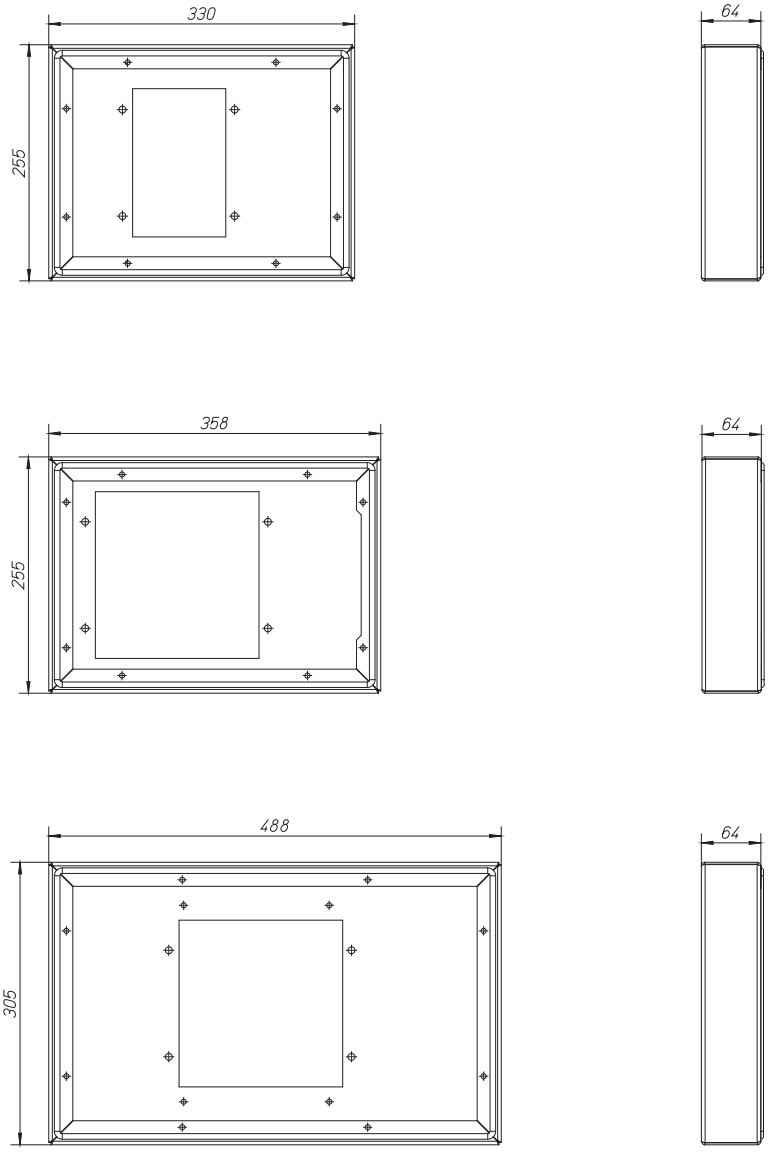


Bus Duct Connection_Dachplatte

Adapter Frame

For some Siemens Bus Duct Flanges it is necessary to use additional adapter frames on top of the Bus Duct Flange plate. Those additional spare part is necessary regarding space availability inside the enclosure. We offer three different sizes of adapter frames. The mapping of the adapter frames has to be done according the below table.

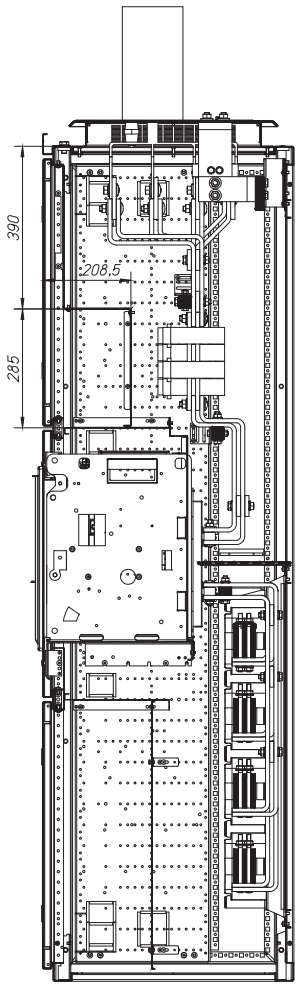
Adapter Frame	SIEMENS 5 pole Flange - ALU	SIEMENS 5 pole Flange - CU
XNAD-LD1, 187704	SIEMENS LDA2620-FA1	-
	SIEMENS LDA3620-FA1	-
	-	SIEMENS LDC2620-FA1
	-	SIEMENS LDC3620-FA1
XNAD-LD2, 187705	SIEMENS LDA5620-FA1	-
	SIEMENS LDA7620-FA1	-
	-	SIEMENS LDC6620-FA1
XNAD-LD3, 187706	-	SIEMENS LDC7620-FA1
	SIEMENS LDA8620-FA1	-
	-	SIEMENS LDC8620-FA1



Bus Duct Connection_Adapter-Frame

Mounting Plate

In front of the bus duct connection a mounting plate is required. Those plate gives the protection against life parts and gives as well the opportunity to fix electrically devices inside the compartment above the main breaker (DIN-Rail devices or smaller built on devices o the mounting plate). Available space/ dimensions you can find in drawing.



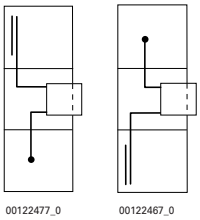
Bus Duct Connection_2

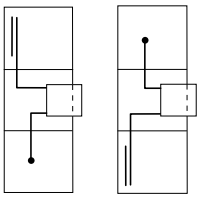
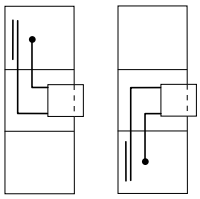
Transportation

For connection from top:
The total height of the panels is affected by the flange plates in which the rail flanges are installed. This must be taken into account when transporting the enclosures. Trucks with special transport heights may have to be ordered.

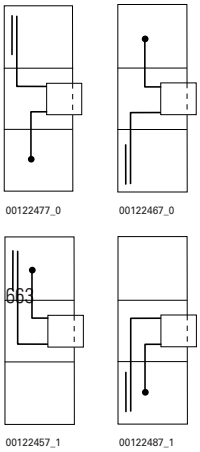
For connection from bottom:
If the flanges are installed at the bottom of the enclosure, a pedestal must be installed to allow the installation of a rail flange plate. The rail flange extends beyond the flange plate and thus also beyond the lower edge of the stand base. The enclosure combination must be placed onto mounting aids for mounting the rail flange. Here we recommend the use of solid squared lumber. If the overall height of the enclosure combination, with the assembled bus head and mounting/transport aid permits transportation, the increased center of gravity needs to be observed.
If the overall height does not allow transportation, the bus duct flange must be removed and finally reassembled at the customer's site.

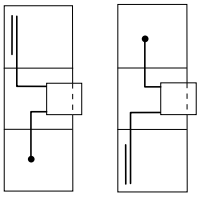
Current load tables for circuit-breaker panels with NZM4 and busbar connection

Configuration	Circuit breaker	Characteristic	Installation type	I_e up to A	Rail system	I_e up to A	Type of rail system in	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections 25 °C A	35 °C A	50 °C A
Busbar area, busbar rear or top											
 00122477_0 00122467_0 663 00122457_1 00122487_1	NZM4	VE/AE	Fixed/withdrawable	630	EAE KXA 06	630	Alu	IP31 with ventilated top cover	630	595	526
								IP31 with closed top cover	630	595	526
								IP42 with ventilated top cover	630	595	526
								IP42 with closed top cover	630	595	526
								IP55	790	750	526
				800	Eaton XP2	800	Alu	IP31 with ventilated top cover	790	750	663
								IP31 with closed top cover	790	750	663
								IP42 with ventilated top cover	790	750	663
								IP42 with closed top cover	790	750	663
								IP55	790	750	663
					EAE KX. 08	800	Alu/Cu	IP31 with ventilated top cover	800	756	668
								IP31 with closed top cover	800	756	668
								IP42 with ventilated top cover	800	756	668
								IP42 with closed top cover	800	756	668
								IP55	800	756	668
				1000	Eaton XP2	1000	Alu/Cu	IP31 with ventilated top cover	970	922	798
								IP31 with closed top cover	880	838	725
								IP42 with ventilated top cover	970	922	798
								IP42 with closed top cover	850	803	693
								IP55	850	803	693
					EAE KX. 10	1000	Alu/Cu	IP31 with ventilated top cover	980	929	803
								IP31 with closed top cover	890	845	730
								IP42 with ventilated top cover	980	929	803
								IP42 with closed top cover	850	803	693
								IP55	850	803	693
					Siemens LDA2620-FA1	1250	Alu	IP31 with ventilated top cover	980	930	803
								IP31 with closed top cover	890	845	730
								IP42 with ventilated top cover	980	930	803
								IP42 with closed top cover	850	803	693
								IP55	850	803	693
					Siemens LDC2620-FA1	2000	Cu	IP31 with ventilated top cover	980	930	803
								IP31 with closed top cover	890	845	730
								IP42 with ventilated top cover	980	930	803
								IP42 with closed top cover	850	803	693
								IP55	850	803	693
				1250	Eaton XP2	1250	Alu/Cu	IP31 with ventilated top cover	1240	1173	997
								IP31 with closed top cover	1120	1066	906
								IP42 with ventilated top cover	1240	1173	997
								IP42 with closed top cover	1040	990	900
								IP55	1040	990	900
					EAE KX. 12	1250	Alu/Cu	IP31 with ventilated top cover	1250	1182	1005
								IP31 with closed top cover	1130	1074	914
								IP42 with ventilated top cover	1250	1182	1005
								IP42 with closed top cover	1040	990	900
								IP55	1040	990	900
					Siemens LDA3620-FA1	1600	Alu	IP31 with ventilated top cover	1240	1178	1002
								IP31 with closed top cover	1130	1071	911
								IP42 with ventilated top cover	1240	1178	1002
								IP42 with closed top cover	1040	990	900
								IP55	1040	990	900
					Siemens LDC2620-FA1	2000	Cu	IP31 with ventilated top cover	1250	1210	1060
								IP31 with closed top cover	1160	1100	964
								IP42 with ventilated top cover	1250	1210	1060
								IP42 with closed top cover	1040	990	900
								IP55	1040	990	900

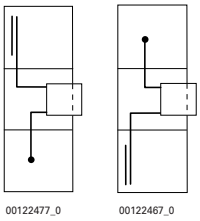
Configuration	Circuit breaker	Charac-teristic	Install-ation type	I_e up to	Rail system	I_e up to	Type of rail system in	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections		
				A		A			25 °C A	35 °C A	50 °C A
Busbar area, busbar rear or top											
 00122477_0 00122467_0  00122457_1 00122487_1	NZM4	VE/AE	Fixed/ withdra-wable	1600	Eaton XP2	1600	Alu/Cu	IP31 with ventilated top cover	1280	1210	1060
								IP31 with closed top cover	1160	1100	964
								IP42 with ventilated top cover	1280	1210	1060
								IP42 with closed top cover	1040	990	900
								IP55	1040	990	900
					EAE KX. 17	1600	Alu/Cu	IP31 with ventilated top cover	1280	1210	1060
								IP31 with closed top cover	1160	1100	964
								IP42 with ventilated top cover	1280	1210	1060
								IP42 with closed top cover	1040	990	900
								IP55	1040	990	900
					Siemens LDA3620-FA1	1600	Alu	IP31 with ventilated top cover	1280	1210	1060
								IP31 with closed top cover	1160	1100	964
								IP42 with ventilated top cover	1280	1210	1060
								IP42 with closed top cover	1040	990	900
								IP55	1040	990	900
					Siemens LDA2620-FA1	2000	Cu	IP31 with ventilated top cover	1280	1210	1060
								IP31 with closed top cover	1160	1100	964
								IP42 with ventilated top cover	1280	1210	1060
								IP42 with closed top cover	1040	990	900
								IP55	1040	990	900

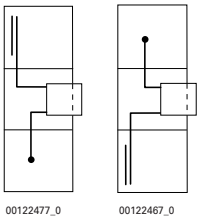
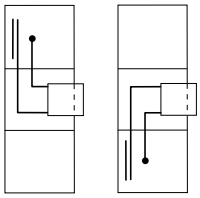
Current load tables for circuit-breaker panels with IZMX16 and busbar connection

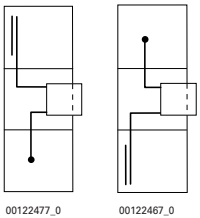
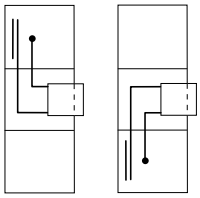
Configuration	Circuit breaker	Characteristic	Installation type	Cross-section	I_e up to	Rail system	I_e up to	Type of rail system in	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections 25 °C A	35 °C A	50 °C A
				mm x mm	A		A					
Busbar area, busbar rear or top												
up to 3200 A →↔ section depth 600 mm 4000 A →↔ section depth 800 mm												
 00122477_0 00122467_0 00122457_1 00122487_1	IZMX16	B/N/H	Fixed/ withdrawable	1x50x10	630	EAE KXA 06	630		IP31 with ventilated top cover	630	595	526
									IP31 with closed top cover	600	595	500
									IP42 with ventilated top cover	630	595	526
									IP42 with closed top cover	630	595	526
									IP55	630	595	526
					800	Eaton XP2	800	Alu	IP31 with ventilated top cover	790	750	663
									IP31 with closed top cover	750	750	630
									IP42 with ventilated top cover	790	750	663
									IP42 with closed top cover	790	750	663
									IP55	790	750	663
						EAE KX. 08	800	Alu/Cu	IP31 with ventilated top cover	800	756	668
									IP31 with closed top cover	760	756	630
									IP42 with ventilated top cover	800	756	668
									IP42 with closed top cover	800	756	668
									IP55	800	756	668
					1000	Eaton XP2	1000	Alu/Cu	IP31 with ventilated top cover	990	938	829
									IP31 with closed top cover	940	890	790
									IP42 with ventilated top cover	970	922	798
									IP42 with closed top cover	850	811	766
									IP55	850	811	766
						EAE KX. 10	1000	Alu/Cu	IP31 with ventilated top cover	1000	945	835
									IP31 with closed top cover	950	900	790
									IP42 with ventilated top cover	980	929	804
									IP42 with closed top cover	860	818	772
									IP55	860	818	772
						Siemens LDA2620-FA1	1250	Alu	IP31 with ventilated top cover	1000	1000	896
									IP31 with closed top cover	950	950	850
									IP42 with ventilated top cover	1000	983	862
									IP42 with closed top cover	910	865	828
									IP55	910	865	828
						Siemens LDC2620-FA1	2000	Cu	IP31 with ventilated top cover	1000	1000	896
									IP31 with closed top cover	950	950	850
									IP42 with ventilated top cover	1000	983	862
									IP42 with closed top cover	910	865	828
									IP55	910	865	828
				2x50x10	1250	Eaton XP2	1250	Alu/Cu	IP31 with ventilated top cover	1240	1173	1036
									IP31 with closed top cover	1180	1120	990
									IP42 with ventilated top cover	1240	1173	997
									IP42 with closed top cover	1160	1096	957
									IP55	1160	1096	957
						EAE KX. 12	1250	Alu/Cu	IP31 with ventilated top cover	1250	1182	1044
									IP31 with closed top cover	1190	1130	990
									IP42 with ventilated top cover	1250	1182	1005
									IP42 with closed top cover	1170	1104	964
									IP55	1170	1104	964
						Siemens LDA2620-FA1	1250	Alu	IP31 with ventilated top cover	1240	1178	1041
									IP31 with closed top cover	1180	1120	990
									IP42 with ventilated top cover	1240	1178	1002
									IP42 with closed top cover	1160	1101	961
									IP55	1160	1101	961
						Siemens LDC2620-FA1	2000	Cu	IP31 with ventilated top cover	1250	1250	1210
									IP31 with closed top cover	1190	1190	1150
									IP42 with ventilated top cover	1250	1250	1164
									IP42 with closed top cover	1230	1168	1117
									IP55	1230	1168	1117

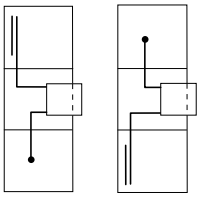
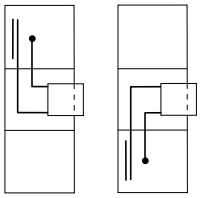
Configuration	Circuit breaker	Characteristic	Installation type	Cross-section	I_e up to	Rail system	I_e up to	Type of rail system in	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections		
				mm x mm	A		A			25 °C A	35 °C A	50 °C A
Busbar area, busbar rear or top												
up to 3200 A →↔ section depth 600 mm 4000 A →↔ section depth 800 mm												
	IZMX16	B/N/H	Fixed/ withdrawable	2x50x10	1600	Eaton XP2	1600	Alu/Cu	IP31 with ventilated top cover	1430	1350	1210
									IP31 with closed top cover	1360	1290	1150
									IP42 with ventilated top cover	1400	1327	1164
									IP42 with closed top cover	1230	1168	1117
									IP55	1230	1168	1117
						EAE KX. 17	1600	Alu/Cu	IP31 with ventilated top cover	1430	1350	1210
									IP31 with closed top cover	1360	1290	1150
									IP42 with ventilated top cover	1400	1327	1164
									IP42 with closed top cover	1230	1168	1117
									IP55	1230	1168	1117
						Siemens LDA3620-FA1	1600	Alu	IP31 with ventilated top cover	1430	1350	1210
									IP31 with closed top cover	1360	1290	1150
									IP42 with ventilated top cover	1400	1327	1164
									IP42 with closed top cover	1230	1168	1117
									IP55	1230	1168	1117
						Siemens LDA2620-FA1	2000	Cu	IP31 with ventilated top cover	1430	1350	1210
									IP31 with closed top cover	1360	1290	1150
									IP42 with ventilated top cover	1400	1327	1164
									IP42 with closed top cover	1230	1168	1117
									IP55	1230	1168	1117
				2x60x10	1600	Eaton XP2	1600	Alu/Cu	IP31 with ventilated top cover	1530	1450	1300
									IP31 with closed top cover	1460	1380	1240
									IP42 with ventilated top cover	1510	1425	1250
									IP42 with closed top cover	1330	1255	1200
									IP55	1330	1255	1200
						EAE KX. 17	1600	Alu/Cu	IP31 with ventilated top cover	1530	1450	1300
									IP31 with closed top cover	1460	1380	1240
									IP42 with ventilated top cover	1510	1425	1250
									IP42 with closed top cover	1330	1255	1200
									IP55	1330	1255	1200
						Siemens LDA3620-FA1	1600	Alu	IP31 with ventilated top cover	1530	1450	1300
									IP31 with closed top cover	1460	1380	1240
									IP42 with ventilated top cover	1510	1425	1250
									IP42 with closed top cover	1330	1255	1200
									IP55	1330	1255	1200
						Siemens LDA2620-FA1	2000	Cu	IP31 with ventilated top cover	1530	1450	1300
									IP31 with closed top cover	1460	1380	1240
									IP42 with ventilated top cover	1510	1425	1250
									IP42 with closed top cover	1330	1255	1200
									IP55	1330	1255	1200

Current load tables for circuit-breaker panels with IZMX40 and busbar connection

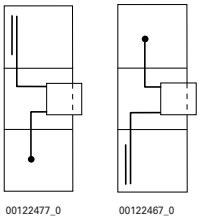
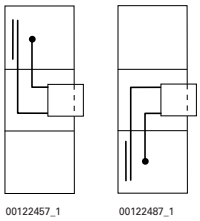
Configuration	Circuit breaker	Characteristic	Installation type	I_e up to A	Rail system	I_e up to A	Type of rail system in	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections 25 °C A	35 °C A	50 °C A
Busbar area, busbar rear or top											
up to 3200 A →↔ section depth 600 mm											
 00122477_0 00122467_0 00122457_1 00122487_1	IZMX40	B/N/H	Fixed/ withdrawable	1600	Eaton XP2	1600	Alu/Cu	IP31 with ventilated top cover	1590	1504	1314
								IP31 with closed top cover	1590	1504	1314
								IP42 with ventilated top cover	1590	1504	1260
								IP42 with closed top cover	1260	1187	1086
								IP55	1260	1187	1086
					EAE KX. 17	1600	Alu/Cu	IP31 with ventilated top cover	1600	1512	1321
								IP31 with closed top cover	1600	1512	1321
								IP42 with ventilated top cover	1600	1512	1267
								IP42 with closed top cover	1260	1193	1092
								IP55	1260	1193	1092
					Siemens LDA3620-FA1	1600	Alu	IP31 with ventilated top cover	1530	1440	1259
								IP31 with closed top cover	1530	1440	1259
								IP42 with ventilated top cover	1530	1440	1207
								IP42 with closed top cover	1200	1136	1040
								IP55	1200	1136	1040
					Siemens LDC2620-FA1	2000	Cu	IP31 with ventilated top cover	1600	1600	1573
								IP31 with closed top cover	1600	1600	1573
								IP42 with ventilated top cover	1600	1600	1508
								IP42 with closed top cover	1500	1421	1300
								IP55	1500	1421	1300
		B	Fixed/ withdrawable	2000	Eaton XP2	2000	Alu/Cu	IP31 with ventilated top cover	1990	1880	1643
								IP31 with closed top cover	1990	1880	1602
								IP42 with ventilated top cover	1990	1880	1643
								IP42 with closed top cover	1570	1483	1357
								IP55	1570	1483	1357
					EAE KXA 20	2000	Alu	IP31 with ventilated top cover	2000	1890	1652
								IP31 with closed top cover	2000	1890	1610
								IP42 with ventilated top cover	2000	1890	1652
								IP42 with closed top cover	1580	1492	1365
								IP55	1580	1492	1365
					EAE KXC 23	2000	Cu	IP31 with ventilated top cover	2000	1890	1652
								IP31 with closed top cover	2000	1890	1610
								IP42 with ventilated top cover	2000	1890	1652
								IP42 with closed top cover	1580	1492	1365
								IP55	1580	1492	1365
					Siemens LDA5620-FA1	2500	Alu	IP31 with ventilated top cover	2000	2000	1966
								IP31 with closed top cover	2000	2000	1917
								IP42 with ventilated top cover	2000	2000	1966
								IP42 with closed top cover	1880	1776	1625
								IP55	1880	1776	1625
					Siemens LDC2620-FA1	2000	Cu	IP31 with ventilated top cover	1910	1800	1573
								IP31 with closed top cover	1910	1800	1534
								IP42 with ventilated top cover	1910	1800	1573
								IP42 with closed top cover	1500	1421	1300
								IP55	1500	1421	1300

Configuration	Circuit breaker	Charac-teristic	Install-ation type	I_e up to	Rail system	I_e up to	Type of rail system in	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections		
				A		A			25 °C A	35 °C A	50 °C A
Busbar area, busbar rear or top											
up to 3200 A →↔ section depth 600 mm											
 00122477_0 00122467_0	IZMX40	N/H	Fixed/ withdra-wable	2000	Eaton XP2	2000	Alu/Cu	IP31 with ventilated top cover	1990	1880	1643
								IP31 with closed top cover	1990	1880	1643
								IP42 with ventilated top cover	1990	1880	1643
								IP42 with closed top cover	1570	1483	1357
								IP55	1570	1483	1357
					EAE KXA 20	2000	Alu	IP31 with ventilated top cover	2000	1890	1652
								IP31 with closed top cover	2000	1890	1652
								IP42 with ventilated top cover	2000	1890	1652
								IP42 with closed top cover	1580	1492	1365
								IP55	1580	1492	1365
 00122457_1 00122487_1					EAE KXC 23	2000	Cu	IP31 with ventilated top cover	2000	1890	1652
								IP31 with closed top cover	2000	1890	1652
								IP42 with ventilated top cover	2000	1890	1652
								IP42 with closed top cover	1580	1492	1365
								IP55	1580	1492	1365
					Siemens LDA5620-FA1	2500	Alu	IP31 with ventilated top cover	2000	2000	1966
								IP31 with closed top cover	2000	2000	1966
								IP42 with ventilated top cover	2000	2000	1966
								IP42 with closed top cover	1880	1776	1625
								IP55	1880	1776	1625
					Siemens LDC2620-FA1	2000	Cu	IP31 with ventilated top cover	1910	1800	1573
								IP31 with closed top cover	1910	1800	1573
								IP42 with ventilated top cover	1910	1800	1573
								IP42 with closed top cover	1500	1421	1300
								IP55	1500	1421	1300
		B	Fixed/ withdra-wable	2500	Eaton XP2	2500	Alu/Cu	IP31 with ventilated top cover	2490	2349	2053
								IP31 with closed top cover	2440	2299	1907
								IP42 with ventilated top cover	2390	2249	1965
								IP42 with closed top cover	1970	1854	1670
								IP55	1970	1854	1670
					EAE KXA 25	2500	Alu	IP31 with ventilated top cover	2490	2350	2065
								IP31 with closed top cover	2440	2300	1917
								IP42 with ventilated top cover	2390	2250	1976
								IP42 with closed top cover	1980	1864	1670
								IP55	1980	1864	1670
					EAE KXC 26	2600	Cu	IP31 with ventilated top cover	2490	2350	2065
								IP31 with closed top cover	2440	2300	1917
								IP42 with ventilated top cover	2390	2250	1976
								IP42 with closed top cover	1980	1864	1670
								IP55	1980	1864	1670
					Siemens LDA5620-FA1	2500	Alu	IP31 with ventilated top cover	2390	2250	1966
								IP31 with closed top cover	2340	2202	1826
								IP42 with ventilated top cover	2280	2154	1882
								IP42 with closed top cover	1880	1776	1625
								IP55	1880	1776	1625
					Siemens LDC3620-FA1	2600	Cu	IP31 with ventilated top cover	2480	2340	2045
								IP31 with closed top cover	2430	2290	1899
								IP42 with ventilated top cover	2380	2240	1957
								IP42 with closed top cover	1960	1847	1670
								IP55	1960	1847	1670

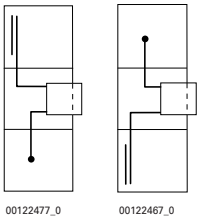
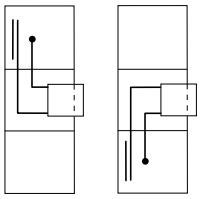
Configuration	Circuit breaker	Characteristic	Installation type	I_e up to A	Rail system	I_e up to A	Type of rail system in	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections 25 °C A	35 °C A	50 °C A
Busbar area, busbar rear or top											
up to 3200 A →↔ section depth 600 mm											
 00122477_0 00122467_0  00122457_1 00122487_1	IZMX40	N/H	Fixed/ withdrawable	2500	Eaton XP2	2500	Alu/Cu	IP31 with ventilated top cover	2490	2349	2053
								IP31 with closed top cover	2440	2300	1910
								IP42 with ventilated top cover	2390	2251	1967
								IP42 with closed top cover	1970	1854	1697
								IP55	1970	1854	1697
					EAE KXA 25	2500	Alu	IP31 with ventilated top cover	2500	2363	2065
								IP31 with closed top cover	2450	2313	1921
								IP42 with ventilated top cover	2400	2264	1978
								IP42 with closed top cover	1980	1864	1706
								IP55	1980	1864	1706
					EAE KXC 26	2600	Cu	IP31 with ventilated top cover	2500	2363	2065
								IP31 with closed top cover	2450	2313	1921
								IP42 with ventilated top cover	2400	2264	1978
								IP42 with closed top cover	1980	1864	1706
								IP55	1980	1864	1706
					Siemens LDA5620-FA1	2500	Alu	IP31 with ventilated top cover	2390	2250	1966
								IP31 with closed top cover	2340	2203	1829
								IP42 with ventilated top cover	2290	2156	1884
								IP42 with closed top cover	1880	1776	1625
								IP55	1880	1776	1625
					Siemens LDC3620-FA1	2600	Cu	IP31 with ventilated top cover	2480	2340	2045
								IP31 with closed top cover	2430	2291	1902
								IP42 with ventilated top cover	2380	2243	1959
								IP42 with closed top cover	1960	1847	1690
								IP55	1960	1847	1690
		B/N/H	Fixed/ withdrawable	3200	Eaton XP2	3200	Alu/Cu	IP31 with ventilated top cover	3060	2888	2520
								IP31 with closed top cover	2880	2710	2460
								IP42 with ventilated top cover	2930	2760	2420
								IP42 with closed top cover	2480	2340	1950
								IP55	2480	2340	1950
					EAE KXA 33	3300	Alu	IP31 with ventilated top cover	3060	2888	2520
								IP31 with closed top cover	2880	2710	2460
								IP42 with ventilated top cover	2930	2760	2420
								IP42 with closed top cover	2480	2340	1950
								IP55	2480	2340	1950
					EAE KXC 32	3200	Cu	IP31 with ventilated top cover	3060	2888	2520
								IP31 with closed top cover	2880	2710	2460
								IP42 with ventilated top cover	2930	2760	2420
								IP42 with closed top cover	2480	2340	1950
								IP55	2480	2340	1950
					Siemens LDA7620-FA1	3700	Alu	IP31 with ventilated top cover	3060	2888	2520
								IP31 with closed top cover	2880	2710	2460
								IP42 with ventilated top cover	2930	2760	2420
								IP42 with closed top cover	2480	2340	1950
								IP55	2480	2340	1950
					Siemens LDC6620-FA1	3400	Cu	IP31 with ventilated top cover	3060	2888	2520
								IP31 with closed top cover	2880	2710	2460
								IP42 with ventilated top cover	2930	2760	2420
								IP42 with closed top cover	2480	2340	1950
								IP55	2480	2340	1950

Configuration	Circuit breaker	Charac-teristic	Install-ation type	I_e up to	Rail system	I_e up to	Type of rail system in	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections		
				A		A			25 °C A	35 °C A	50 °C A
Busbar area, busbar rear or top											
up to 3200 A →↔ section depth 600 mm											
 00122477_0 00122467_0	IZMX40	B/N/H	Fixed/ withdra-wable	4000	Eaton XP2	4000	Alu/Cu	IP31 with ventilated top cover	3870	3650	3250
								IP31 with closed top cover	3500	3300	2950
								IP42 with ventilated top cover	3720	3500	3120
								IP42 with closed top cover	2860	2700	2440
								IP55	2860	2700	2440
					EAE KXA 40	4000	Alu	IP31 with ventilated top cover	3870	3650	3250
								IP31 with closed top cover	3500	3300	2950
								IP42 with ventilated top cover	3720	3500	3120
								IP42 with closed top cover	2860	2700	2440
								IP55	2860	2700	2440
 00122457_1 00122487_1					EAE KXC 40	4000	Cu	IP31 with ventilated top cover	3870	3650	3250
								IP31 with closed top cover	3500	3300	2950
								IP42 with ventilated top cover	3720	3500	3120
								IP42 with closed top cover	2860	2700	2440
								IP55	2860	2700	2440
					Siemens LDA8620-FA1	4000	Alu	IP31 with ventilated top cover	3820	3600	3146
								IP31 with closed top cover	3450	3255	2856
								IP42 with ventilated top cover	3660	3452	3020
								IP42 with closed top cover	2860	2700	2440
								IP55	2860	2700	2440
					Siemens LDC7620-FA1	4400	Cu	IP31 with ventilated top cover	3860	3635	3250
								IP31 with closed top cover	3490	3287	2950
								IP42 with ventilated top cover	3700	3486	3120
								IP42 with closed top cover	2860	2700	2440
								IP55	2860	2700	2440

Current load tables for circuit-breaker panels with IZM63 and busbar connection

Configuration	Circuit breaker	Characteristic	Installation type	Cross-section	I_e up to	Rail system	I_e up to	Type of rail system in	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections		
				mm x mm	A		A			25 °C A	35 °C A	50 °C A
Busbar area, busbar rear												
 00122477_0 00122467_0	IZM63	N/H	Fixed/ withdrawable	2x3x80 (100) x10[1)]	4000	Eaton XP2	4000	Alu/Cu	IP31 with ventilated top cover	3740	3520	3520
									IP31 with closed top cover	3130	2949	2738
									IP42 with ventilated top cover	3460	3256	2738
									IP42 with closed top cover	3130	2949	2787
									IP55	3130	2949	2787
						Siemens LDA8620-FA1	4000	Alu	IP31 with ventilated top cover	3820	3600	3600
									IP31 with closed top cover	3200	3016	2800
									IP42 with ventilated top cover	3530	3330	2800
									IP42 with closed top cover	3200	3016	2850
									IP55	3200	3016	2850
 00122457_1 00122487_1						Siemens LDC7620-FA1	4400	Cu	IP31 with ventilated top cover	4000	3960	3960
									IP31 with closed top cover	3520	3318	3135
									IP42 with ventilated top cover	3890	3663	3080
									IP42 with closed top cover	3520	3318	3135
									IP55	3520	3318	3135
				2x3x100 x10	5000	Eaton XP2	5000	Alu/Cu	IP31 with ventilated top cover	4670	4400	3850
									IP31 with closed top cover	3830	3610	3000
									IP42 with ventilated top cover	4190	3945	3451
									IP42 with closed top cover	3830	3610	3000
									IP55	3830	3610	3000
						Siemens LDC8620-FA1	5000	Cu	IP31 with ventilated top cover	4780	4500	3938
									IP31 with closed top cover	3920	3692	3068
									IP42 with ventilated top cover	4280	4034	3530
									IP42 with closed top cover	3920	3692	3068
									IP55	3920	3692	3068

[1)] 2x3x100x10 for IP55 configuration

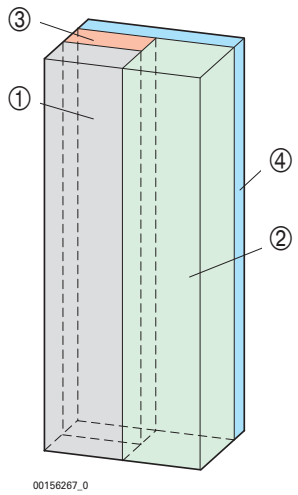
Configuration	Circuit breaker	Characteristic	Installation type	Cross-section	I_e up to	Rail system	I_e up to	Type of rail system in	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections		
				mm x mm	A		A			25 °C A	35 °C A	50 °C A
Busbar area, busbar top												
 00122477_0 00122467_0	IZM63	N/H	Fixed/ withdrawable	2x3x80 (100) x10[1)]	4000	Eaton XP2	4000	Alu/Cu	IP31 with ventilated top cover	3740	3520	3520
									IP31 with closed top cover	3460	3256	2738
									IP42 with ventilated top cover	3460	3256	2738
									IP42 with closed top cover	3130	2949	2787
									IP55	3130	2949	2787
						Siemens LDA8620-FA1	4000	Alu	IP31 with ventilated top cover	3820	3600	3600
									IP31 with closed top cover	3530	3330	2800
									IP42 with ventilated top cover	3530	3330	2800
									IP42 with closed top cover	3200	3016	2850
									IP55	3200	3016	2850
 00122457_1 00122487_1						Siemens LDC7620-FA1	4400	Cu	IP31 with ventilated top cover	4000	3960	3960
									IP31 with closed top cover	3890	3663	3080
									IP42 with ventilated top cover	3890	3663	3080
									IP42 with closed top cover	3520	3318	3135
									IP55	3520	3318	3135
				2x3x100 x10	5000	Eaton XP2	5000	Alu/Cu	IP31 with ventilated top cover	4670	4400	3850
									IP31 with closed top cover	4190	3945	3451
									IP42 with ventilated top cover	4190	3945	3451
									IP42 with closed top cover	3830	3610	3000
									IP55	3830	3610	3000
						Siemens LDC8620-FA1	5000	Cu	IP31 with ventilated top cover	4780	4500	3938
									IP31 with closed top cover	4280	4034	3530
									IP42 with ventilated top cover	4280	4034	3530
									IP42 with closed top cover	3920	3692	3068
									IP55	3920	3692	3068
				2x4x100 x10		Eaton XP2	6300	Cu	IP31 with ventilated top cover	4990	4700	4000
									IP31 with closed top cover	4410	4150	3494
									IP42 with ventilated top cover	4990	4700	4000
									IP42 with closed top cover	4410	4150	3494
									IP55	4410	4150	3494

[1)] 2x3x100x10 for IP55 configuration

For fixed modules

Functional areas

Busbar rear-mounted



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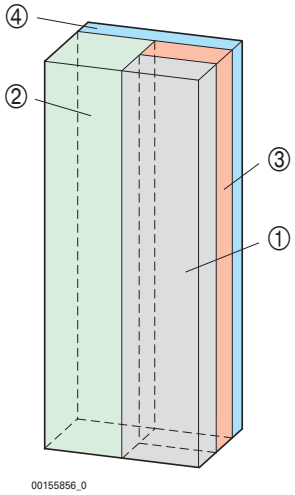

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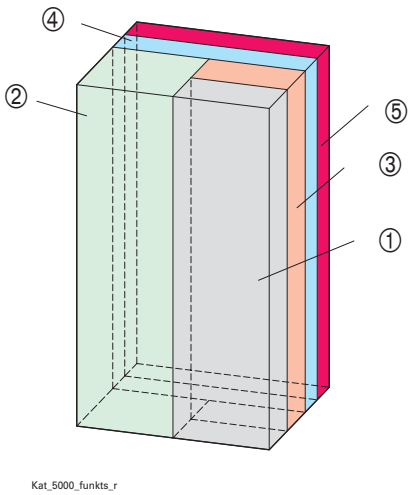


Kat_5000_funkts_r

1 Switchgear area

2 Cable connection area

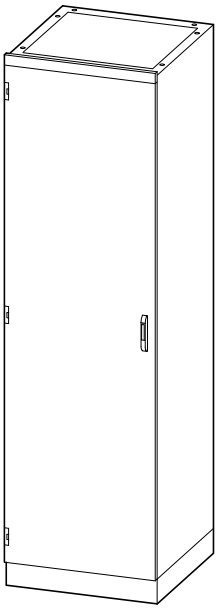
3 Dropper bars

4 Main busbars

5 Additional main busbar area for 5000 A

For fixed modules up to 630 A, Form 2

Form 2



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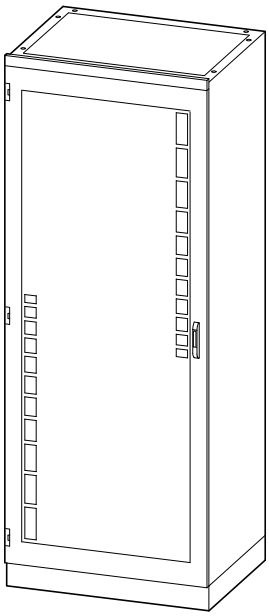
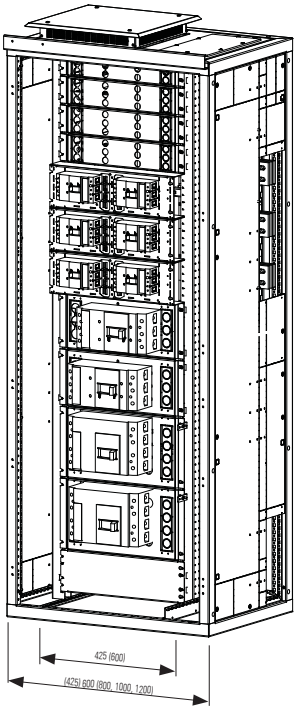
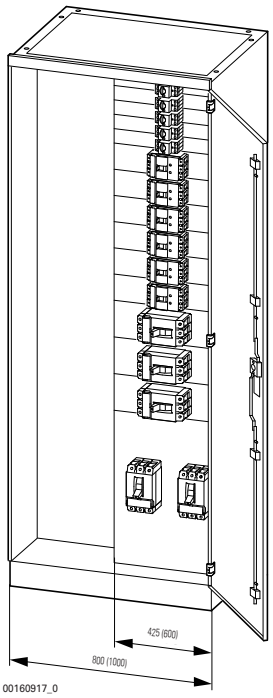


00160863_0

Section widths from 600, 800 or 1000 mm, with door either closed or transparent



2b-D600



00160917_0

Cable connection area in different installation positions for widths of 200 and 400 mm.

- for **circuit breakers**, motor starters, miniature circuit breakers and fuse switch disconnectors
- **in horizontal and vertical position**
- Installation of the switchgear **on one mounting level** on mounting plates in the widths of 425, 600 or 800 mm
- internalal separation up to Form 2
- connection on the incoming side is provided for through a vertically arranged dropper bar system, covered to be touch-proof (through mounting plates).
- cable connection is provided for on the side, in the right or left part of the distributor section
- with a front door as high as the cabinet, ventilated, closed or transparent, door right or left-hinged.
- switchgear to be operated behind the door or with an extension shaft and a rotary door coupling handle from outside

Additional information for BF-modules

- BF-modules only can be used in IP31 degree of protection
- with BF-single modules the cable outlet can only be realized on the right side
- with BF-double modules must also on the left side a cable section to be queued (either a separate cable section or combi section)
- Double BF-modules must be set to distance angle (XNBW-NZM.)

Horizontally fixed

Circuit breaker	Module height (U/mm)	
	3 poles	4 poles
25 A	2/50	-
40 A	4/100	4/100
63 A	4/100	-
160 A	4/100	6/150
300 A	6/150	8/200
630 A	8/200[1)]	10/250[1)]

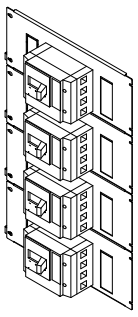
[1)] Horizontal installation of NZM3 (up to 630 A) only on modules of 600 mm width

Vertically fixed

Circuit breaker	Module height[1)] (U/mm)	Number of circuit breakers per module	
		425 mm	600 mm
160 A	12/300	2	3
300 A	16/400	2/1[2)]	3/2[2)]
630 A	24/600	1	2/1[2)]

[1)] Vertical installation of the switchgear preferably at the top/bottom of the section, depending on the cable insertion. In case of vertical installation it may be necessary to provide more height units for cable insertion.

[2)] 4 poles

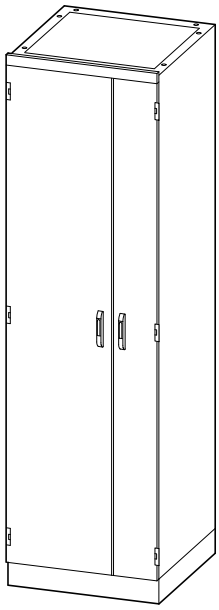


00160917_0

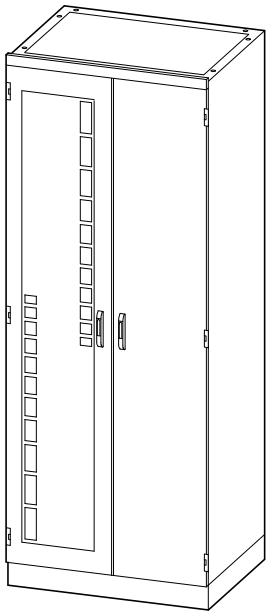
Installation of switchgear on pre-drilled mounting plates, with all fixing and connection openings prepared for installation.

For fixed modules up to 630 A, Form 4

Form 4

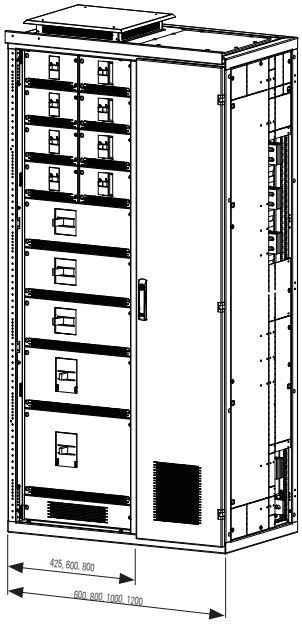


00160934_0



00160944_0

Section widths from 600, 800 or 1000 mm, with door either closed or transparent



4b-D600

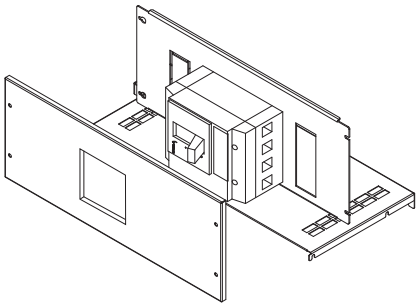
Cable connection area in different installation positions in the widths of 200, 400 and 600 mm.

- for **circuit breakers**, motor starters, miniature circuit breakers and fuse switch disconnectors
- **in horizontal and vertical position**
- the switchgear will be installed **behind module covers** and are positioned **on one operating level**
- the module covers are provided with hinges; they can be turned which provides individual access to each module
- Mounting plates in the widths of 425, 600 or 800 mm
- installation of internalal separations up to Form 41)
- connection on the incoming side is provided for on a vertically arranged dropper bar system, covered to be touch-proof
- cable connection is provided for on the side, in the right or left part of the distributor section. Are BF-modules used, the cable outlet is only on the right side possible. With the use of BF-double modules also on the left side a cable management field must be queued (optional separate cable section or combi section).
- the connection area can be accessed via a separate door to the cable connection area and can be separated from busbars and switchgear area
- switchgear to be operated from outside, via cut-outs in the module covers
- can optionally be equipped with a front door as high as the cabinet, ventilated, closed or transparent, with right or left door hinges

Additional information for BF-modules

- BF-modules can only be used in IP31
- With BF-single modules the cable outlet can be realized only on the right side
- With BF-double modules must also on the left side a cable section be queued (either a separate cable section or combi section)

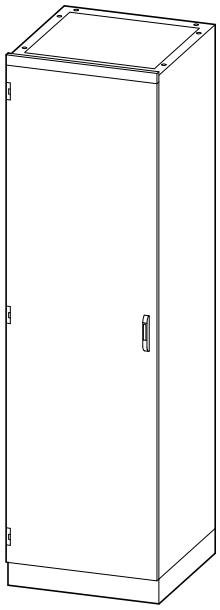
1) It may be necessary to provide for more terminals.



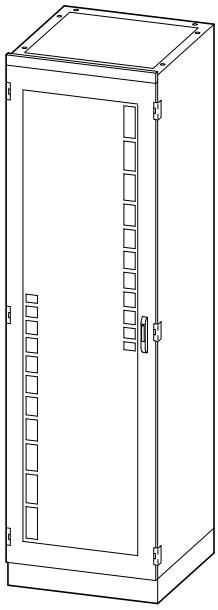
00122777_0

Installation of switchgear on pre-drilled mounting plates, with all fixing and connection openings prepared for installation. Swivel-mounted front cover comes with cut-out for operating the lever from outside.

Without dropper bar for fixed modules up to 630 A



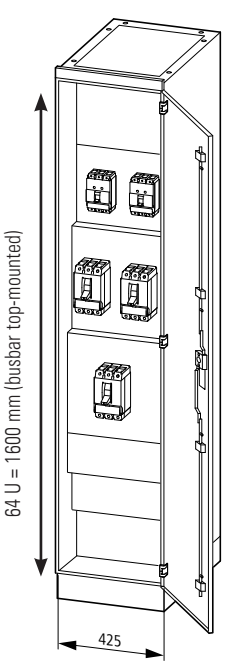
00155896_0



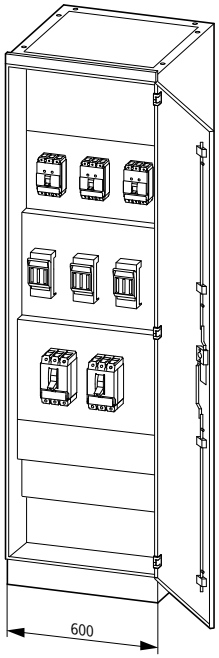
00155906_0

Section widths of 425, 600 mm, 800 and 1000 mm

- for **circuit breakers** and miniature circuit breakers
- **in vertical position**
- the switchgear are vertically mounted on mounting plates and can be mounted with an offset at any depth
- mounting plates available in widths of 425, 600, 800 or 1000 mm
- connection on the incoming side is directly on the main busbar
- main busbars can be covered so as to be touch-proof
- cable connection is done from below, either directly with the switchgear or to terminals mounted in the lower part of the section
- with a front door as high as the cabinet, ventilated, closed or transparent, with door hinged at the right or left side
- switchgear operation behind the door or from outside with an extension shaft and a rotary door coupling handle
- fitting frames can be used for front panels
- can be completely closed with front panels



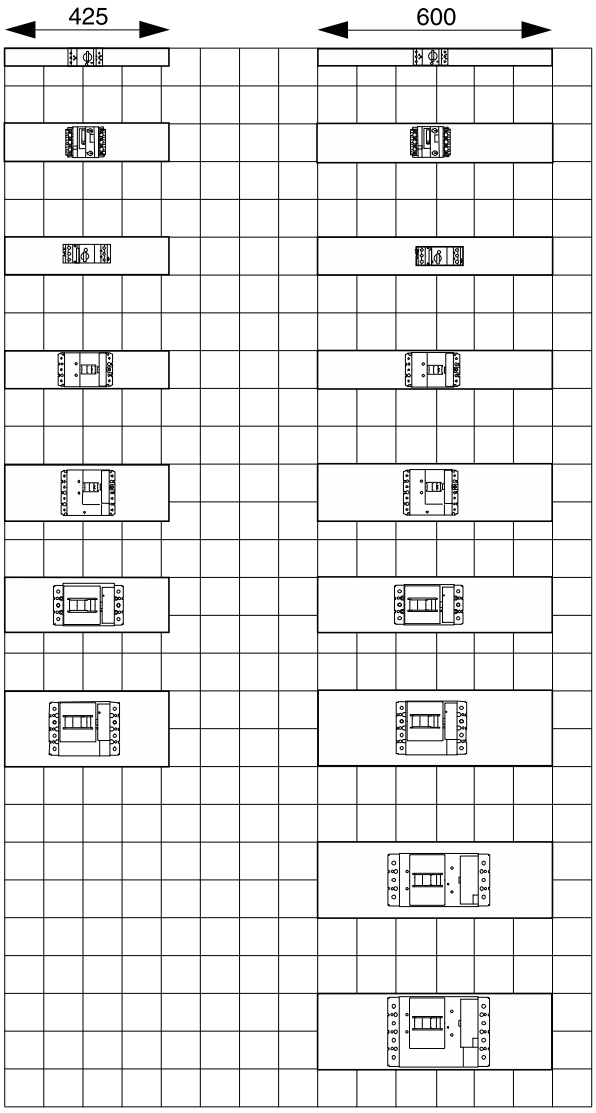
00160974_0.



00160984_0

(Fixed installation), module heights and components: Horizontal installation of switchgear

Module width



fk4810-1143d_13_13_1A4

Motor-protective circuit breakers up to **32 A**
Typ PKZM0, 2 U = 50 mm

Motor-protective circuit breakers up to **40 A**

Motor-protective circuit breakers up to **63 A**
Typ PKZM4, 4 U = 100 mm

Circuit breakers up to **160 A, 3 poles**
Type NZM1, 4 U = 100 mm

Circuit breakers up to **160 A, 4 poles**
Type NZM1, 6 U = 150 mm

Circuit breakers up to **300 A, 3 poles**
Type NZM2, 6 U = 150 mm

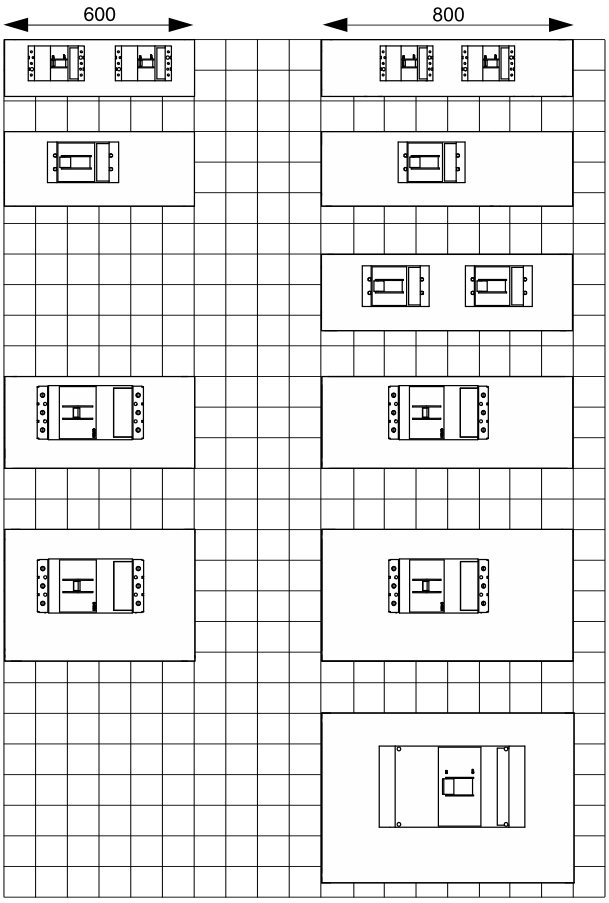
Circuit breakers up to **300 A, 4 poles**
Type NZM2, 8 U = 200 mm

Circuit breakers up to **630 A, 3 poles**
Type NZM3, 8 U = 200 mm

Circuit breakers up to **630 A, 4 poles**
Type NZM3, 10 U = 250 mm

(Fixed installation), module heights and components for BF-modules: Horizontal installation of switchgear

Module width



XF_Abg_BF

Circuit breakers up to **160 A; 3-, 4 poles, 3P+N**
Type NZM1, 6 U = 150 mm

Circuit breakers up t**o 250 A; 3-, 4 poles, 3P+N**
Type NZM2, 8 U = 200 mm

Circuit breakers up to **250 A; 3-, 4 poles, 3P+N**
Type NZM2, 8 U = 200 mm

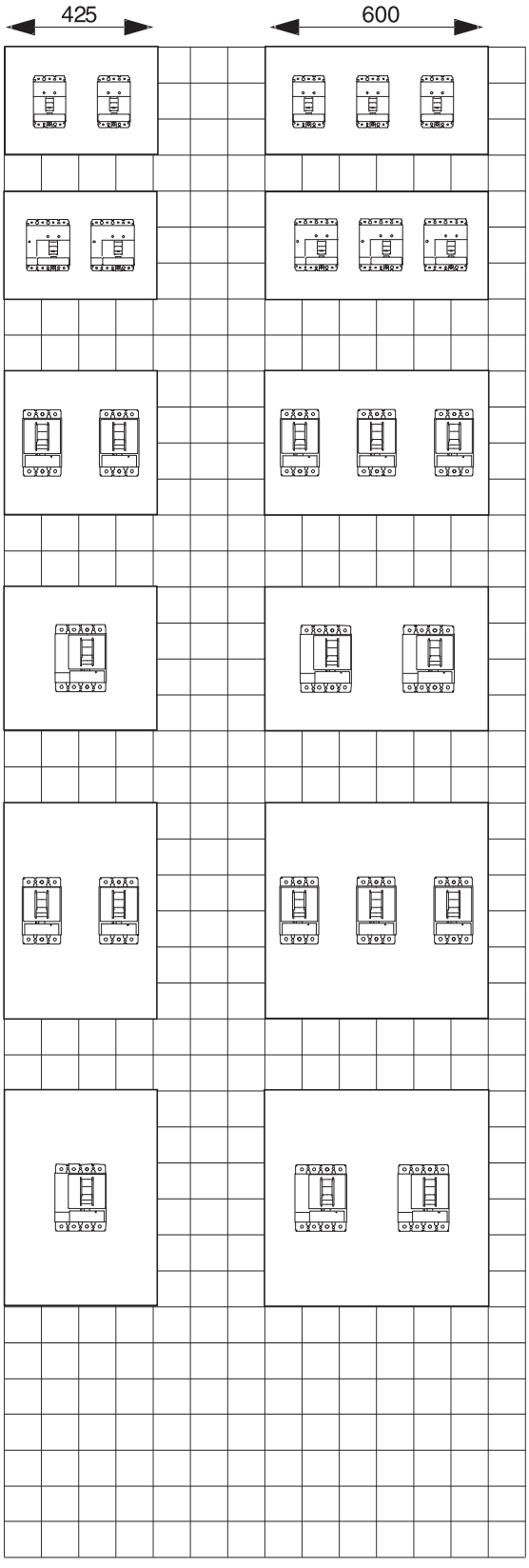
Circuit breakers up t**o 400 A; 3-, 4 poles, 3P+N**
Type NZM3, 10 U = 250 mm

Circuit breakers up t**o 630 A; 3-, 4 poles, 3P+N**
Type NZM3, 10 U = 350 mm

Circuit breakers up t**o 1250 A; 3-, 4 poles, 3P+N**
Type NZM4, 10 U = 450 mm

(Fixed installation), module heights and components: Vertical installation of switchgear

Module width



fk4810-1143d_13_14A4

Circuit breakers up to **160 A, 3 poles**
Type NZM1, 12 U = 300 mm

Circuit breakers up to **160 A, 4 poles**
Type NZM1 mit Steckeinsatz, 12 U = 300 mm

Circuit breakers up to **300 A, 3 poles**
Type NZM2, 16 U = 400 mm

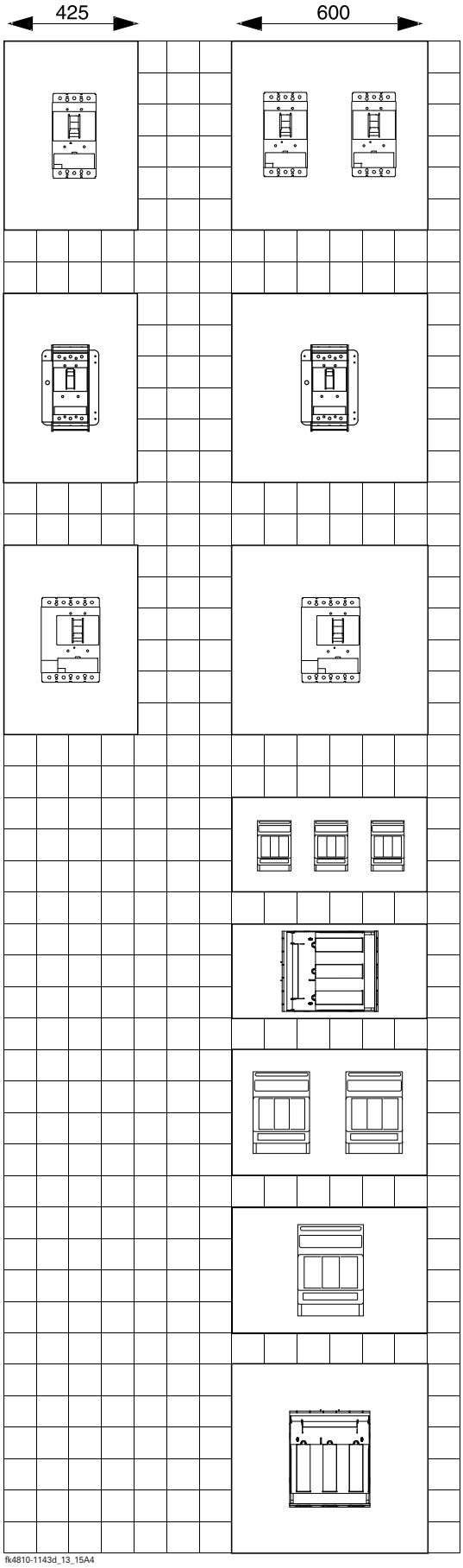
Circuit breakers up to **300 A, 4 poles**
Type NZM2, 16 U = 400 mm

Circuit breakers up to **300 A, with plug base, 3 poles**
Type NZM2, 24 U = 600 mm

Circuit breakers up to **300 A, with plug base, 4 poles**
Type NZM2, 24 U = 600 mm

(Fixed installation), module heights and components: Vertical installation of switchgear

Module width



fk4810-1143d_13_15A4

Circuit breakers up to **630 A,**
fixed, 3 poles
Type NZM3, 24 U = 600 mm

Circuit breakers up to **630 A,**
with withdrawable unit, 3 poles
Type NZM3, 24 U = 600 mm

Circuit breakers up to **630 A,**
fixed or with withdrawable unit, 4 poles
Type NZM3, 24 U = 600 mm

Fuse base or fuse switch disconnectors up to **160 A, 3 poles**
Type XNH00, 12 U = 300 mm

Fuse base or fuse switch disconnectors up to **630 A, 3 poles**
Type XNH3, 12 U = 300 mm

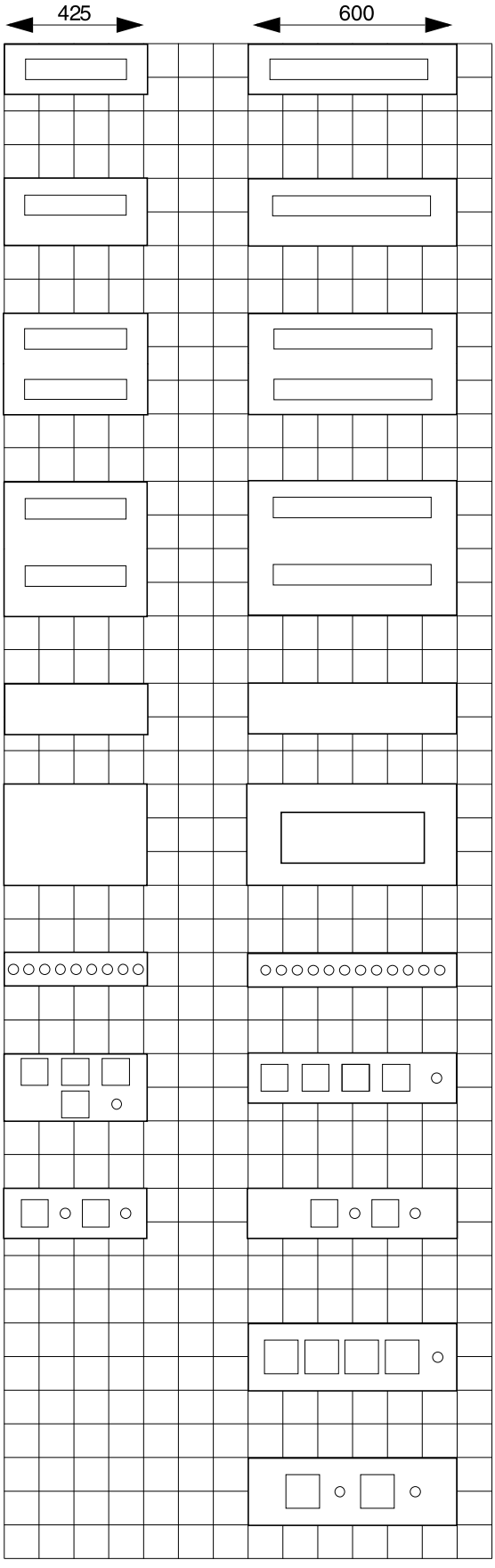
Fuse base or fuse switch disconnectors up to **250 A, 3 poles**
Type XNH1, 16 U = 400 mm

Fuse base or fuse switch disconnectors up to **400 A, 3 poles**
Type XNH2, 16 U = 400 mm

Fuse base or fuse switch disconnectors up to **630 A, 3 poles**
Type XNH3, 24 U = 600 mm

Module heights and components: Module covers for modular installation devices, measuring and command devices

Module width



fk4810-1143d_13_16A4

Modular installation devices /PKZ...
1 x 12 PE/1 x 24 PE, 6 U = 150 mm

1 x 12 PE/1 x 24 PE, 8 U = 200

2 x 12 PE/2 x 24 PE, 12 U = 300 mm

2 x 12 PE/2 x 24 PE, 16 U = 400 mm

Modules **for terminals**
6 U = 150 mm

12 U = 300 mm

Front covers
for **command and signalling devices**
9 x RMQ-Titan/12 x RMQ-Titan, 4 U = 100 mm

for **installation of measuring devices**
4 x 72 x 72 mm + 1 changeover contact
8 U = 200 mm/6 U = 150 mm

2 x 72 x 72 mm + 2 changeover contacts
6 U = 150 mm

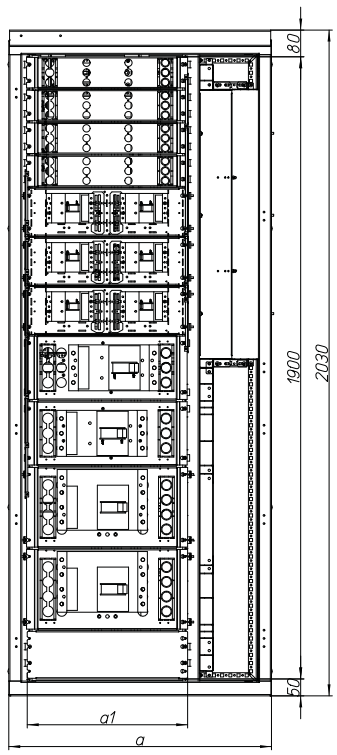
4 x 96 x 96 mm + 1 changeover contact
8 U = 200 mm

2 x 96 x 96 mm + 2 changeover contacts
8 U = 200 mm

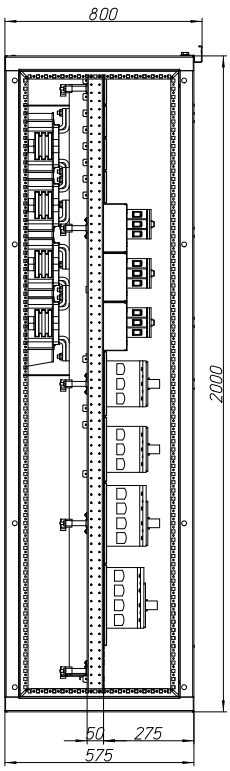
Dimensions

XF section with integrated NZM1-3 circuit breaker, Form 2, section depth 600 mm
XSMFIB0606 (type of fitting kit)
Fitting kit for modules/switchgear assemblies of up to 275 mm depth
Matching separation wall section/section = XPSS2006

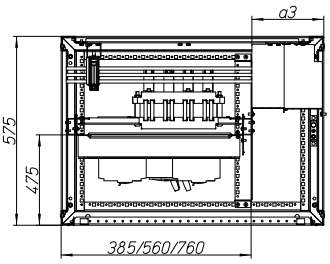
Side view



Front view



Top view



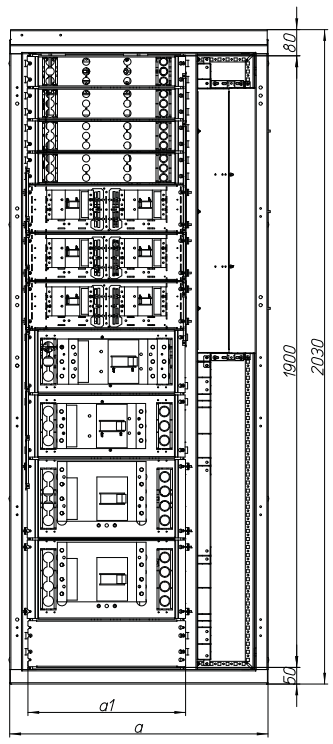
2b-D600.

Form 2b, section depth = 600 mm		
A = Section width	a1 = Module width	a3 = Width of cable area
600	314	190
800	314	390
800	489	215
1000	489	415
1200	489	615

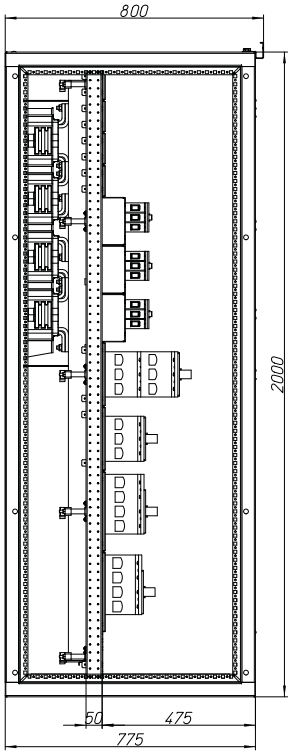
Dimensions

XF section with integrated NZM1-3 circuit breaker, Form 2, section depth 800 mm
XSMFIB0608 (type of fitting kit)
Fitting kit for modules/switchgear assemblies of up to 475 mm depth
Matching separation wall section/section = XPSS2008

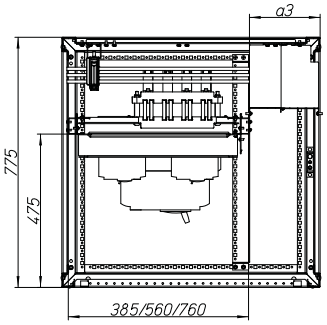
Side view



Front view



Top view



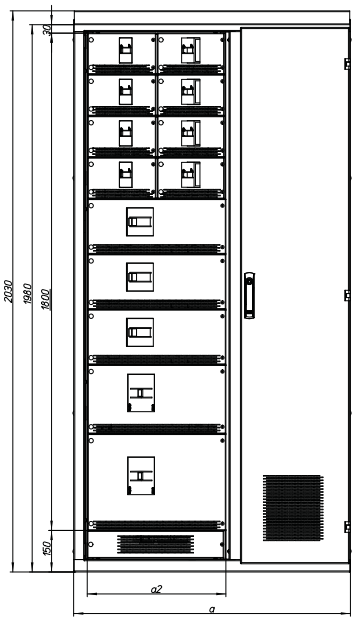
2b-D800

Form 2b, section depth = 800 mm		
A = Section width	a1 = Module width	a3 = Width of cable area
600	314	190
800	314	390
800	489	215
1000	489	415
1200	489	615

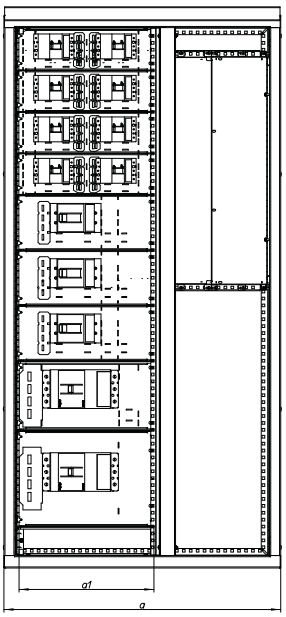
Dimensions

XF section with integrated NZM1-3 circuit breaker, Form 4, section depth 600 mm
XSMFDB(04)0606-N (type of fitting kit)
Fitting kit for modules/switchgear assemblies of up to 220 mm depth
Matching separation wall section/section = XPSS2006 (covers the entire side room) or XPSS2006-BF (covers the area from the kit [mounting side wall] to the rear wall)

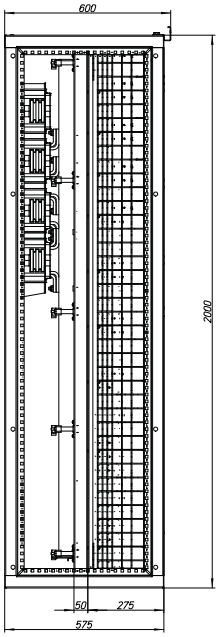
Side view
without side mounting panel



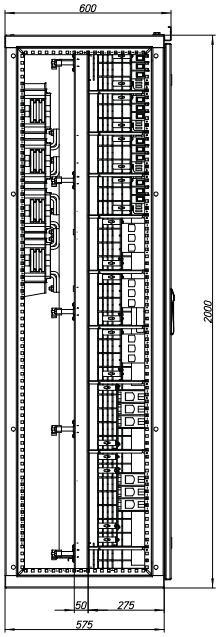
with side mounting panel



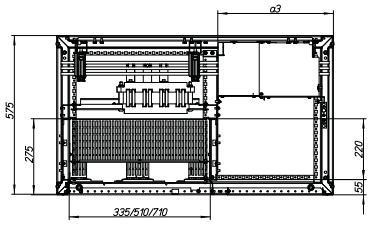
Front view
with front panels



without front panels



Top view



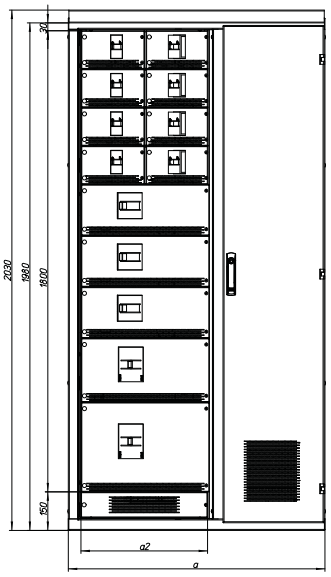
4b-D600

Form 4, section depth = 600 mm			
a = Section width	a1 = Module width	a2 = Width of front panelse	a3 = Cable connection area
600	314	325	190
800	314	325	390
800	489	500	215
1000	489	500	415
1200	489	500	615

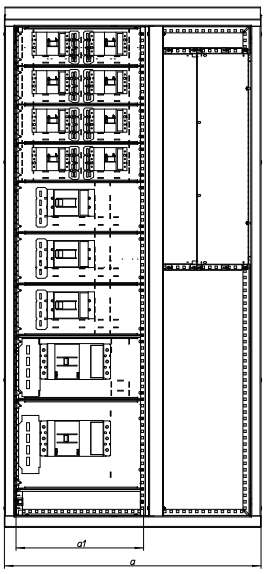
Dimensions

XF section with integrated NZM1-3 circuit breaker, Form 4, section depth 800 mm
XSMFDB(04)0608-N (type of fitting kit)
Fitting kit for modules/switchgear assemblies of up to 220 mm depth
Matching separation wall section/section = XPSS2008 (covers the entire side room) or XPSS2008-BF (covers the area from the kit [mounting side wall] to the rear wall)

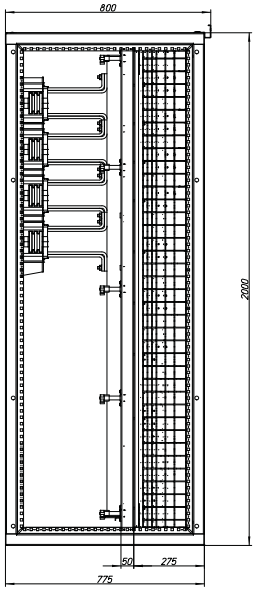
Side view
without side mounting panel



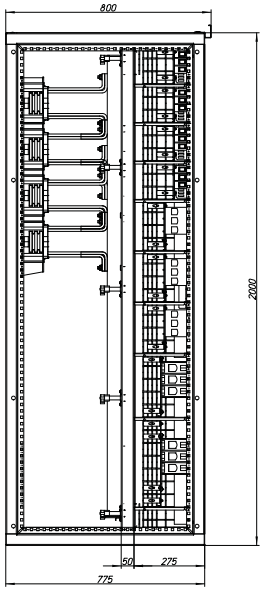
with side mounting panel



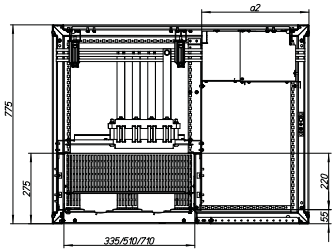
Front view
with front panels



without front panels



Top view



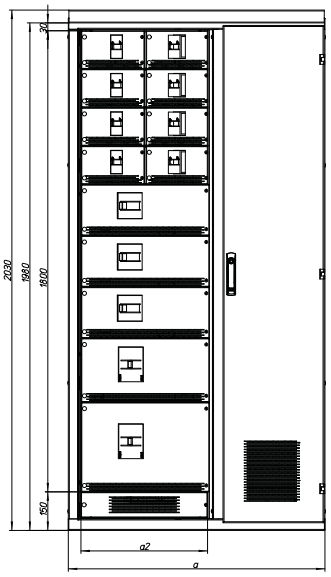
4b-D800

Form 4, section depth = 800 mm			
a = Section width	a1 = Module width	a2 = Width of front panelse	a3 = Cable connection area
600	314	325	190
800	314	325	390
800	489	500	215
1000	489	500	415
1200	489	500	615

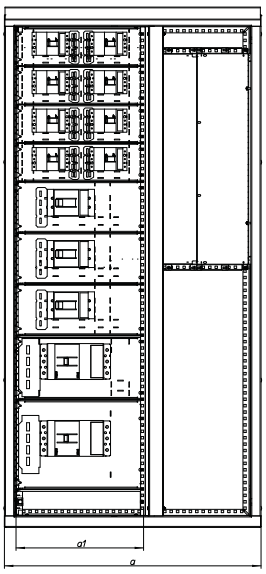
Dimensions

XF section with integrated NZM1-3 circuit breaker, Form 4, section depth 800 mm
XSMFDB0608-350-N (type of fitting kit)
Fitting kit for modules/switchgear assemblies of up to 395 mm depth
Matching separation wall section/section = XPSS 2008 (covers the entire side room) or XPSS2006-BF (covers the area from the kit [mounting side wall] to the rear wall). Du to the deeper mounting kit, the short partition wall must be used.

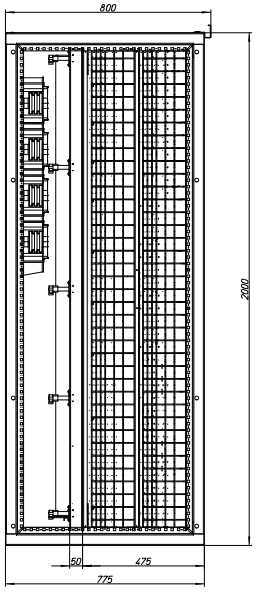
Side view
without side mounting panel



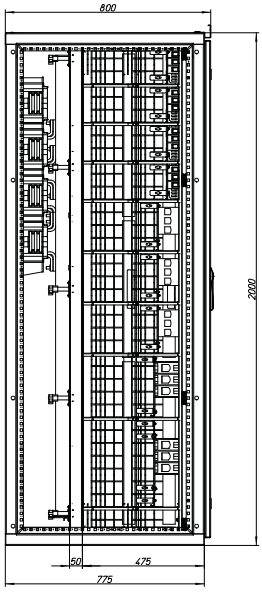
with side mounting panel



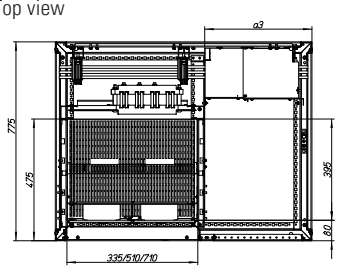
Front view
with front panels



without front panels



Top view



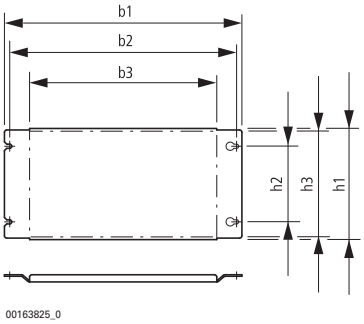
4b-D800-350

Form 4, section depth = 800 mm			
a = Section width	a1 = Module width	a2 = Width of front panelse	a3 = Cable connection area
600	314	325	190
800	314	325	390
800	489	500	215
1000	489	500	415
1200	489	500	615

Dimensions

XF section mounting plates

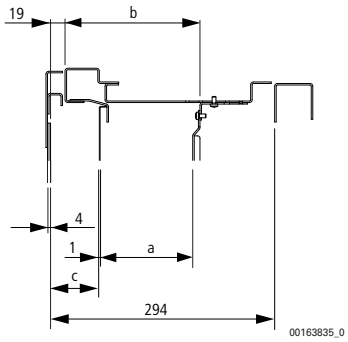
XMN....M...
Version II



Type	H1	B1	H2	B2	H3	B3
XMN130404M	97	314	50	300	90	247
XMN130406M	97	489	50	475	90	422
XMN230604M	147	314	100	300	140	247
XMN230606M	147	489	100	475	140	422
XMN230606MP	147	489	100	475	140	422
XMN330806M	197	489	150	475	190	422
XMN131204MV	297	314	250	300	290	247
XMN131206MV	297	489	250	475	290	422
XMN231604MV	397	314	350	300	390	247
XMN231606MV	397	489	350	475	390	422
XMN232404MV	597	314	550	300	590	247
XMN232406MV	597	489	550	475	590	422
XMN332404MV	597	314	550	300	590	247
XMN332406MV	597	489	550	475	590	422

XF section in Form 4, position for mounting plates and front covers

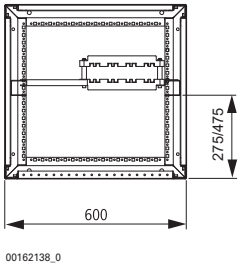
XSMFDb..., XMN....M... and XMN....C...



a	max. 193
b	max. 264
c	64

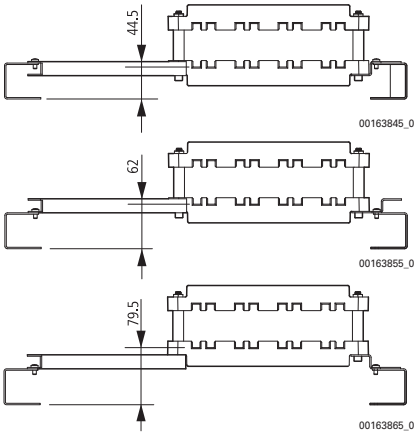
XF section with rear-mounted dropper bars for NZM1-3 circuit-breakers

XDSF...



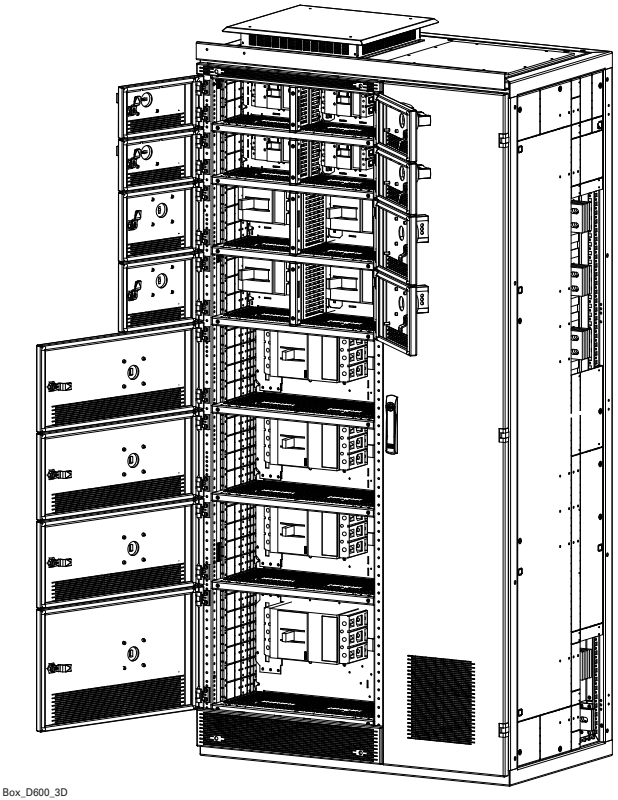
For the lowest position of the dropper bar, use the XADB06E/XADB08E bar end support.

Possible positionings XDSF...

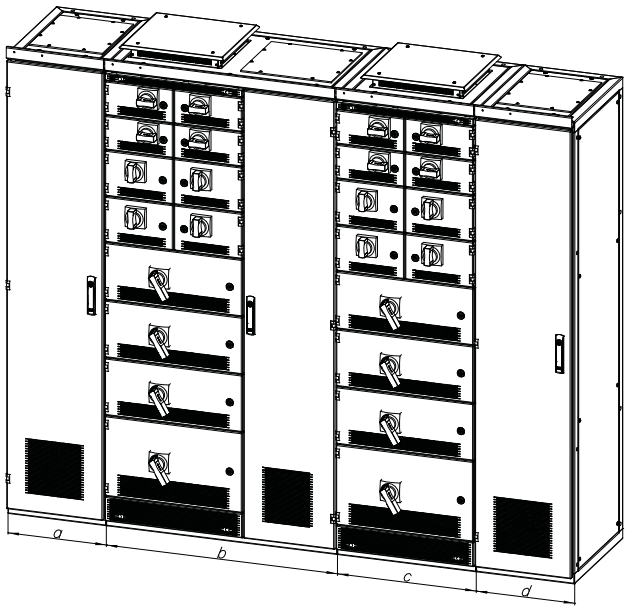


Box solution, Form 4 (Motor Control Center for fixed installation)

Form 4



Box_D600_3D



Box_LineUp

- in the widths of 800, 1000, 1200 mm as combined sections
  in the widths of 425, 600, 800 mm as switchgear + cable section
- module widths of 400/600/800 mm
- the switchgear area of each module is accessible via a separate door
- 3, 4, or 3+N poles
- MCCB' as fixed, plug-in or as withdrawable
- suitable for switchgear with remote operation
- to be operated from behind the door or with door-coupling rotary handle
- dropper bars of between 800 and 1600 A are possible
- blank and module plates for mounting outgoers

Switchgear area:

Switchgear to be operated from **behind the door** or with **door-coupling rotary handle**

· the switchgear area of each module is accessible via a separate door
· mounting of the switchgear on pre-drilled mounting plates
· doors with IP31 degree of protection, with holes for rotary drives
· switchgear doors, no distinction between combined sections and "switchgear sections only"

Dropper bars:

· center-to-center phase distance: 60 mm
· rated current: up to 1600 A
· Rated short-time withstand current I_{CW}: up to 80 kA

Cable connection area:

· cable connection either from the top or from the bottom, behind a separate door to the connection area
· the connection of the cables is implemented directly at the switchgear; should a higher degree of internalal separation be required, additional partitions can be installed. Functional area, switchgear area and terminal area.
· side-mounted cable-strain relief rails ensure a safe and accurate guidance of cables
· vertical PE, N or PEN rails are mounted in the cable-connection area and can be equipped with connections for any outgoing cable
· the cable-connection area can either be at the right or the left of the section
· where double modules are used, cable-connection areas are necessary on both sides
· cable-connection areas on both sides can be implemented by mounting several combined sections in a row, or by adding a general section that serves cable-guidance purposes only. General sections are available in widths of 300 mm to 800 mm (1000 + 1200 mm), as required

Explanations regarding the different module versions:

IP31 with ventilated module doors/single module

· no mirror-inverted set-up – cable area possible
· module doors can only be fitted on the left
· for single modules, the outgoing cable area is on the right
· comes with pre-cut installation holes for rotary drives

IP31 with ventilated module doors/single module

· cable area required on both left and right
· doors for double modules can be fitted on the left and right
· comes with pre-cut installation holes for rotary drives
· double modules available in NZM sizes 1 and 2
· if combined with single modules, these can only be fitted on the left, while the outgoing cable area will always be located on the right
· top panel, rear wall, module doors and door to the cable-connection area are ventilated
· this results in higher ratings

IP31 with blank, undrilled module doors

· mirror-inverted set-up is possible
· outgoing cable area can be on the left or right
· module doors do not come with pre-cut installation holes
· double modules are not possible
· top panel, rear wall, and door to the cable-connection area are ventilated
· somewhat lower rankings than if all planking elements were ventilated

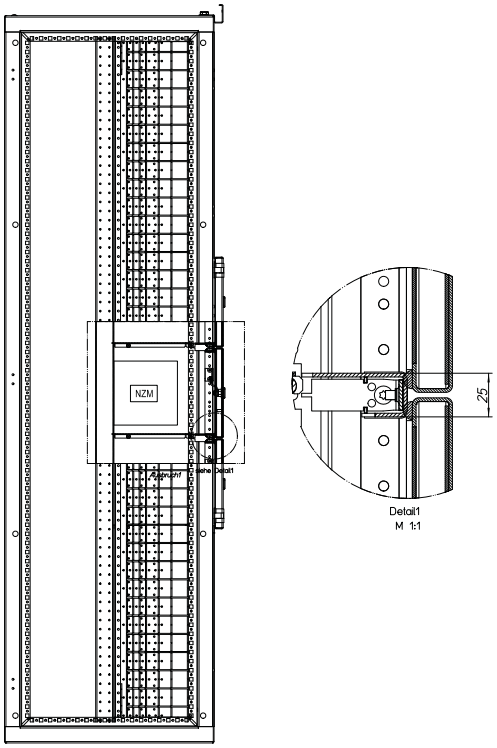
IP42 with blank, undrilled module doors

· mirror-inverted set-up is possible
· outgoing cable area can be on the left or right
· module doors do not come with pre-cut installation holes
· double modules are not possible
· top panel, rear wall, and door to the cable-connection area are ventilated

IP55

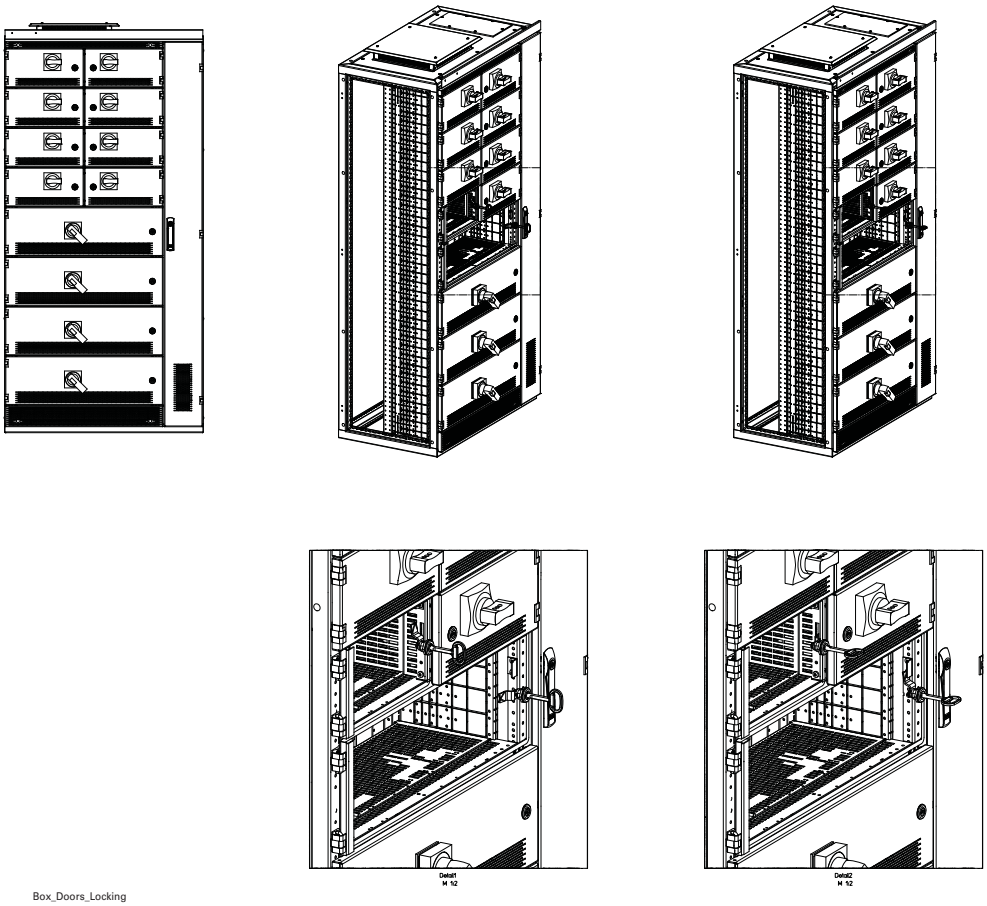
· mirror-inverted set-up is possible
· outgoing cable area can be on the left or right
· module doors do not come with pre-cut installation holes
· double modules are not possible
· top panel, rear wall, and door to the cable-connection area are closed

Set-up of the module doors/sealing surfaces



Box_Doors_Hor_Profile

Locks for module doors



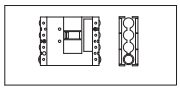
Box_Doors_Locking

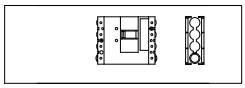
Box solution - heights and equipment

Module width 425 mm

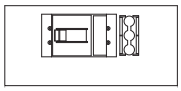
Module width 600 mm

Circuit breaker NZM1
3-, 4 poles up to 160 A, H = 200 mm, 8U
Mounting position: horizontal, installation type: fixed/ plug-in

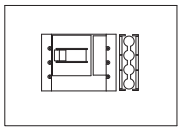


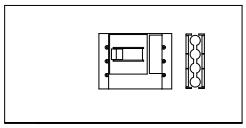


Circuit breaker NZM2
3-, 4 poles up to 300 A, H = 200 mm, 8U
Mounting position: horizontal, installation type: fixed



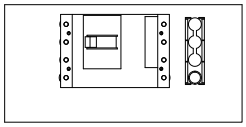
Circuit breaker NZM2
3-, 4 poles up to 300 A, H = 300 mm, 12U
Mounting position: horizontal, installation type: fixed





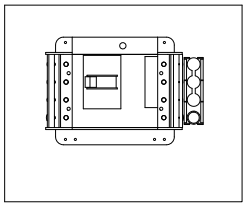
not available in 425 mm

Circuit breaker NZM3
3-, 4-, 3+N poles up to 630 A, H = 300 mm, 12U
Mounting position: horizontal, installation type: fixed/ plug-in

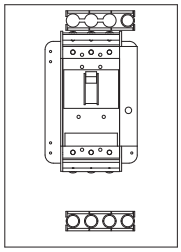


not available in 425 mm

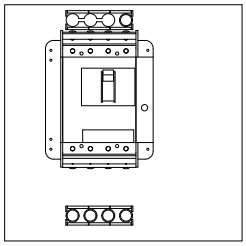
Circuit breaker NZM3
3-, 4-, 3+N poles up to 630 A, H = 500 mm, 20U
Mounting position: horizontal, installation type: fixed/ plug-in/withdrawable



Circuit breaker NZM3
3-, 4-, 3+N poles up to 630 A, H = 600 mm, 24U
Mounting position: vertical, installation type: fixed/plug-in/withdrawable

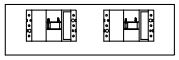
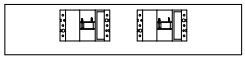
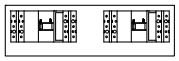
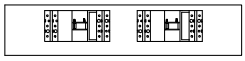
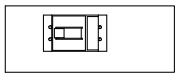
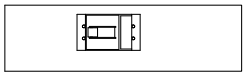
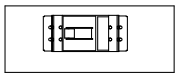
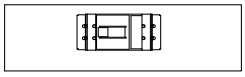
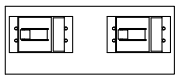
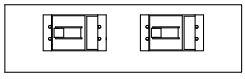
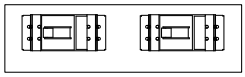
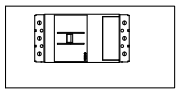
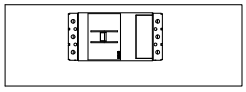
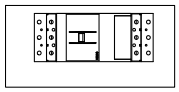
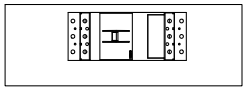
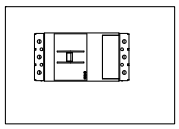
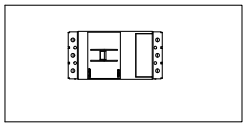
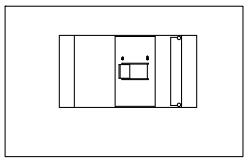


BS_425_NZM



BS_600_NZM

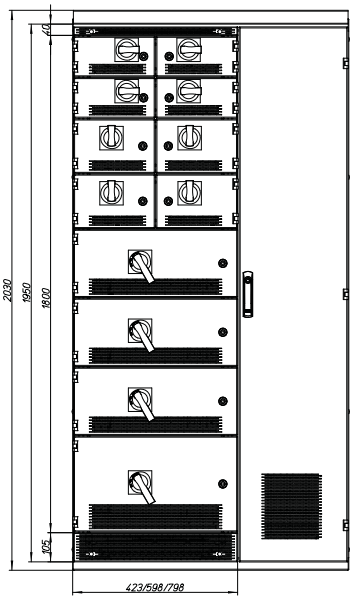
Box solution - heights and equipment

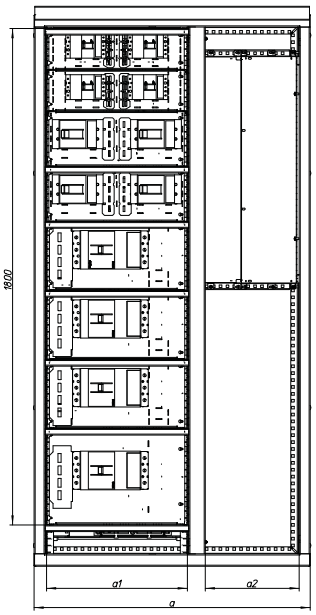
	Module width 600 mm	Module width 800 mm
Circuit breaker NZM1, double module 3-, 4-, 3+N poles, H = 150 mm / 6U		
Circuit breaker NZM1, with plug base, double module 3-, 4-, 3+N poles, H = 150 mm / 6U		
Circuit breaker NZM2 3-, 4-, 3+N poles, H = 200 mm / 8U		
Circuit breaker NZM2, with plug base 3-, 4-, 3+N poles, H = 200 mm / 8U		
Circuit breaker NZM2, double module 3-, 4-, 3+N poles, H = 200 mm / 8U		
Circuit breaker NZM2, with plug base, double module 3-, 4-, 3+N poles, H = 200 mm / 8U	not available in 600 mm	
Circuit breaker NZM3, up to 400 A 3-, 4-, 3+N poles, H = 250 mm / 10U		
Circuit breaker NZM3, with plug base, up to 400 A 3-, 4-, 3+N poles, H = 250 mm / 10U		
Circuit breaker NZM3, up to 630 A 3-, 4-, 3+N poles, H = 350 mm / 14U		
Circuit breaker NZM3, up to 1250 A 3-, 4-, 3+N poles , H = 450 mm / 18U	not available in 600 mm	
	BS_600_NZM_box	BS_800_NZM_box

Dimensions

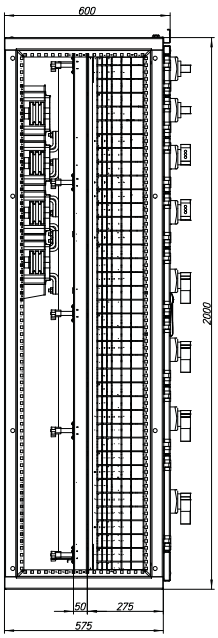
XF section/box solution with circuit breaker NZM1-3, Form 4, section depth 600 mm
XSMFDB0606-BS-N (type of fitting kit)
Fitting kit for modules/switchgear assemblies of up to 275 mm depth

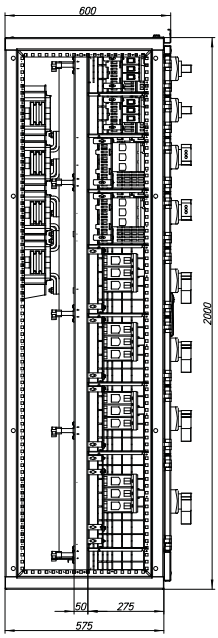
Front view





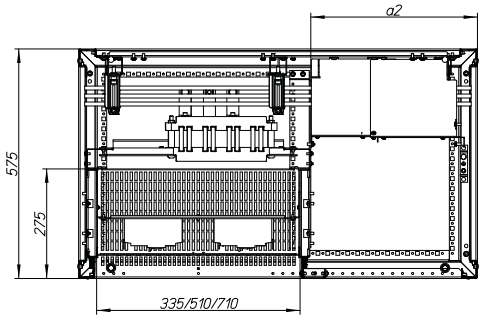
Side view





Box_D600

Top view



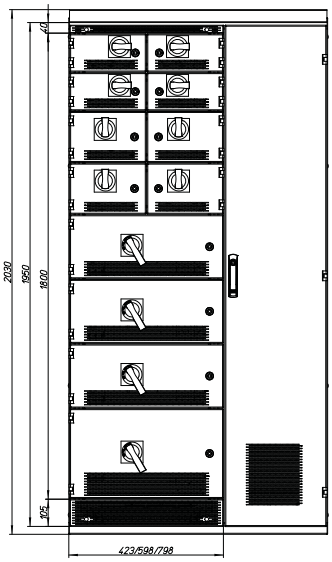
Box_D600

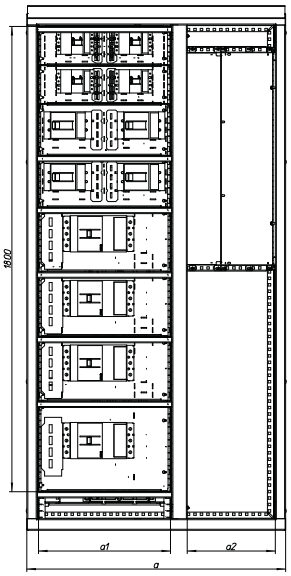
Box Solution, section depth = 600 mm		
Section width	Module width	a2 = Width of cable area
600	335	190
800	335	390
800	510	215
1000	510	415
1200	510	615

Dimensions

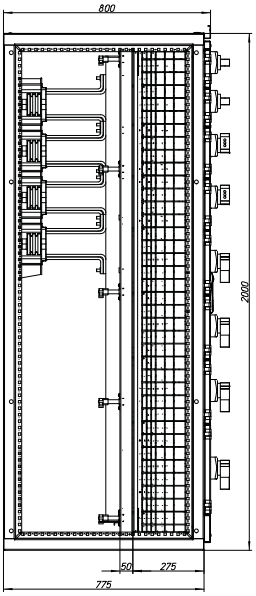
XF section/box solution with circuit breaker NZM1-3, Form 4, section depth 800 mm
XSMFDB0608-BS-N (type of fitting kit)
Fitting kit for modules/switchgear assemblies of up to 275 mm depth

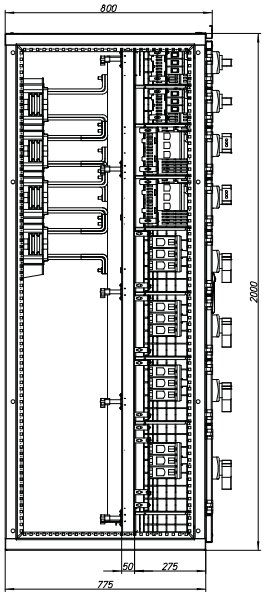
Front view





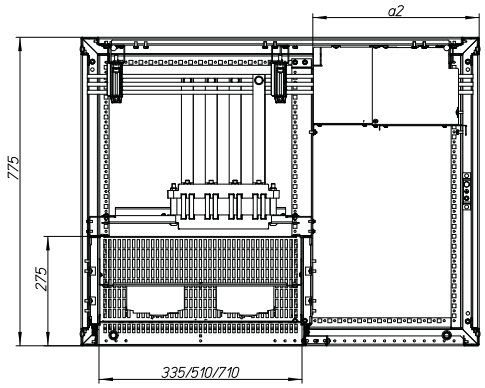
Side view





Box_D800

Top view



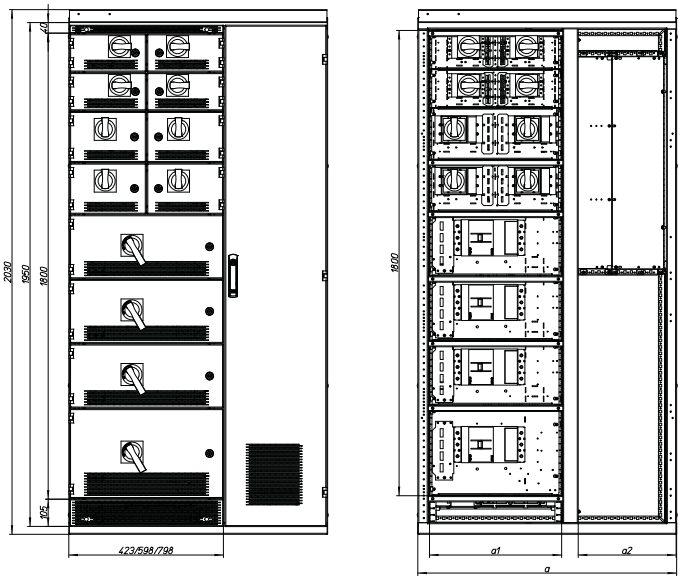
Box_D800

Box Solution, section depth = 800 mm		
Section width	Module width	a2 = Width of cable area
600	335	190
800	335	390
800	510	215
1000	510	415
1200	510	615

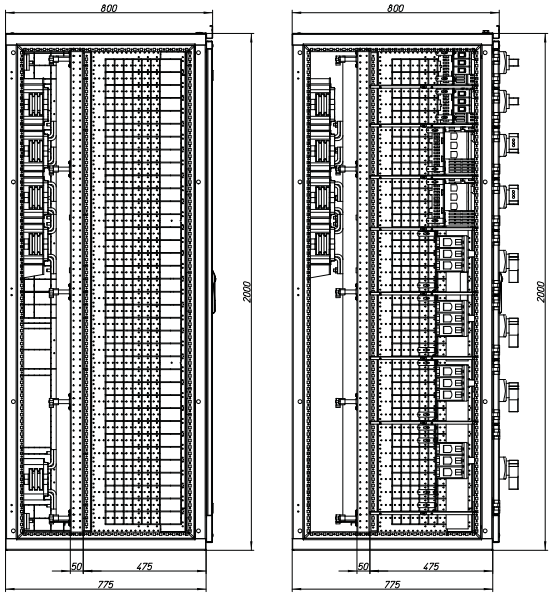
Dimensions

XF section/box solution with circuit breaker NZM1-3, Form 4, section depth 800 mm
XSMFDB0608-BS-350-N (type of fitting kit)
Fitting kit for modules/switchgear assemblies of up to 450 mm depth

Front view

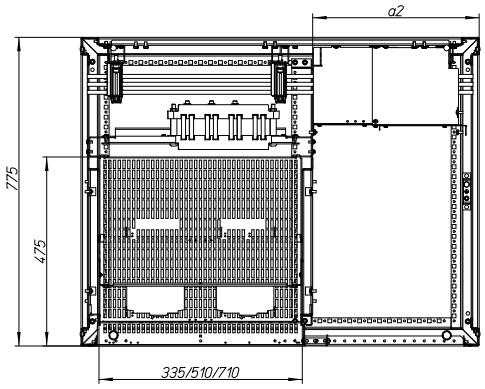


Side view



Box_D800_350

Top view



Box_D800_350

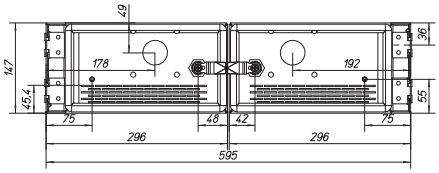
Box Solution, section depth = 800 mm		
Section width	Module width	a2 = Width of cable area
600	335	190
800	335	390
800	510	215
1000	510	415
1200	510	615

Dimensions

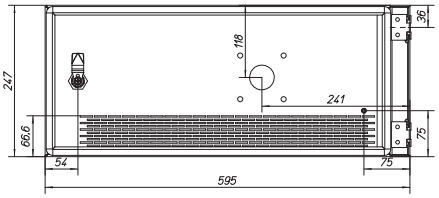
Module doors for box solution, module width 600 mm
IP31 degree of protection: includes punching and installation holes for rotary drives
IP55 degree of protection: no ventilation or punching/installation holes for rotary drives

Module width 600 mm

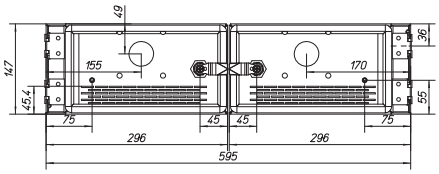
192720 - XSDMV-140606-BF-2



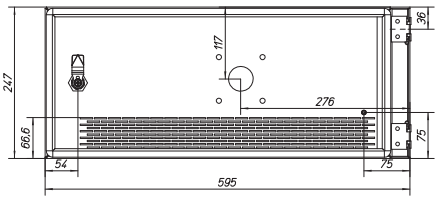
192616 - XSDMV-341006-BF-400



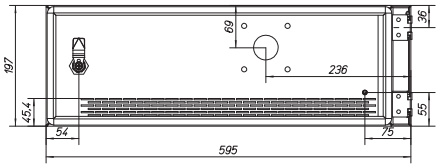
192721 - XSDMV-140606-BF-2-PI



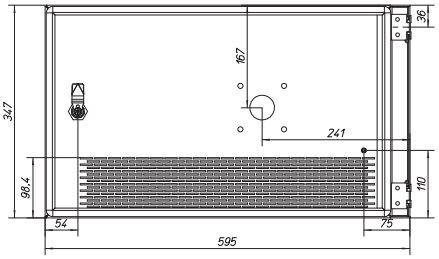
192617 - XSDMV-341006-BF-400-PI



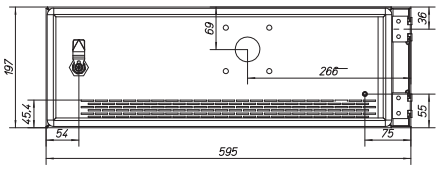
192724 - XSDMV-240606-BF

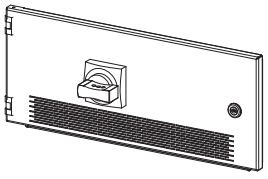


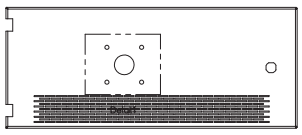
192619 - XSDMV-341406-BF-630



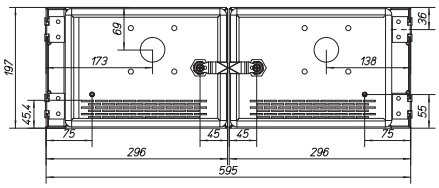
192610 - XSDMV-240606-BF-PI

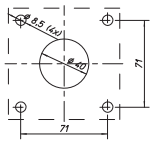






192613 - XSDMV-240606-BF-2





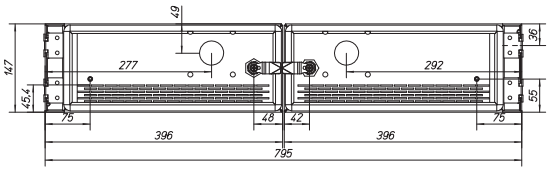
Mas_Box_Tueren_600

Dimensions

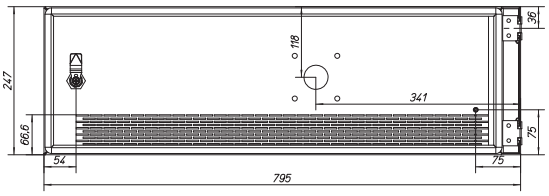
Module doors for box solution, module width 800 mm
IP31 degree of protection: includes punching and installation holes for rotary drives
IP55 degree of protection: no ventilation or punching/installation holes for rotary drives

Module width 800 mm

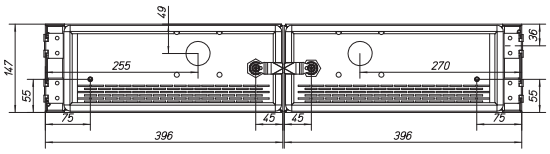
192722 - XSDMV-140608-BF-2



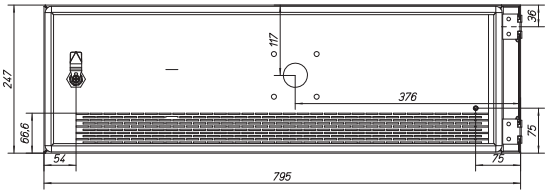
192618 - XSDMV-341008-BF-400



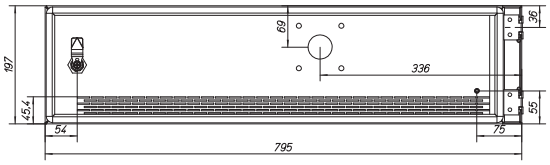
192723 - XSDMV-140608-BF-2-PI



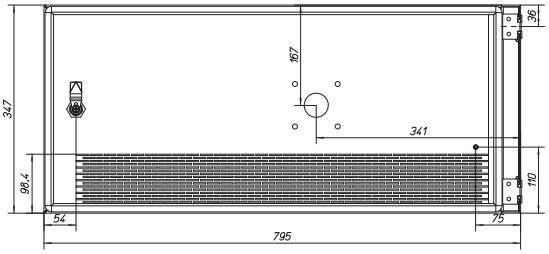
192621 - XSDMV-341008-BF-400-PI



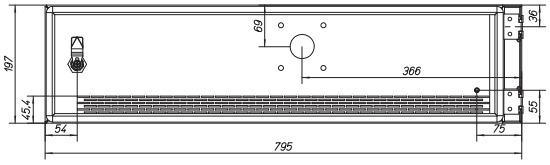
192611 - XSDMV-240608-BF



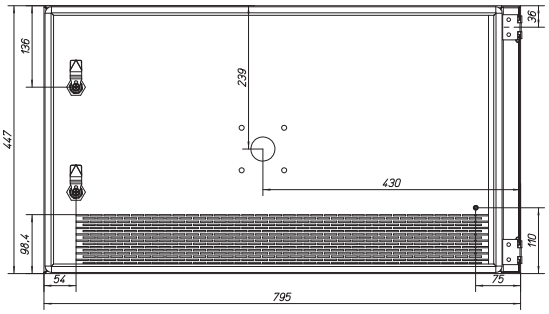
192620 - XSDMV-341408-BF-630



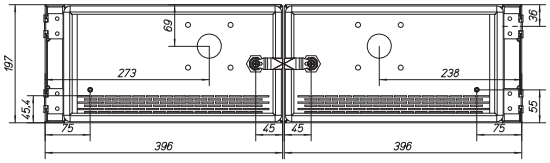
192612 - XSDMV-240608-BF-PI

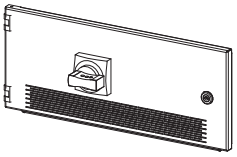


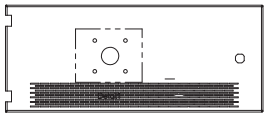
192622 - XSDMV-441808-BF



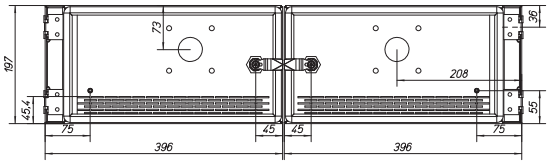
192614 - XSDMV-240608-BF-2

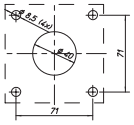






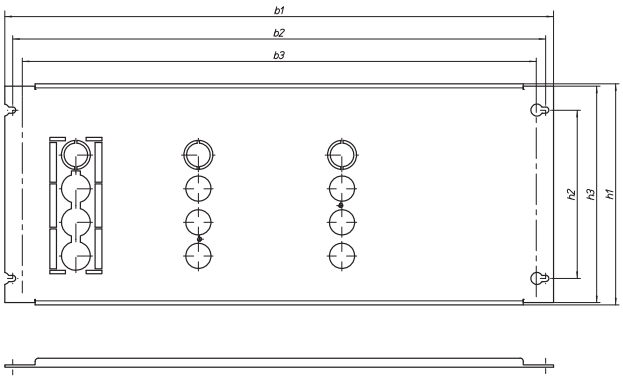
192615 - XSDMV-240608-BF-2-PI





Dimensions

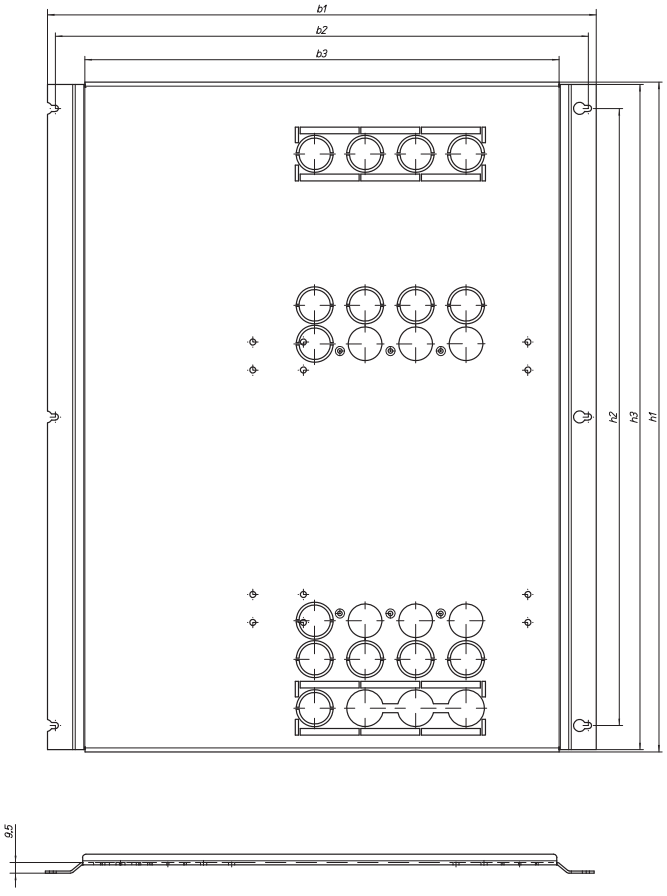
XF section, mounting plates for box solution
XMN....M...-BS
Version I



BS_montageplatten_V1

Type	H1	B1	H2	B2	H3	B3
XMN130804M-BS	197	314	150	300	190	283
XMN230804M-BS	197	314	150	300	190	283
XMN241204M-BS	297	314	250	300	290	283
XMN130806M-BS	197	489	150	475	190	458
XMN230806M-BS	197	489	150	475	190	458
XMN241206M-BS	297	489	250	475	290	458
XMN341206M-F-BS	297	489	250	475	290	458

Version II

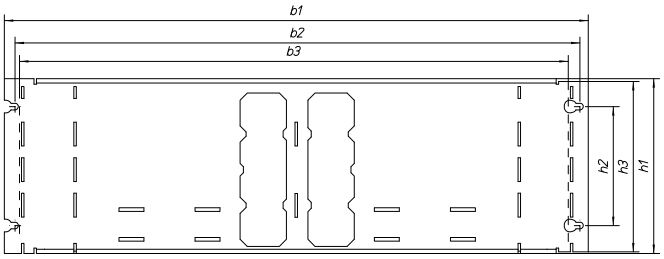


BS_montageplatten_V2

Type	H1	B1	H2	B2	H3	B3
XMN342404M-BS	597	314	550	300	590	247
XMN342006M-W-BS	497	489	450	475	490	422
XMN342406M-BS	597	489	550	475	590	422

Dimensions

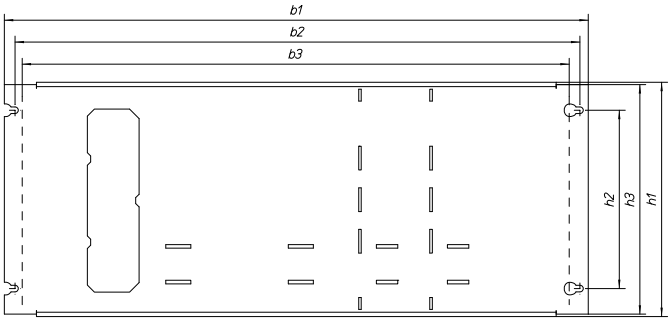
Dual design



Box_Montageplatten

Type	H1	B1	H2	B2	H3	B3
192709 - XMN140606-BF-2	147	491	100	475	143	458
192710 - XMN140608-BF-2	147	691	100	675	143	658
192713 - XMN240806-BF-2	197	491	150	475	193	458
192714 - XMN240808-BF-2	197	691	150	675	193	658

Single design



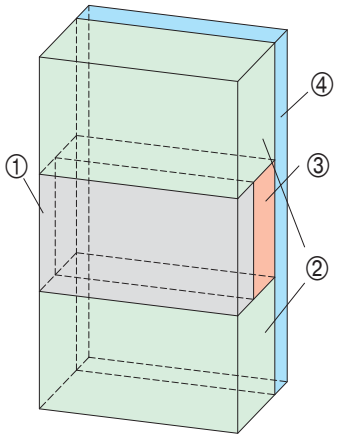
Box_Montageplatten

Type	H1	B1	H2	B2	H3	B3
192711 - XMN240806-BF	197	491	150	475	193	458
192712 - XMN240808-BF	197	691	150	675	193	658
192715 - XMN341006-400-BF	237	491	200	475	233	458
192716 - XMN341008-400-BF	238	691	200	675	234	658
192717 - XMN341406-630-BF	341	491	300	475	337	458
192718 - XMN341408-630-BF	347	691	300	675	343	658
192719 - XMN441808-BF	440	691	400	675	436	658

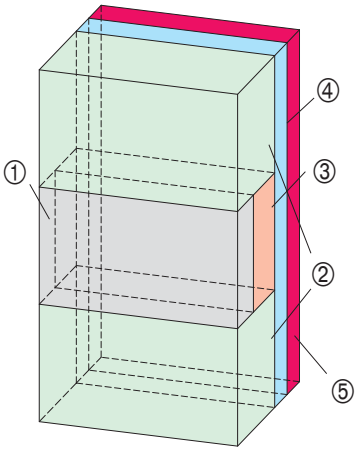
XF Outgoing sections for Fixed Design - Fuse Strips

Functional areas

Busbar rear-mounted (vertical switchgear installation)



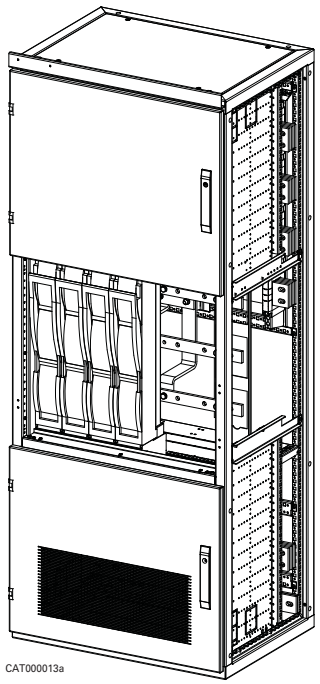
Funktionsr_SL



Funktionsr_SL_5000

1 Switchgear area
2 Cable connection area
3 Dropper bars
4 Main busbars
5 Additional main busbar area for 5000 A

For fuse switch disconnectors


CAT000013a

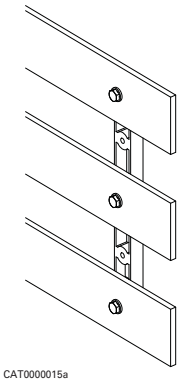
Please consider the max. current carrying capacity of the fuse strips depending on the ambient temperature, the degree of protection and the number of fuse strips per section according to the technical xEnergy data.

· for **Eaton fuse switch disconnector strips** of the FCF and NHW-SLS series
· with single interruption
· In a **vertical** position

Switchgear area:
· **Operation** of the fuse strips either **from outside** or **behind the door**
· Connection of the fuse strips on the incoming side on a horizontally aligned dropper bar system
· Thanks to a cover frame depending on the section width the fuse strips are connected to the fitting frame. The cover frame (**XSMLV-I-CH..**) is not part of the fitting kit and has to be ordered separately in the corresponding section width.
· Fuse strips are used with a transformer:
For the NHW-SLS series, transformers suitable for the system can be integrated at any time.
For the FCF series, the type designation of the fuse strips has to end on -CTO, this means that the fuse strip is suitable for the installation of transformers; it is not necessary to add any extra depth in your calculation.

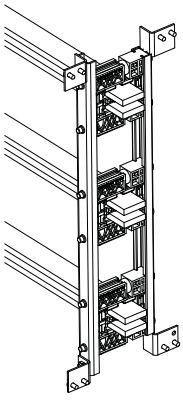
Suitable fuse strips are listed in the catalogue "Switchboard accessories" on www.xEnergy-Partner.com or www.eaton.eu

Dropper bar systems:


CAT0000015a

Vertically aligned bars/single bar

· Center-to-center phase distance:	185 mm
· Rated current:	800-1600 A
· Rated short-circuit strength I_{cw}:	50 kA
· Dropper bar supports:	XDSLH
· Dimensions of Cu bars:	1x40/10, 1x60/10, 1x80/10, 1x100/10

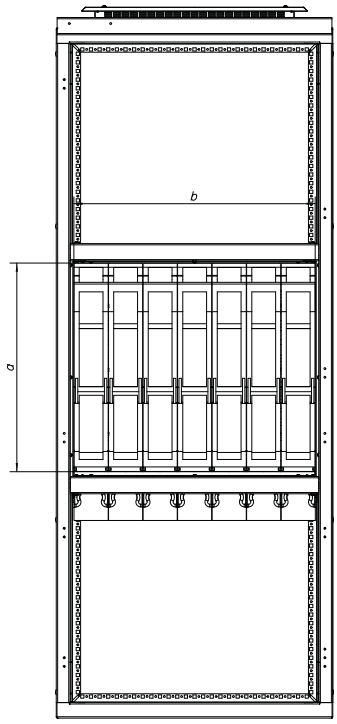

CAT0000015b

Vertically aligned bars/double bar

· Center-to-center phase distance:	185 mm
· Rated current:	1600-3200 A
· Rated short-circuit strength I_{cw}:	up to 80 kA
· Dropper bar supports:	XDSF-XX-SL-D
· Dimensions of Cu bars:	2x40/10, 2x60/10, 2x80/10, 2x100/10

Fixed design for fuse switch disconnectors - Dimensions

Installation area

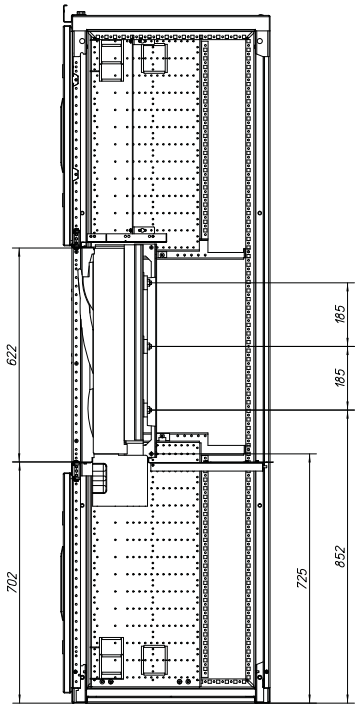


CAT0000013d

Section width in mm	Max. installation area, width in mm, with transport separation	Max. installation area, width in mm, without transport separation	Installation height in mm
b			a
600	400	500	605
800	600	700	605
1000	800	900	605

Typ	I_e up to in A	Size in mm
SL00	160	50
SL1	250	100
SL2	400	100
SL3	630	100

Cable connection area



CAT000014b

Cable connection area:
- cable connection can be done from the top and/or from the bottom
- connections of the fuse strips can be covered and insulated individually
- cable strain relief rails provide for safe guidance of outgoing cables
- access to the connection area is possible through a separate door to the cable connection area; the connection area is separated from the other functional areas
- areas not used for cable insertion can be used for additional equipment such as disconnect terminals, measuring devices or MCBs
- with the EVEN type of connection you will need an extra separation panel in the width of the section (XPLB....) to build a barrier between functional, cable connection and switchgear area.

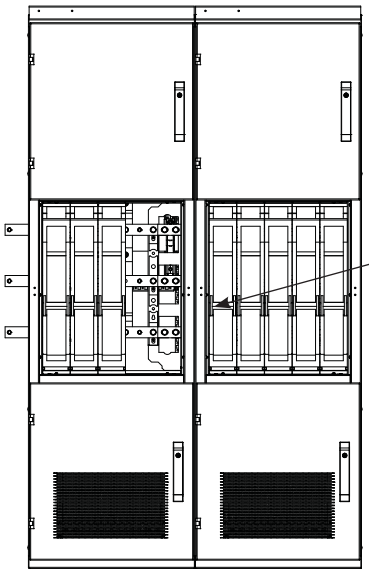
Fixed design for fuse switch disconnectors with section dropper bar across two sections

Add-on/connect
Single and double busbar system

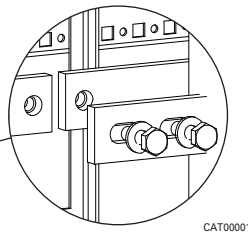
- Easy connection of dropper bars from section to section by means of flat copper straps (thickness of the connection straps of 10 and 12 mm) which - after mechanically connecting the switchboards - are pushed over the dropper bars of the bars that have to be connected and can then be tightened at the corresponding torque using a torque wrench. In order to make the connection of the dropper busbars as easy as possible, you can use the mounting space of a fuse strip. Therefore one of the mounting spaces at the very end (either on the right or left side - whichever you prefer) must stay free for the bar connection. Once you have finished connecting the busbars, you can fix an empty-space cover in front of the separating point.
- Of course it is also possible to install the dropper busbar in one piece across several switchboards (without any separation for transport purposes), provided the situation at the customer's is suitable for bringing the combined switchboards into the building.
- Another possibility for connecting the dropper busbars is using an add-on frame. If you opt for this solution, as of the moment of mounting the copper bars you have to bear in mind that they will stand out of the switchboards by the width of the add-on frame.

Where several SL-I sections are added next to each other, you might even be able to do without the main busbar (depending on the application). By using dropper busbars running across several sections, you can save up to 40% of the copper required.

Add-on of single/vertical bar systems



CAT000013b



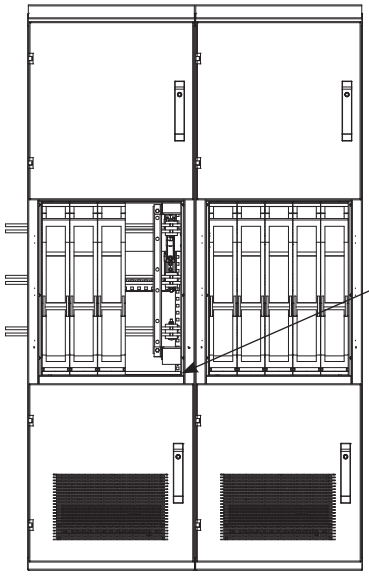
CAT000013c

Use connection straps of the same crosssection as the dropper bar.

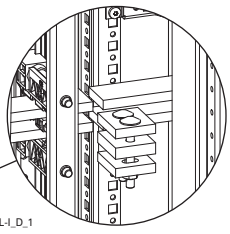
Material thickness 10 mm.

The exact setup has to be done according to the respective instructions.

Add-on of double/horizontal bar systems



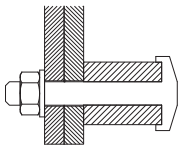
SL-I_D



SL-I_D_1

The Cu connection straps have to be positioned between, on top of and below the dropper bars. For the strap in the middle you need to use flat copper of 12mm thickness. For the other two straps a material thickness of 10 mm will do.

The exact setup has to be done according to the respective instructions.

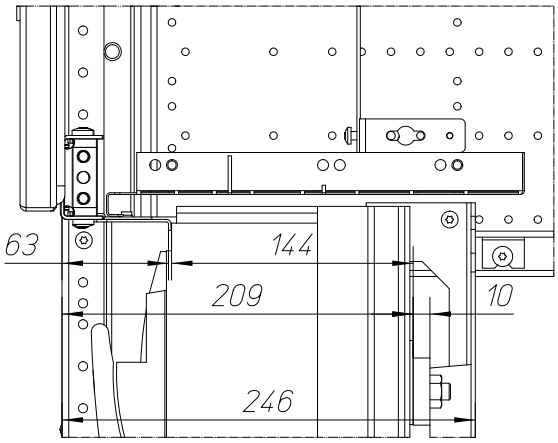


XSMLV_I_Detail_a

Individual holes punched into the dropper bar ensure that the space between the connections from the main busbar to the dropper bar can be used for accommodating fuse strips.

Fixed design for fuse switch disconnectors with section dropper bar across two sections - Dimensions

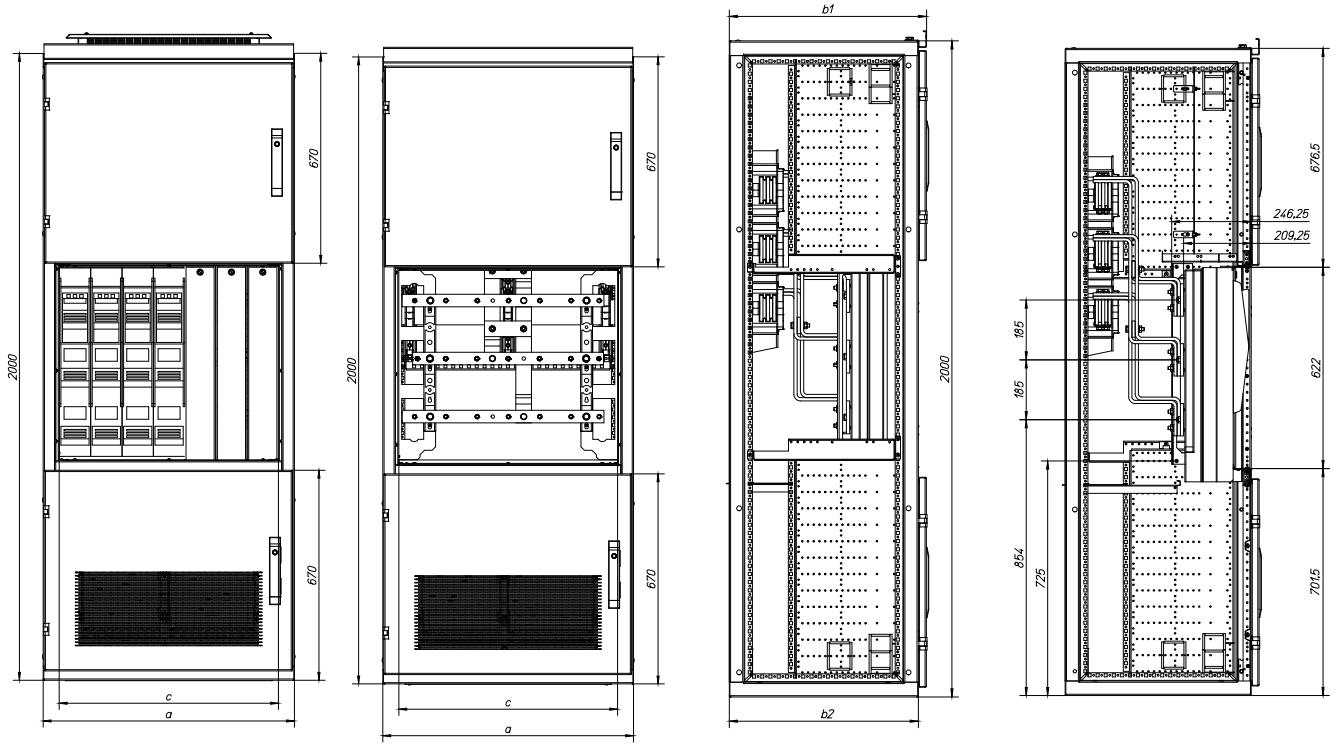
Side view: Detailed dimensions horizontale partition



CAT000014c

Fixed design for fuse switch disconnectors with section dropper bar across two sections - Dimensions

Detail views with Single Busbar



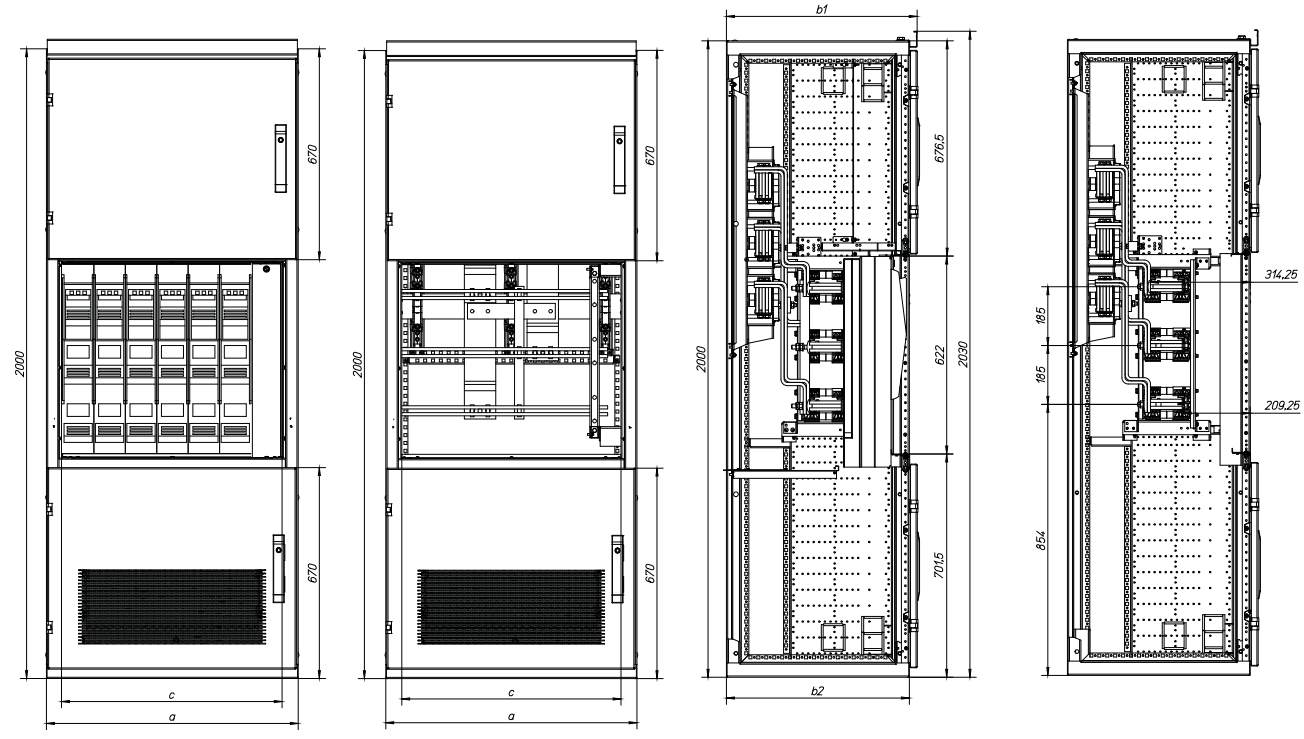
CAT0000016_SL_3

a	c
600	500
800	700
1000	900

c = possible installation space for devices

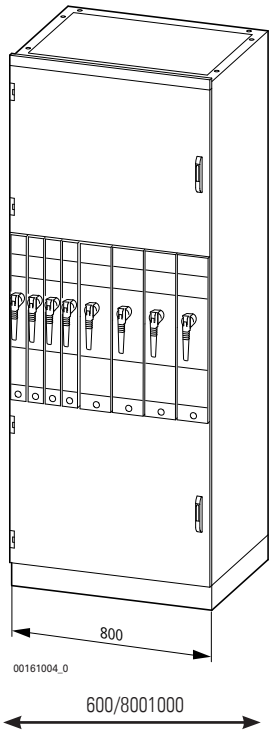
b1	b2
600	575
800	775
1000	975

Detail views with Double Busbar



CAT0000017_SL-I_D

For switch fuse units



Fuse strips can only be used with rear-mounted busbars. Please respect the max. current carrying capacity of the fuse strips depending on the ambient temperature, the degree of protection and the number of fuse strips per section in accordance with the xEnergy Main technical data.

Vertical installation:

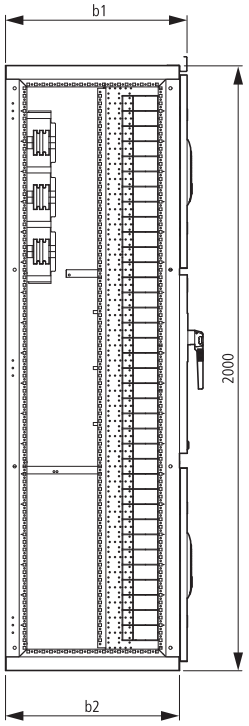
- Connection of the switch fuse strips on the incoming side to a vertically arranged dropper bar system
- Cable connection is implemented from the top or bottom
- The connection area is accessible via a separate door to the cable connection area
- Areas not used for cable insertion can be used for additional equipment, e.g. for controlgear
- **Operation** of the switchgear **from outside**

Typ	I_e up to in A	Size in mm
PIFT00	160	50
PIFT1	250	75
PIFT2	400	150
PIFT3	630	150

Section width mm	max. Installation area mm
600	500
800	700
1000	900

Dimensions

XR section with incorporation of PIFT switch fuse units, vertical
XSMSV...08



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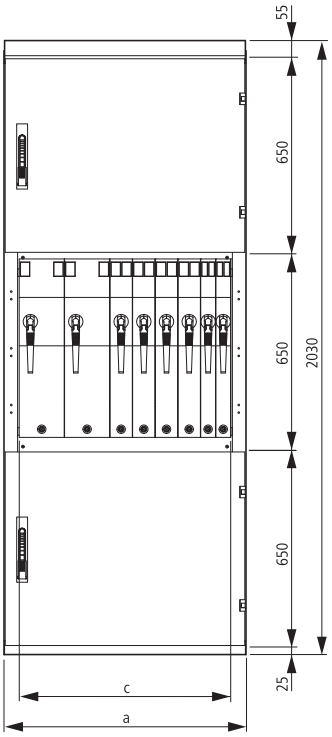

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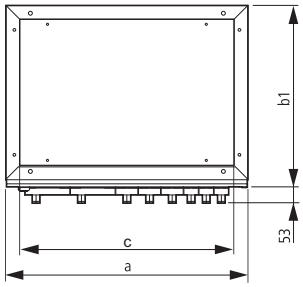


00162379_0

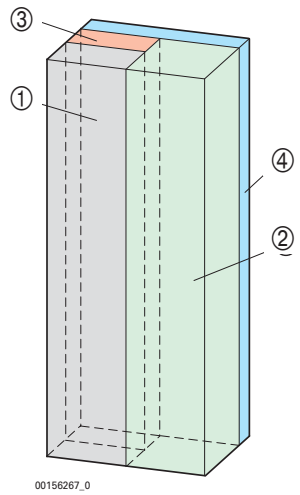
b1	b2
600	575
800	775

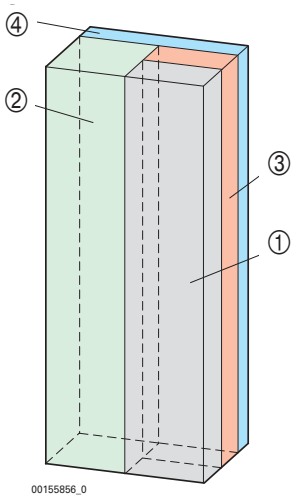
a	c
600	600
800	700
1000	900

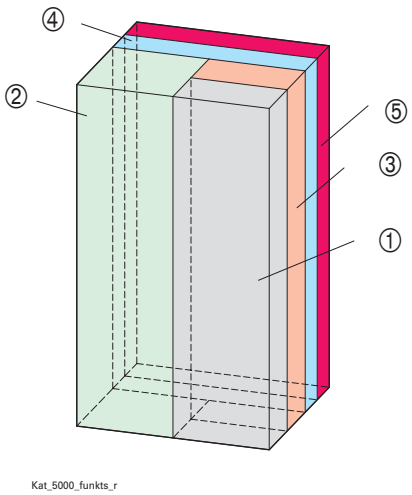
XR Outgoing sections

Functional areas

Busbar rear-mounted (horizontal switchgear installation)







1 Switchgear area
2 Cable connection area
3 Dropper bars
4 Main busbars
5 Additional main busbar area for 5000 A

XR Mixed Outgoing Sections

General information:
XR Mixed is the basis for setting up removable (plug-in) modules and fixed modules in a mixed way in one and the same functional area. As a general rule, it is possible to mount removable modules, PIFT fuse strips, fixed modules/Box Solution modules. Of course it is also possible to set up these modules in different versions. So it is possible to set up an internalal separation of Form 2b, however, they can be upgraded to accomplish Form 4/Type 7 (acc. to British Standard).

Fitting kits:

There are 3 versions of fitting kits available:

1) Fitting kit - level 0: PIFT modules are level with the frame profile
2) Fitting kit - level -50: PIFT modules are 50 mm behind the frame profile
3) Fitting kit - level -125: PIFT modules are 125 mm behind the frame profile (only for a section depth of 800 mm).

With all three fitting kits it is of course also possible to install removable modules or fixed modules. But the mounting depth available will vary for every fitting kit. The module doors are screw-fixed at the left front height profile.

Mounting depths available when using removable modules (from the front edge of the mounting plate to the inner side of the module door):

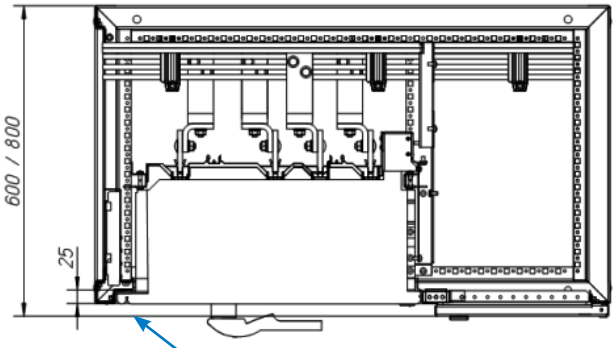
1) Fitting kit level 0: 235 mm
2) Fitting kit level -50: 285 mm
3) Fitting kit level -125: 335 mm

Detailed explanation of fitting kits:

Level 0

- No doors possible in front of the PIFT
- 3/4-pole PIFT is possible
- Max. installation depth for fixed modules and Box Solution modules = 230 mm (mounting plate – door)
- Suitable for section depths of 600, 800, 1000 mm

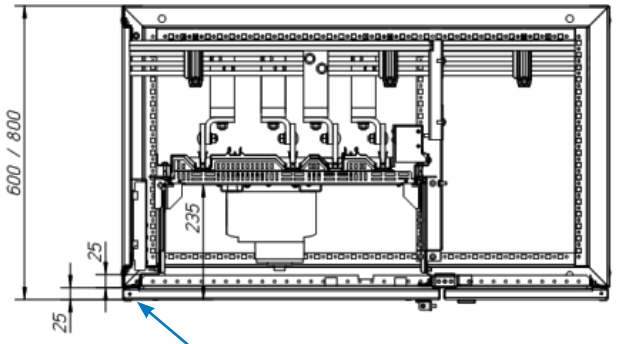
Installation of PIFT modules



XR_Einbausaetze_0_PIFT

PIFT are level with the frame.
Box Solution doors rest on the frame.

Installation of switchgear modules



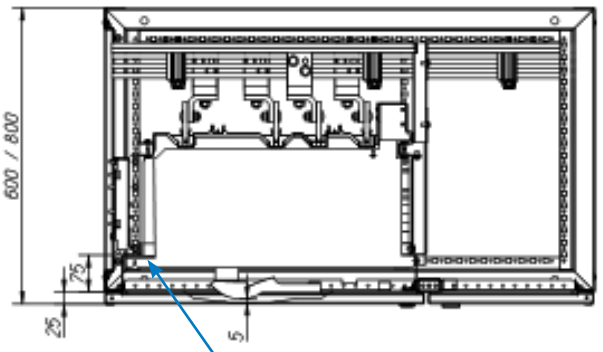
XR_Einbausaetze_0_SG

Box Solution doors rest on the frame.

Level -50

- Module doors in front of the PIFT are possible
- 3-pole PIFT with door is possible, 4-pole PIFT is possible without a door
- Max. installation depth for fixed modules and Box Solution modules = 280 mm (mounting plate – door)
- Suitable for section depths of 600, 800, 1000 mm

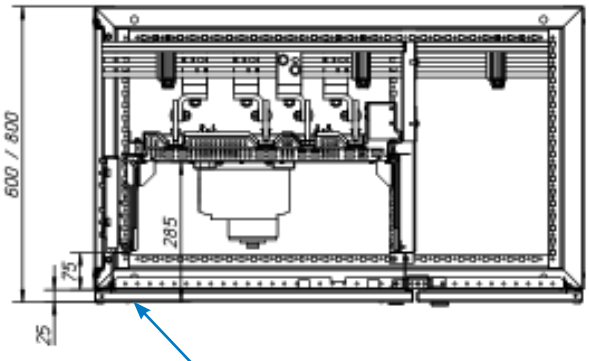
Installation of PIFT modules



XR_Einbausaetze_50_PIFT

The support surface of the PIFT modules is placed 75 mm deeper than the frame.

Installation of switchgear modules



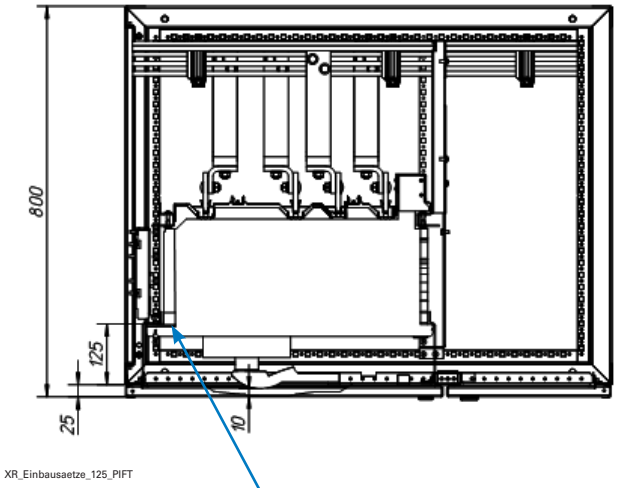
XR_Einbausaetze_50_SG

Box Solution doors rest on the frame.

Level -125

- Module doors are possible in front of the PIFT inserts
- 3/4-pole PIFT are possible behind the door
- Max. installation depth for fixed modules and Box Solution modules = 330 mm (mounting plate – door)
- Suitable for section depths of 800+1000 mm

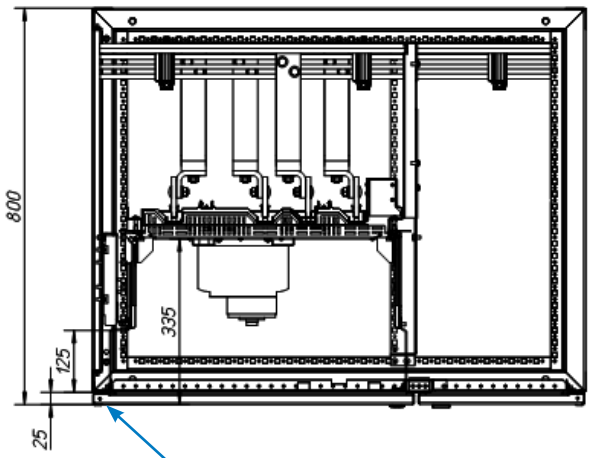
Installation of PIFT modules



XR_Einbausaetze_125_PIFT

The support surface of the PIFT modules is placed 125 mm deeper than the frame.

Installation of switchgear modules



XR_Einbausaetze_0_SG

Box Solution doors rest on the frame.

Section setup:

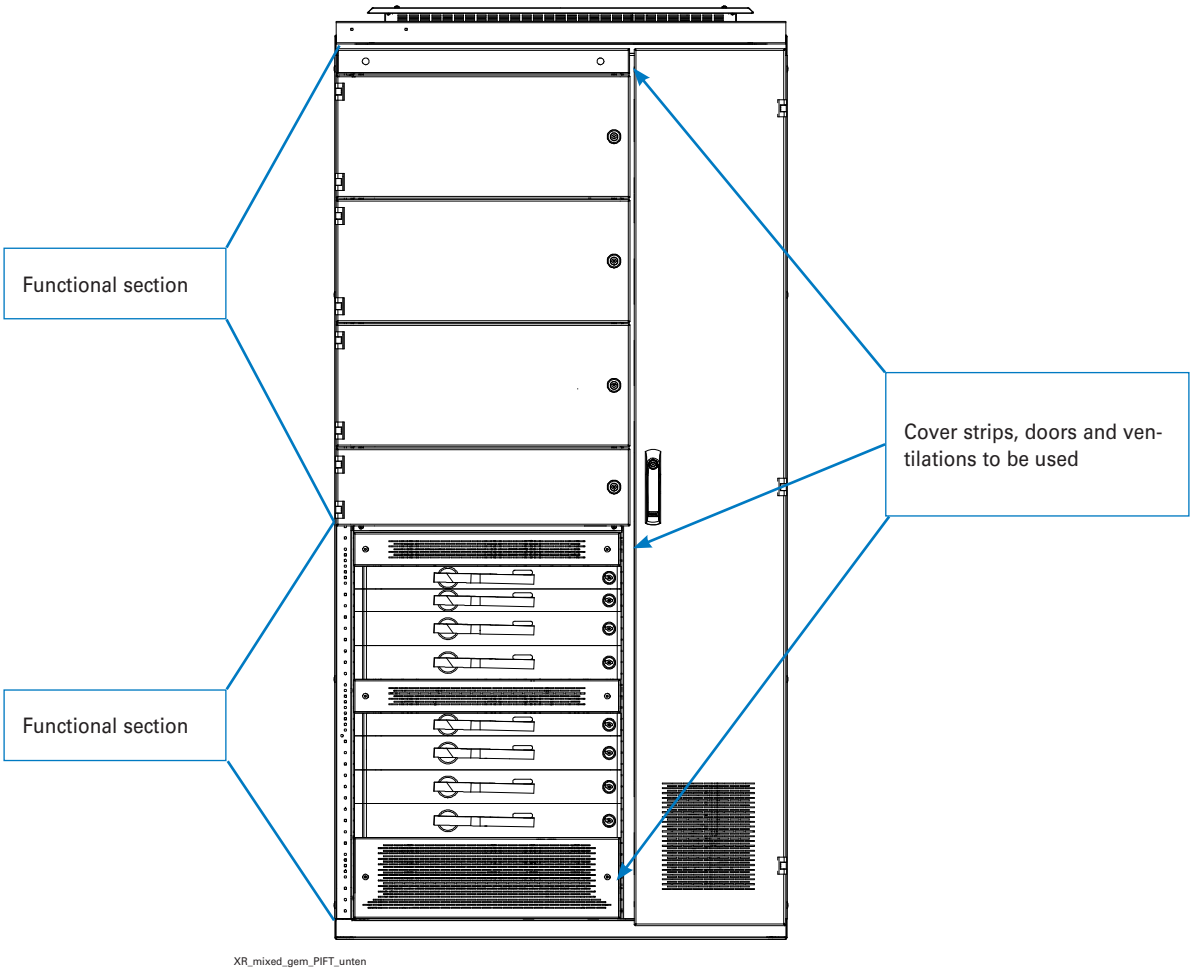
Section widths available:	1000, 1200 mm
Section depths:	600, 800, 1000 mm
Widths of cable connection area:	
for a width of 1000mm with level 0	350 mm
for a width of 1000mm with levels -50/-125	300 mm
for a width of 1200mm with level 0	550 mm
for a width of 1200mm with levels -50/-125	500 mm
Degrees of protection:	IP31, IP42, IP55

Front covers, cover strips, module doors or ventilations

The installation of each top and bottom front cover, ventilation cover strips or module doors of a functional section must be carried out in accordance with the cover strips table in the Ordering Section. Due to the wide variety of possibilities and section variants, their range needs to be presented in the form of a table. The selected front covers/ventilations have a direct impact on the degree of protection, the setup and the modules used.

Important note: The ventilation guidelines provided - as indicated in the cover strips table - must be strictly respected! Not respecting them would have a direct impact on the max. current loads of the modules and dropper bars.

Configuration example



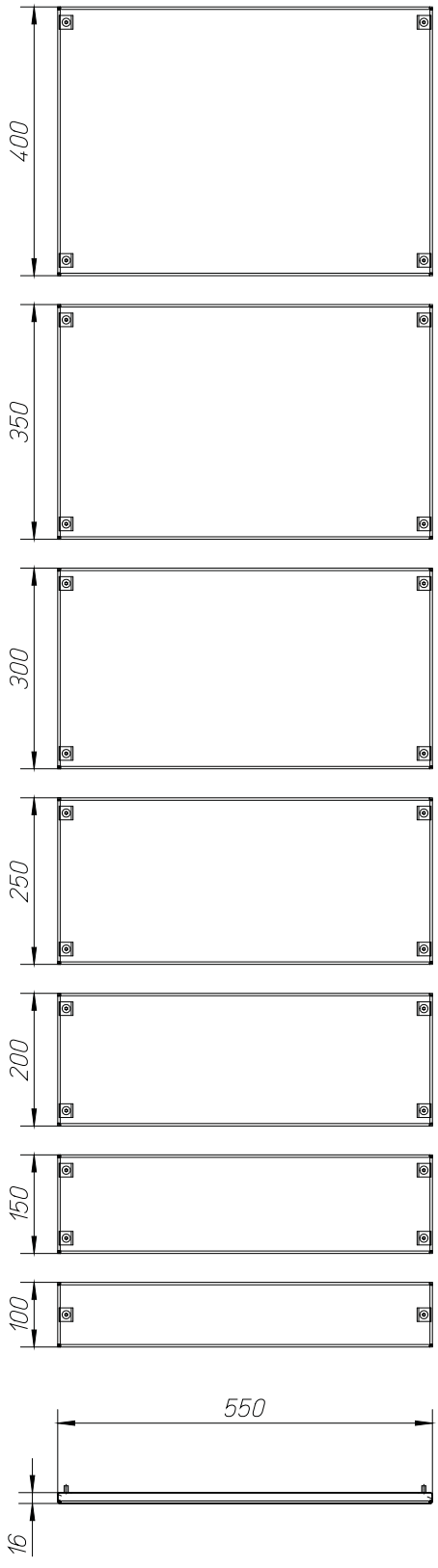
Conventional empty-space covers or module doors can of course be used at your own discretion as long as the degree of protection is taken into account and respected.

Dimensions of the modules

Fixed design - universal modules:

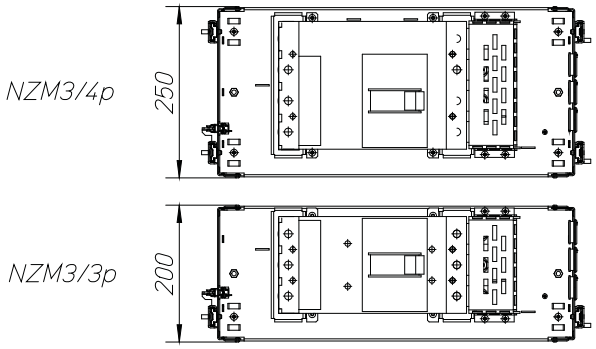
- Mounting plate galvanized
- Material thickness 2 mm

Top view



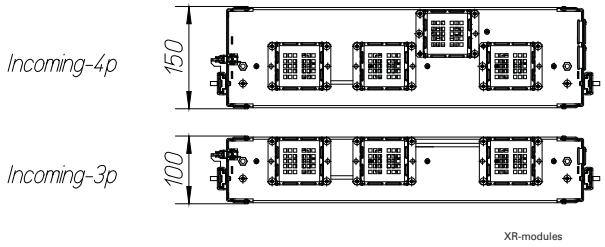
XF-plate

Front views



XR-modules

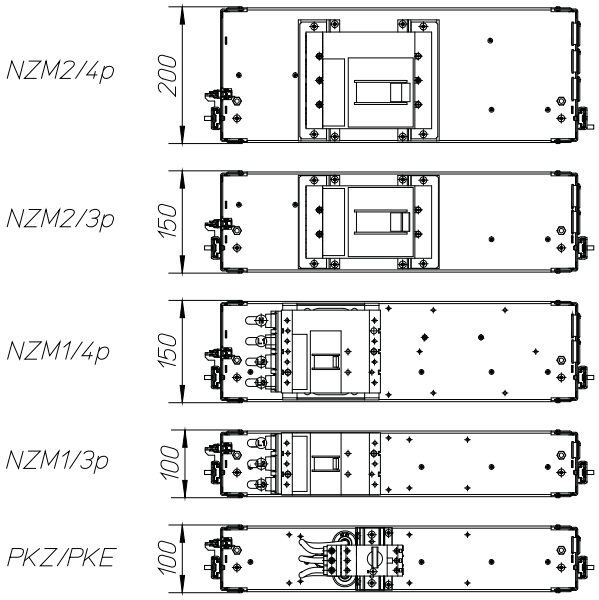
Universal power modules:
- Allow for tapping from the dropper busbar
- I_{max} = 630 A
- Cable connection by cable lug and screw fastening (M10)

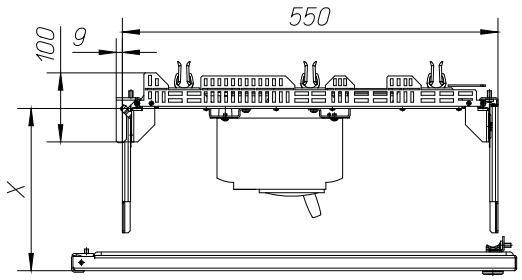


XR-modules

Removable modules (power modules)**:**
- Modules are equipped with glide rails and plastic glides

Top view





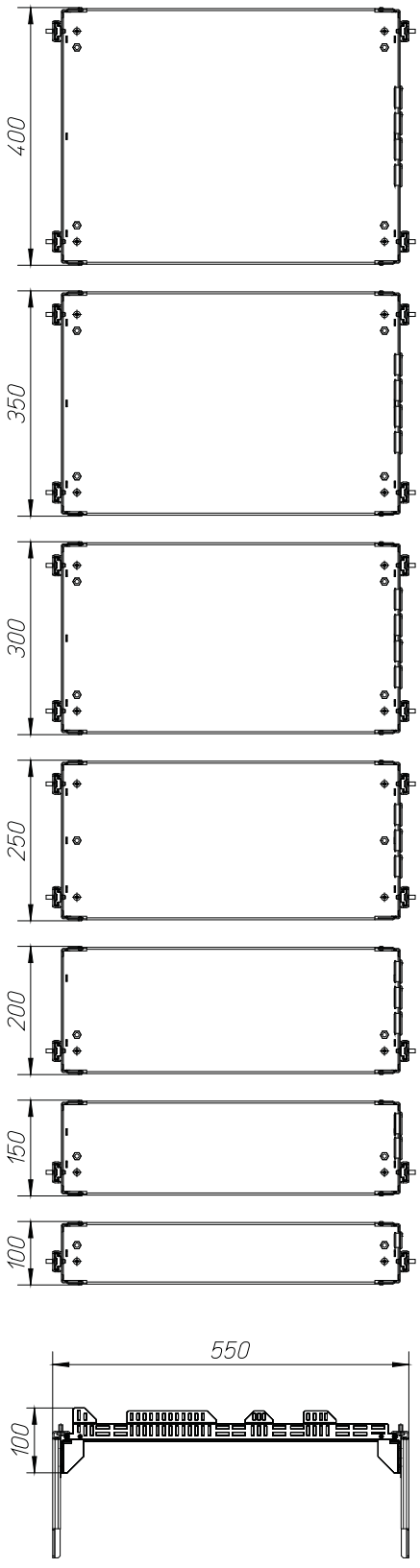
XR-modules

Installation level	Max. installation depth X available (module door inside) in mm
T 0	235
T -50	285
T -125	335

Universal removable modules (expansion modules)**:**

- Modules are equipped with glide rails and plastic glides
- Each of the universal modules can be connected to a power module or another universal module. Use the connection kit XMR-ACK for this purpose.

Top view

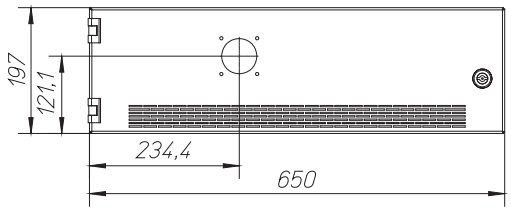


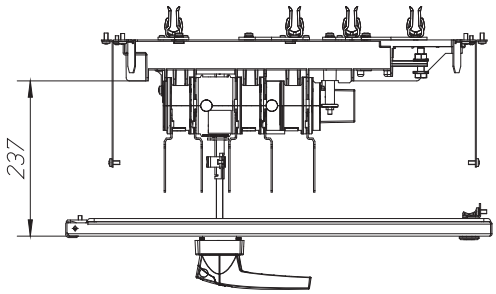
XR-empty

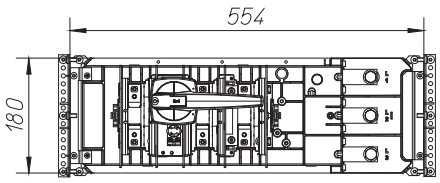
Plug-in modules for QSA fuse load switch:

- Modules may only be installed or replaced in a voltage-free condition
- QSA size 1+2 mountable in area installation kit: T= -0, -50, -100
- QSA size 3 can be installed in combination with area installation kit: T= -50, -100
- Module sizes 1-3 available
- Modules available as 3-, 4- or 3p+N-poles
- Modules are available as single and dual modules (size 1+2)
- Module doors with cutouts for rotary drive (note assignment) for each module height

193424
XSDRMC0200-QSA







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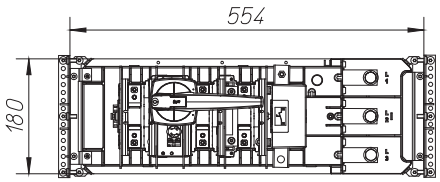

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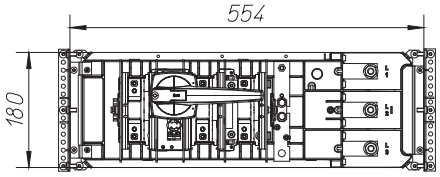

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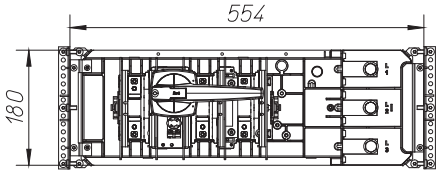

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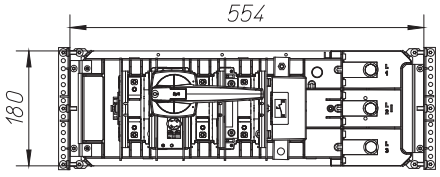

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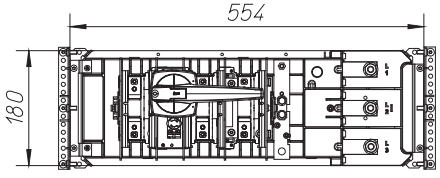

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XMR-QSA-2-3P-N-S-400

QSA-Modules_Dreh_1

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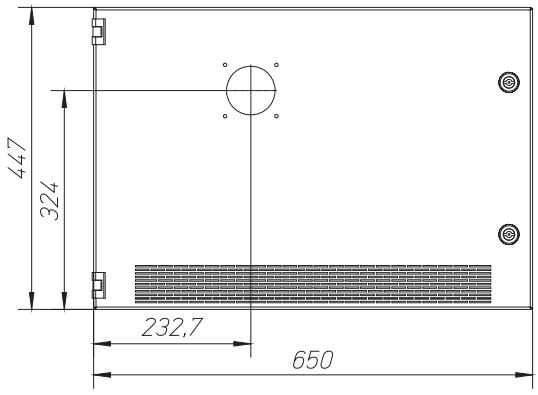
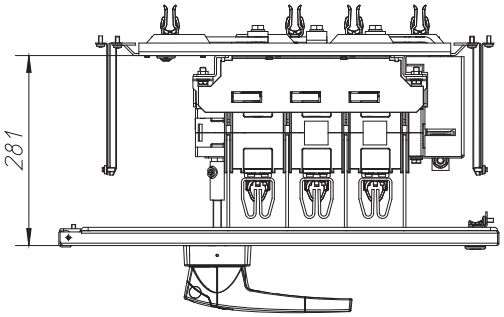
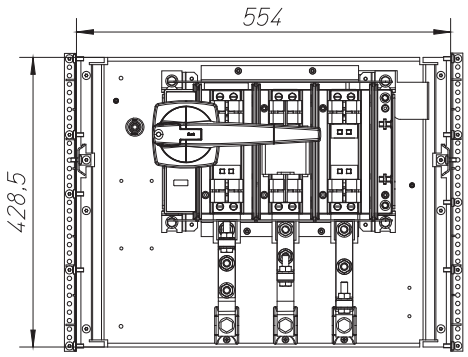
XSDRMC0450-QSA







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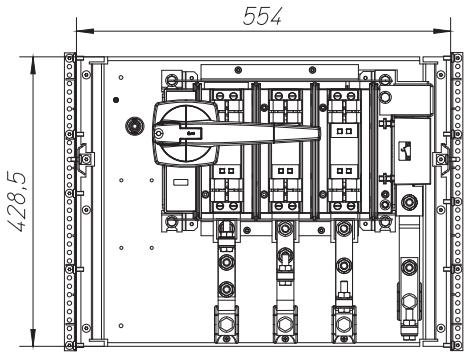

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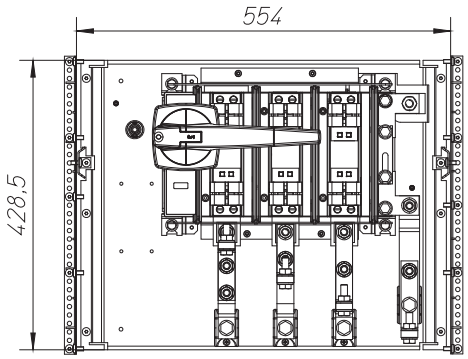
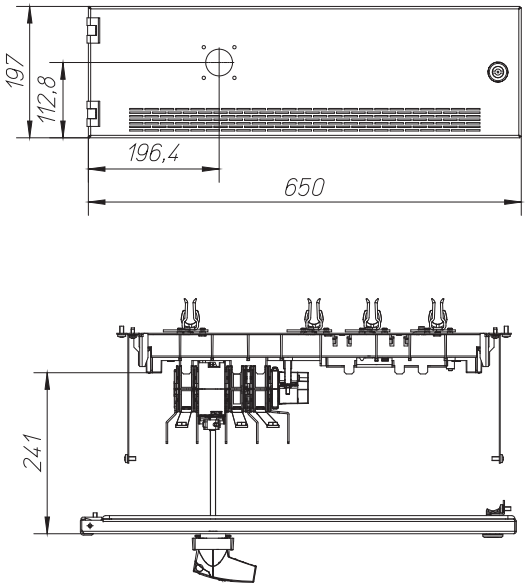


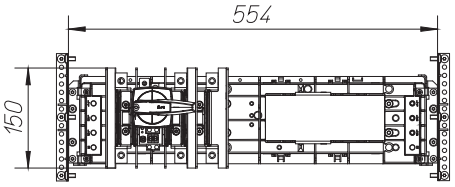
193406
XMR-QSA-3-3P-N-S

QSA-Modules_Dreh_2

British standards:

193426
XSDRMC0200-QSA-BS





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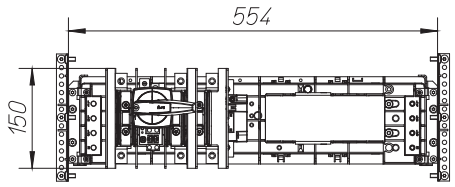

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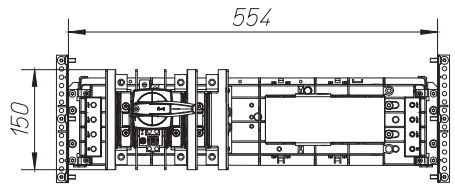

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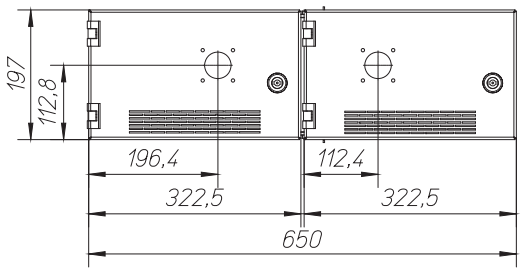

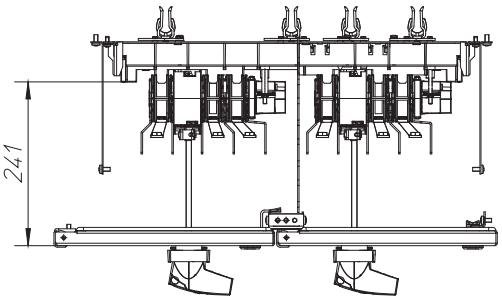

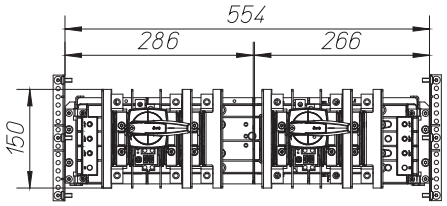

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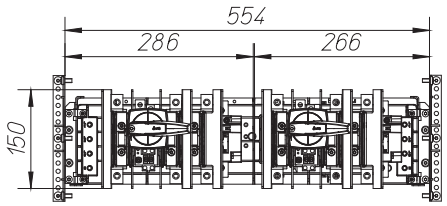

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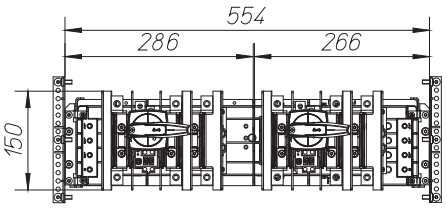

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QSA-Modules_Dreh_3

193424
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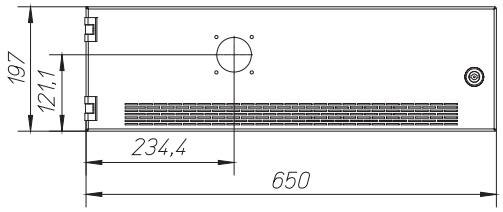

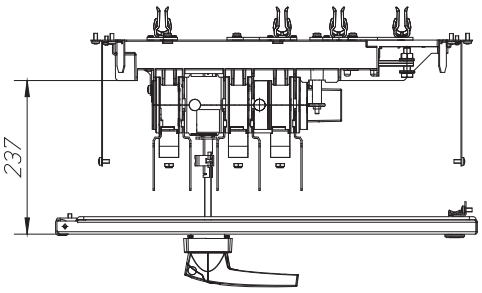

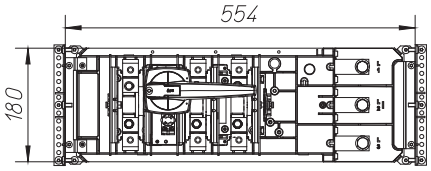

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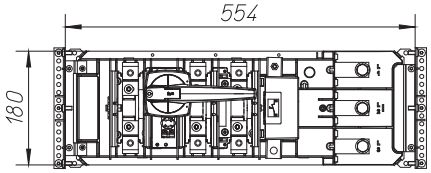

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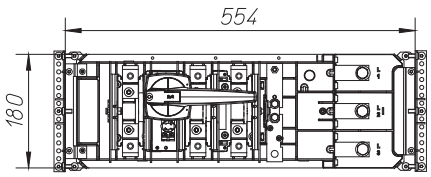

193415
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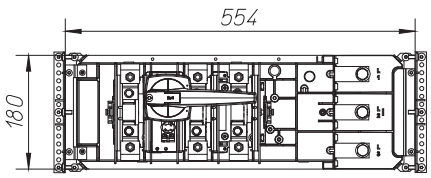
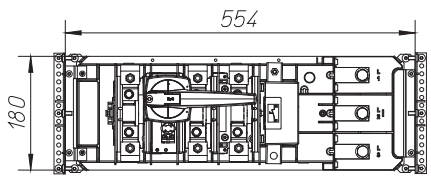


193416
XMR-QSA-2-3-S-400-BS



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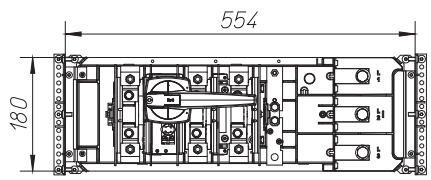
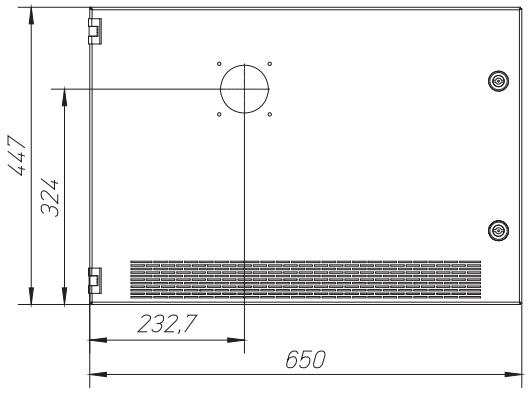
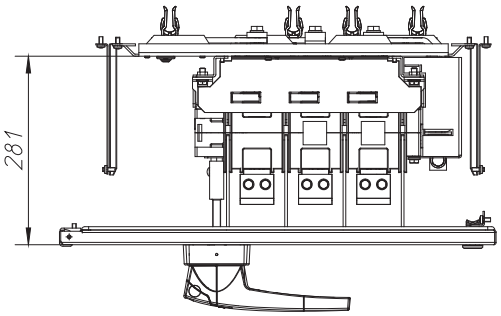


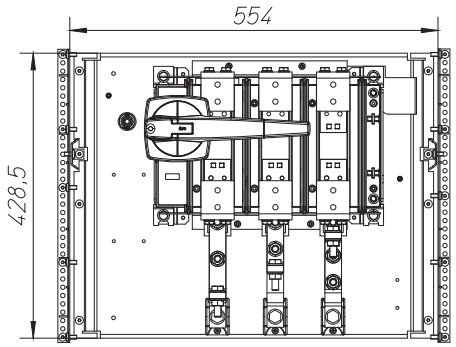
193418
XMR-QSA-2-3P-N-S-400-BS

QSA-Modules_Dreh_4

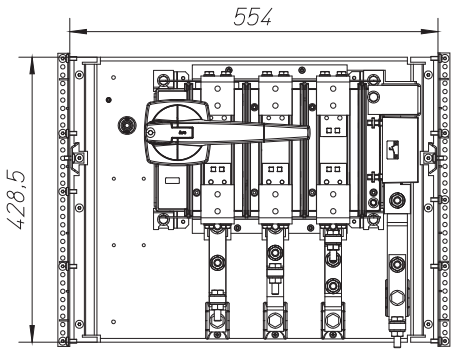
193427
XSDRMC0450-QSA



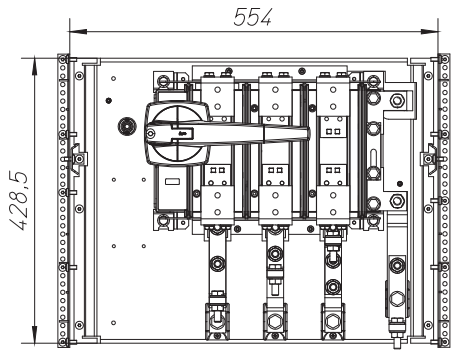




193419
XMR-QSA-3-3-S-BS



193420
XMR-QSA-3-4-S-BS



193421
XMR-QSA-3-3P-N-S-BS

QSA-Modules_Dreh_5

Dropper busbar:

- System of individual bars
- Center-to-center distance between phases 185 mm
- Rated nominal current up to 1800 A / 35 °C
- Rated short-time withstand current I_{cw}/1s up to max. 80 kA
- Rated short-time withstand current I_{cw}/3s up to max. 50 kA
- Dropper busbar, covered for electr. finger safety IP2X

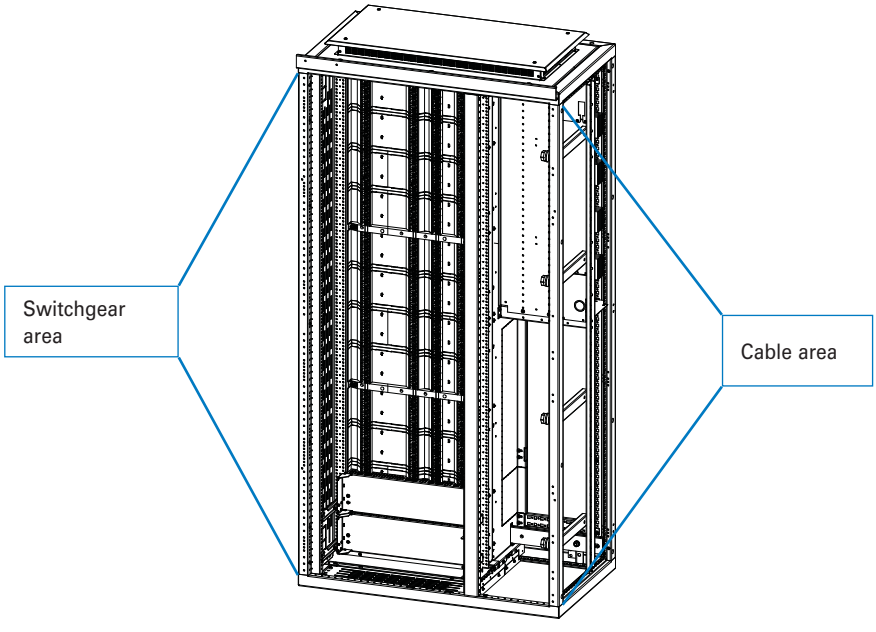
Busbar	Busbar cross-section	Max. center-to-center distance of the busbar supports in mm for I_{cw} (1s)		
I_e		35 kA	50 kA	80 kA
A	mm^2	mm	mm	mm
900	1 x 40 x 10	600	450	-
1350	1 x 60 x 10	600	600	-
1800	1 x 80 x 10	600	600	450

Cable connection area:

- Cable connection has to be carried out in the right-side part of the distribution section. A mirror-inverted setup of the section is not possible. Outgoing cables can either enter from the bottom or from the top.
- Connections for PIFT can optionally be covered with cable partitions (available as accessories in the PIFT catalogue) to make them electrically finger-safe.

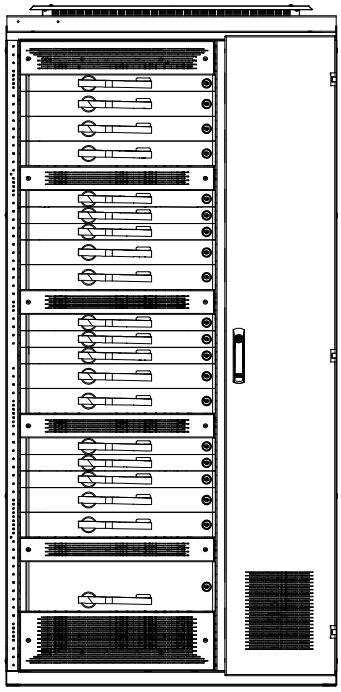
- Removable and fixed design modules can be connected and wired in two ways:
  1) As cable interconnect area and open/common terminal area
     For this purpose, the terminals are attached on a continuous DIN rail. Or else - in case of larger terminal cross-sections - they can directly be screw-fixed on a mounting plate that serves as a partition to the main busbar at the same time. Another frequently used possibility is the direct connection in the module. In this case, the outgoing cables can directly be led into the module and be connected to the terminals of the circuit breaker or contactor.
  2) The cable connection area is sub-divided into terminal boxes
     For this purpose, additional horizontal partitions (XPRCCH0350x) need to be installed in the cable connection area. They divide the entire cable connection area into individual terminal boxes. These boxes are usually installed at the same height as the switchgear module (but they can also be installed at a different height level). Horizontal covers (XPRCCVxxxx035) in module height (minimum 50 mm to 975 mm) will cover the terminal module at the front and make it electrically finger-safe. If this solution with separate terminal boxes is used, it is mandatory to install an additional cable guidance section. Outgoing cables will be led through this section to the terminal modules and can be connected to the terminals positioned there.

- Additional separation panel in case of a separate cable guidance section, equipped with punch holes for cable insertion. Suitable for closing strips (XPRMC-MC).
- Cable strain relief rails ensure safe guidance of the outgoing cables
- The connection area is accessible through a separate door to the cable connection area and a partition can be installed to the busbar area and the switchgear area.
- Vertical PE, N or PEN rails are mounted in the cable connection area and can be equipped with connections for each outgoing cable
- If the cable connection area is subdivided by additional partitions for terminals, the dropper busbars for PE/PEN and N have to be installed in the additional cable guidance section.



XR_SMN2

Pure setup – PIFT only



XR_mixed_nur_PIFT

Important planning rules for PIFT

- Fuse strips have to be arranged in a balanced way over the height of the cabinet or the respective functional section
- Large-size units are to be positioned at the bottom, fuse strips with lower rated currents towards the top of the cabinet! For thermal reasons!!
- Sizes NH00-2 should be arranged in blocks of max. 300 mm each, then a ventilated cover strip of 75 mm should be installed!
- For size NH3 you need 1 ventilation section each above and below the fuse strip!
- No cross-partition in the PIFT functional area!
- Arrange spare spaces in a balanced way over the entire cabinet height!
- With permanent load, pay attention to rated load factors!
- Plan ventilation through the top wherever possible (IP31/42)!
- Arrangement of busbar supports
  - With size 00 above or below the fuse strip
  - With size 1 between the fuse strips
  - With size 2 and 3 between or at the center behind the fuse strip
- Busbar support center-to-center distance 150 mm (divisible by any additional SST)! Important for problem-free mounting of the busbar covers!

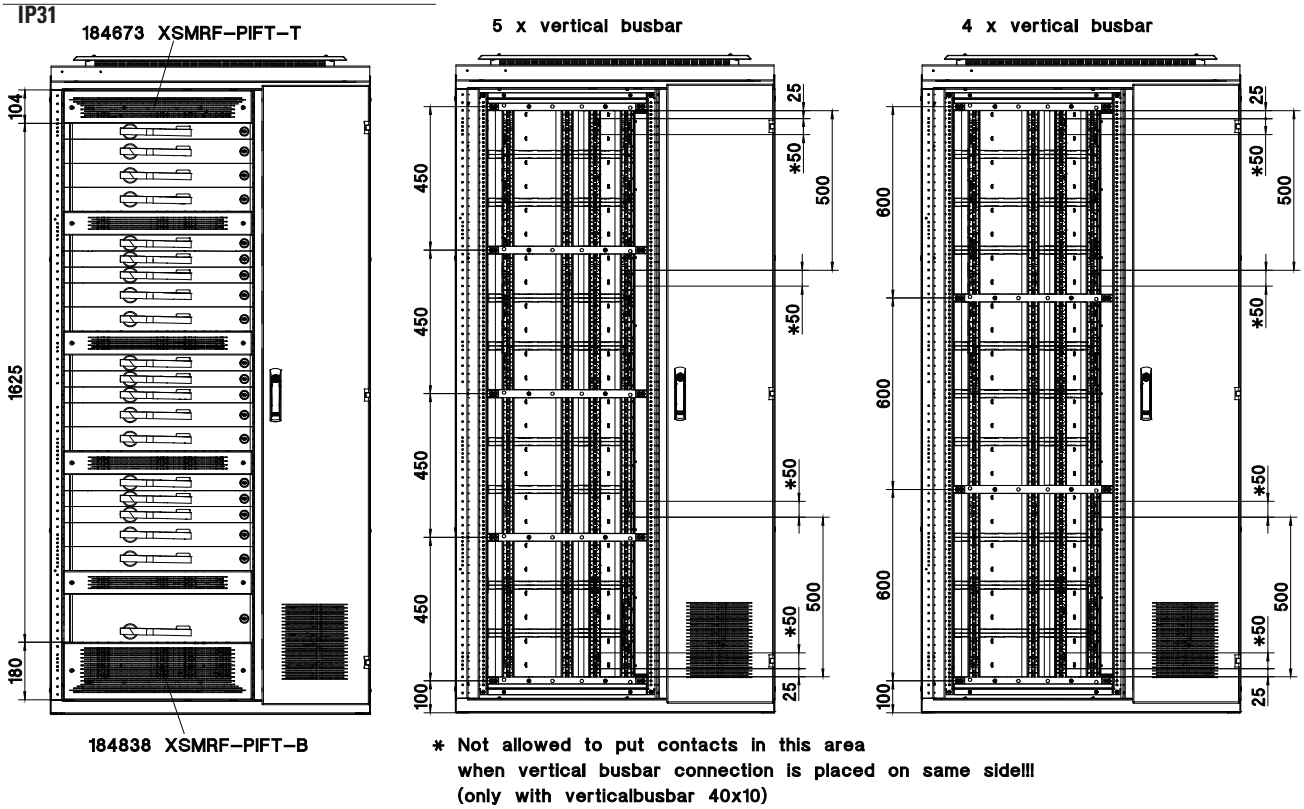
Switchgear area:

- Operation of the switchgear from outside or from behind the door (depending on the cover frame)
- Connection of the switching strips on the incoming side on a vertically arranged dropper bar system, in removable design with cover for electrical finger-safety
- Dropper bars can be contacted from the front over the entire height
- Pay attention to the ventilation concept according to the table in the Ordering Section!!
- Total switchgear/fitting area available: 1625 mm
- Degree of protection IP31, IP42, IP55
  with IP42 and IP55 a door must be installed in front of the PIFT

Dimensions

Dimensions PIFT setup with fitting frame D 0

IP31

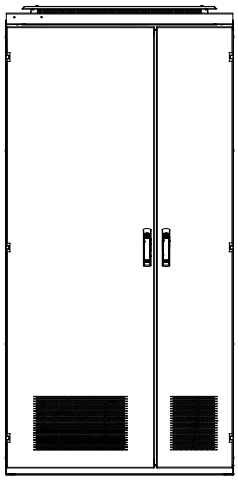


* Not allowed to put contacts in this area when vertical busbar connection is placed on same side!!! (only with verticalbusbar 40x10)

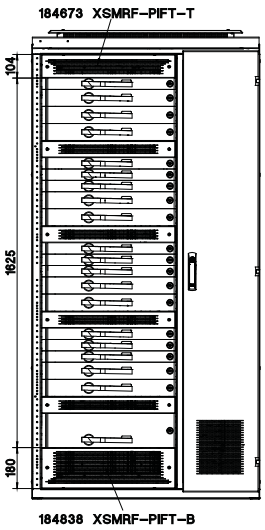
Dimensions PIFT setup with fitting frame D -50 to D -125

IP31

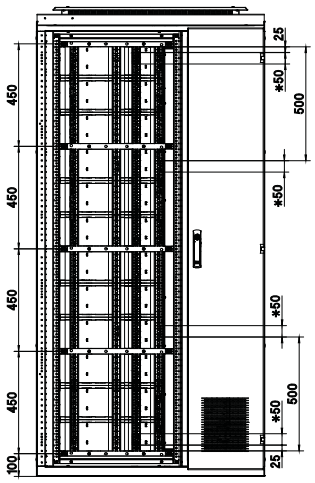
with section high door
(behind door same setup as without door)



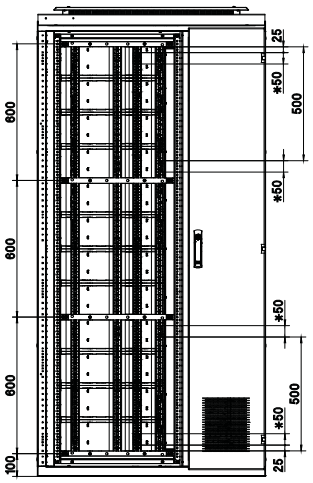
without section high door



5 x vertical busbar

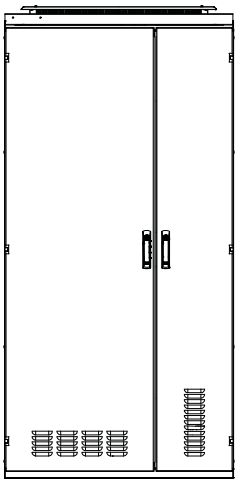


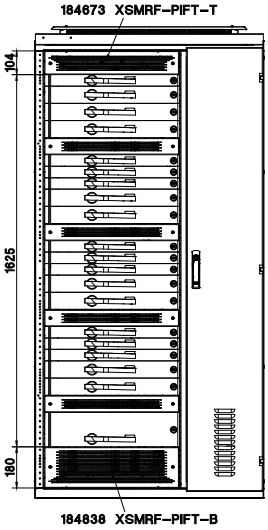
4 x vertical busbar



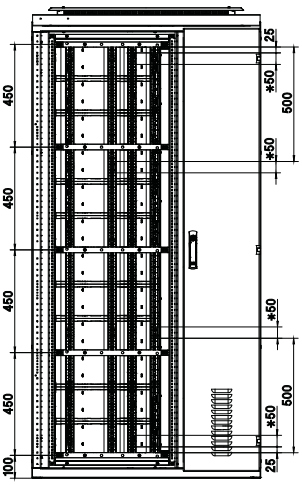
* Not allowed to put contacts in this area
when vertical busbar connection is placed on same side!!
(only with verticalbusbar 40x10)

IP42

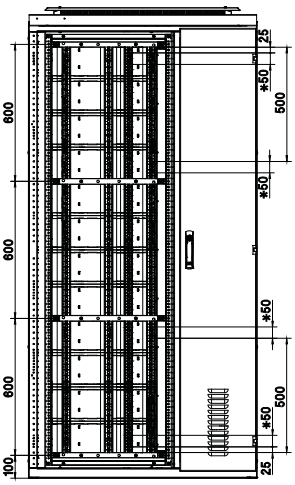




5 x vertical busbar

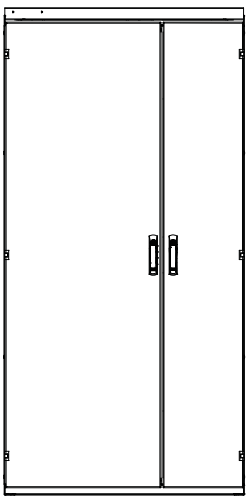


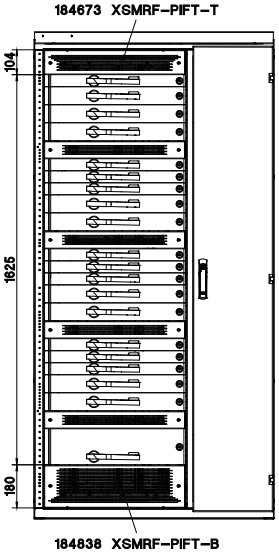
4 x vertical busbar



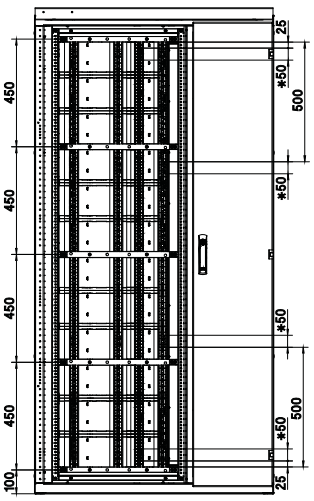
* Not allowed to put contacts in this area
when vertical busbar connection is placed on same side!!
(only with verticalbusbar 40x10)

IP55

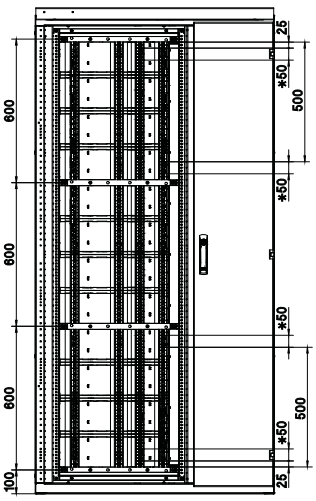




5 x vertical busbar

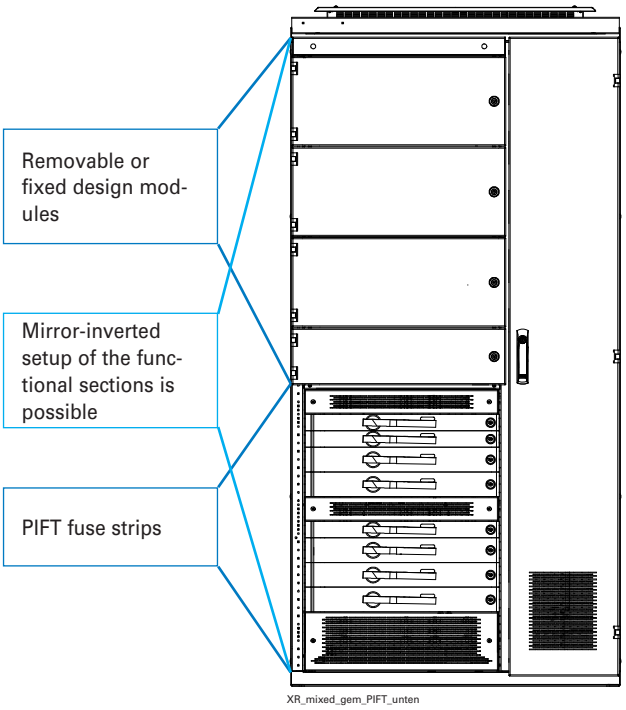


4 x vertical busbar



* Not allowed to put contacts in this area
when vertical busbar connection is placed on same side!!
(only with verticalbusbar 40x10)

Split setup – PIFT and fixed /removable design modules



Switchgear area:

- Arrangement/distribution of the functional areas can be done at your discretion. So you can start with the PIFT functional unit either at the top or at the bottom of the cabinet.
- Operation of the PIFT switchgear from outside or from behind the door (depending on or in connection with the cover frames used and the setup of the fitting frame).
- Removable/fixed design modules can be mounted behind a separate module door or behind a door across several modules.
- Rotary door coupling handles can optionally be integrated into the modules/doors.
- Connection of all outgoing modules on the incoming side, on a vertically arranged dropper bar system, designed for removable modules with a cover for electrical finger-safety.
- The dropper bars can be contacted from the front over the entire height.
- Total switchgear/fitting area varies depending on the setup: min: 1687.5 mm to max: 1900 mm
- Pay attention to the ventilation concept according to the table in the Ordering Section!!

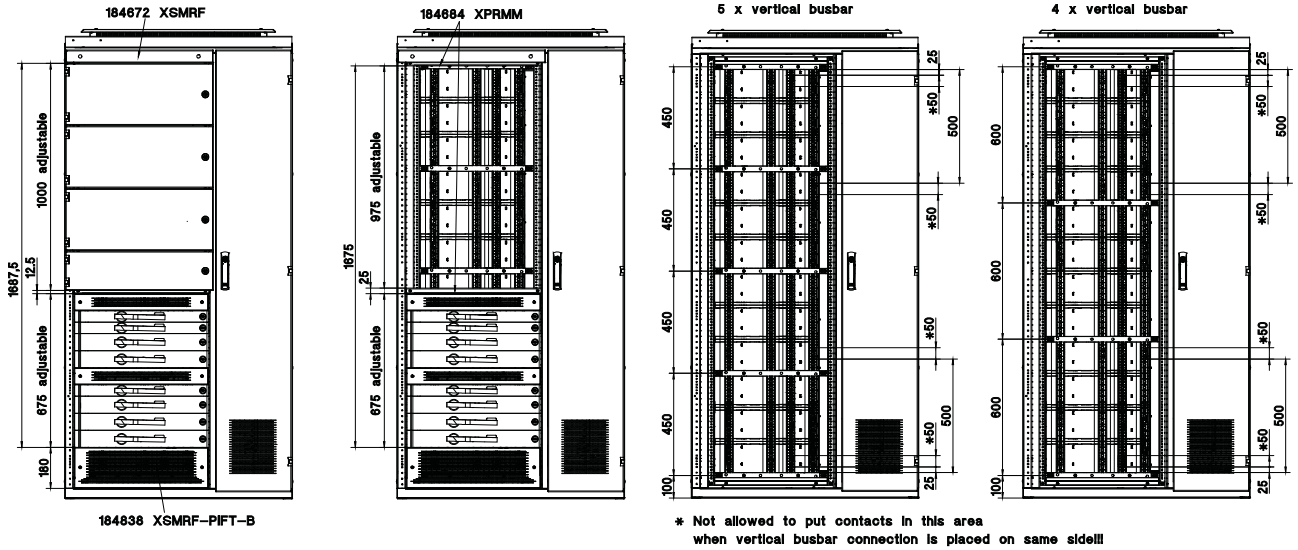
Important planning rules for PIFT

- Select the top and bottom cover strip for each section from the table in the Ordering Section
- Large-size units should be positioned at the bottom, fuse strips with lower rated currents towards the top of the cabinet! For thermal reasons!
- Sizes NH00-2 should be arranged in blocks of max. 300 mm each, then a ventilated cover strip of 75 mm should be installed!
- For size NH3 you need 1 ventilation cover strip each above and below the fuse strip!
- No cross-partition in the PIFT functional area!
- Arrange spare spaces in a balanced way over the entire cabinet height!
- With permanent load, pay attention to rated load factors!
- Plan ventilation through the top wherever possible (IP31/42)!
- Arrangement of busbar supports
  - With size 00 above or below the fuse strip
  - With size 1 between the fuse strips
  - With size 2 and 3 between or at the center behind the fuse strip
- The center-to-center distance between busbar supports must be divisible by 150 mm (where necessary add an-other busbar support! Important for trouble-free mounting of the busbar covers!

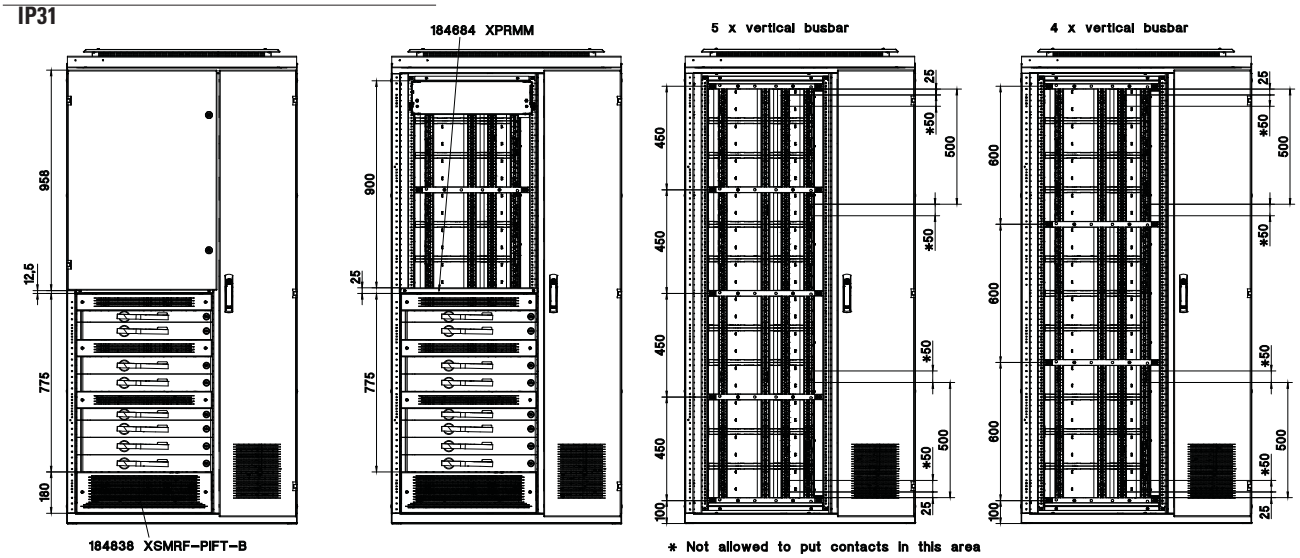
Dimensions

Dimensions mixed setup with fitting frame D 0

IP31



IP31



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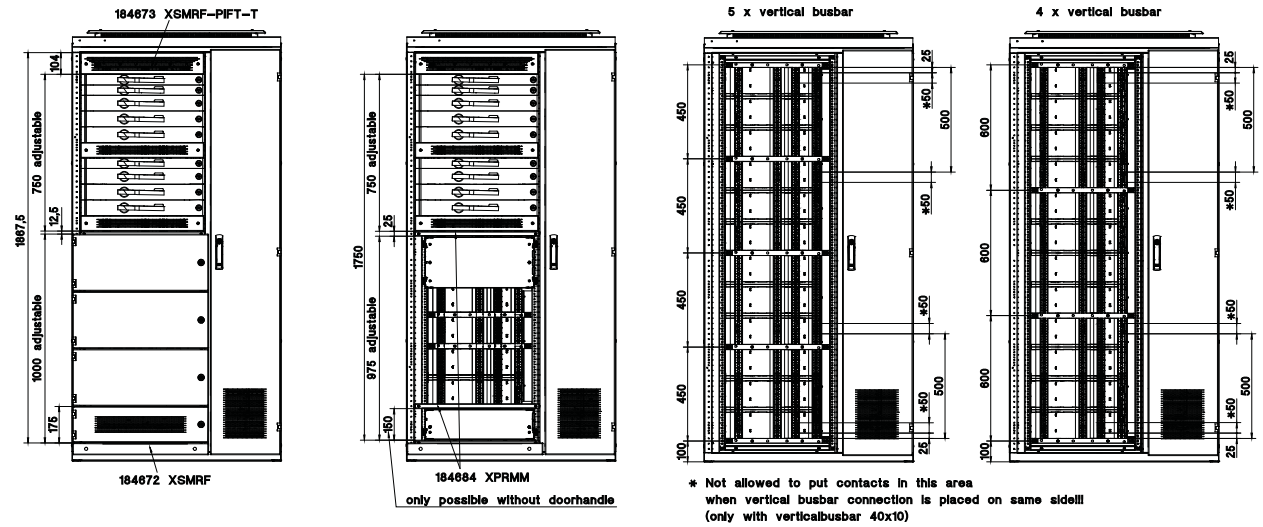
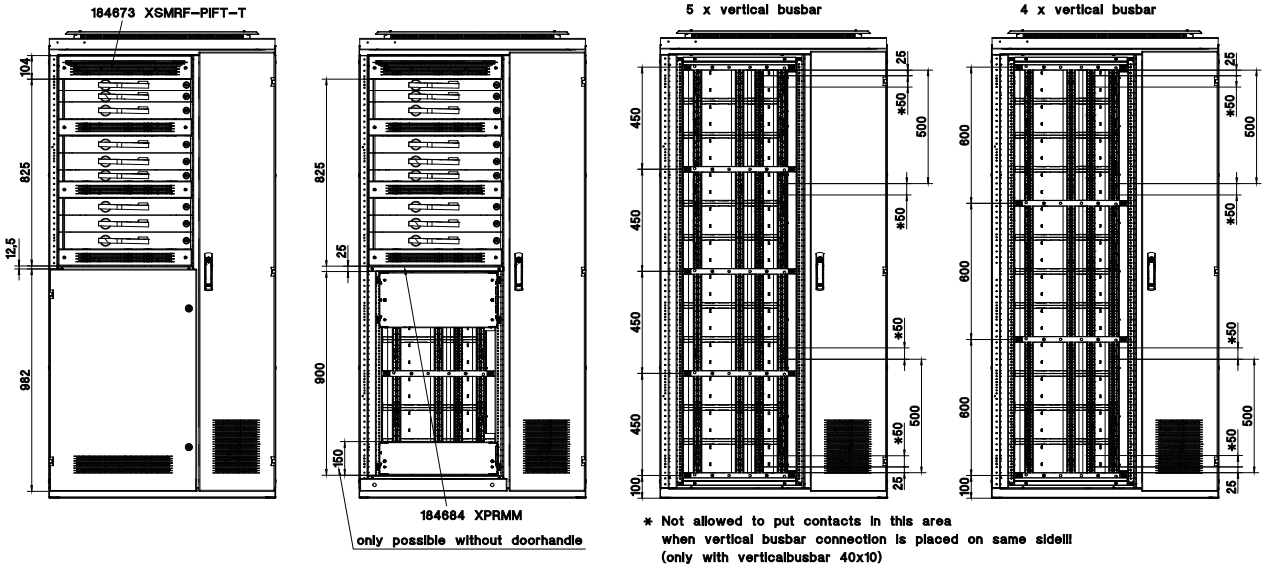


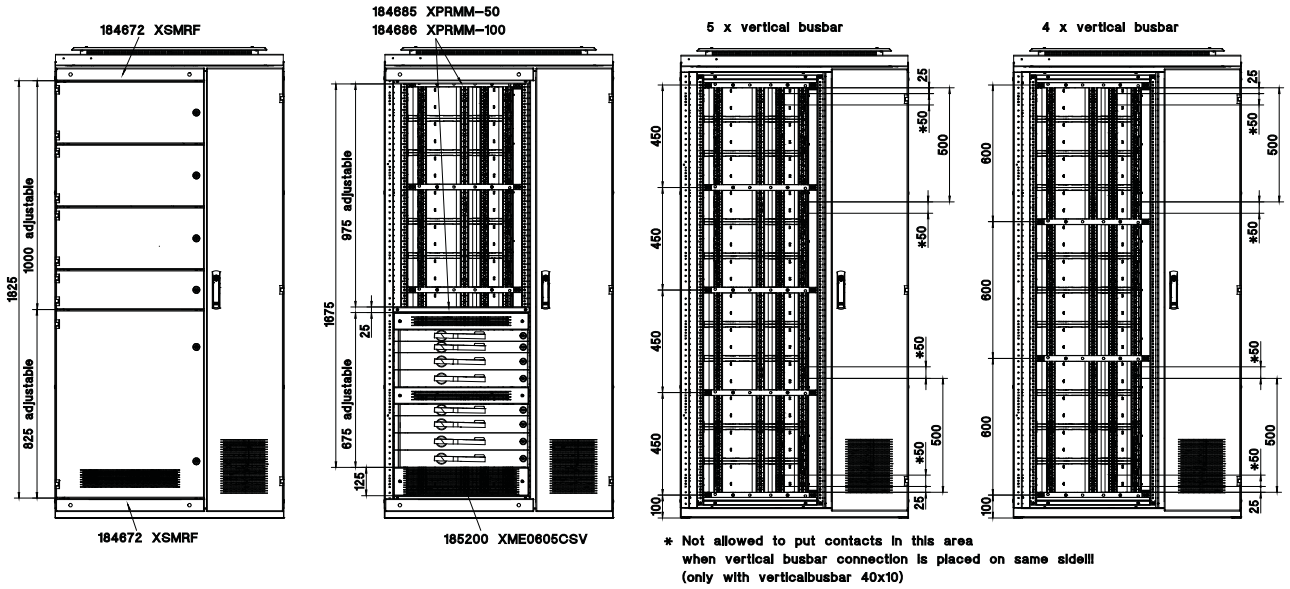
Dimensions mixed setup with fitting frame D 0 (continued)

IP31



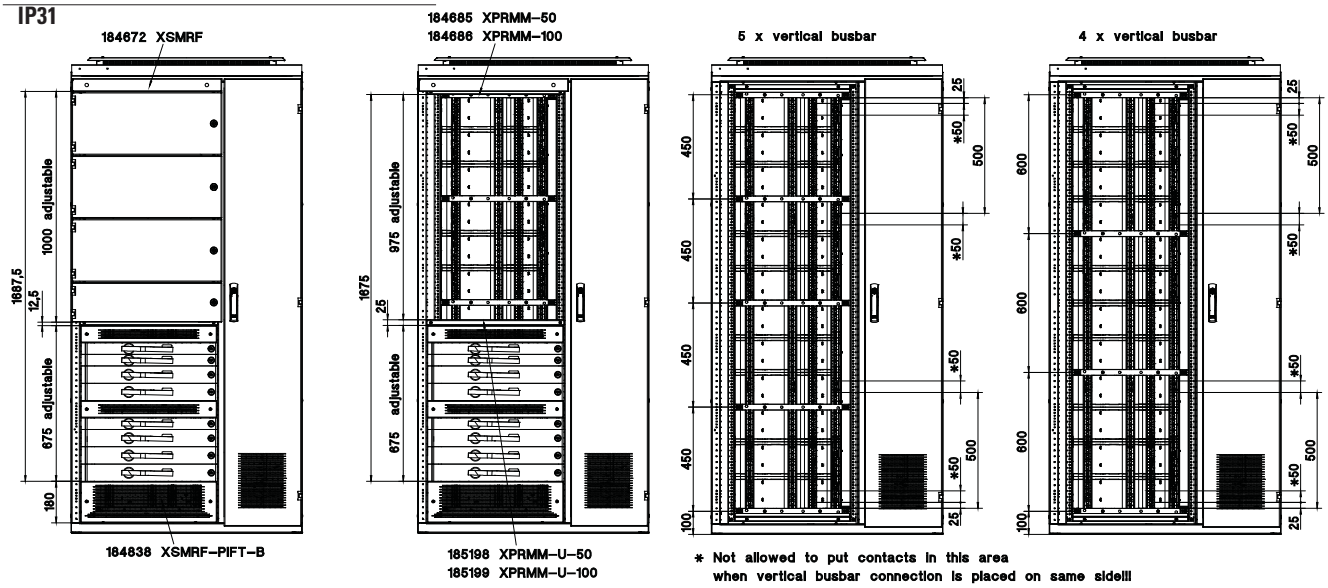
Dimensions mixed setup with fitting frame D -50 to D -125

IP31



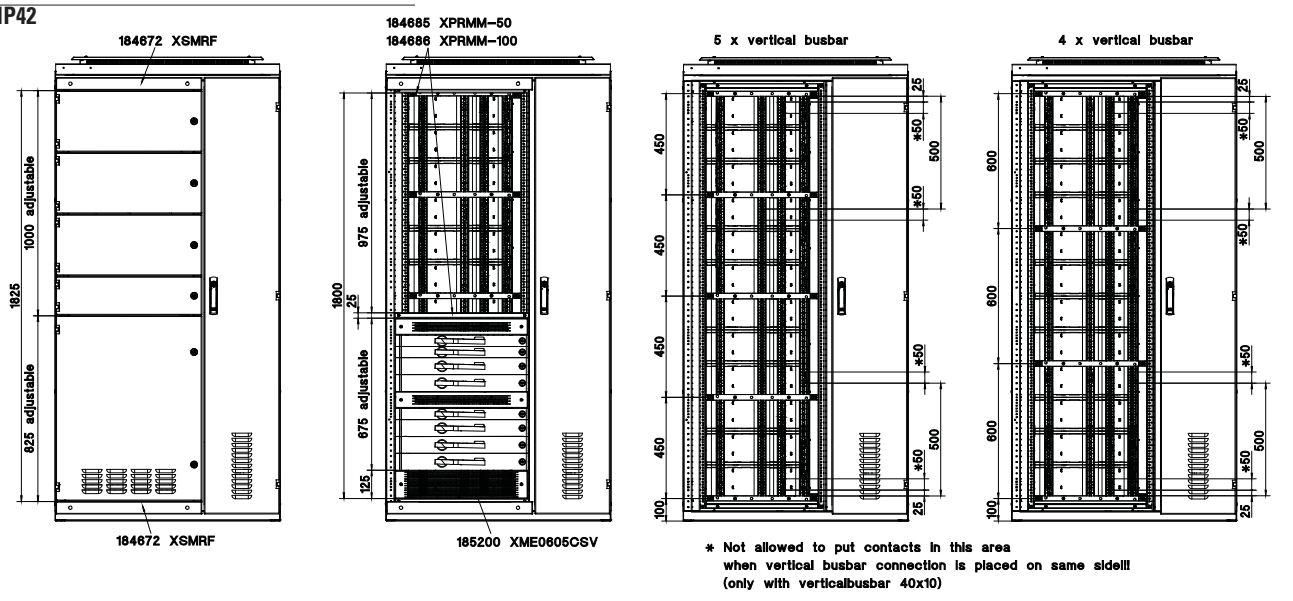
* Not allowed to put contacts in this area when vertical busbar connection is placed on same sideIII (only with verticalbusbar 40x10)

IP31



* Not allowed to put contacts in this area when vertical busbar connection is placed on same sideIII (only with verticalbusbar 40x10)

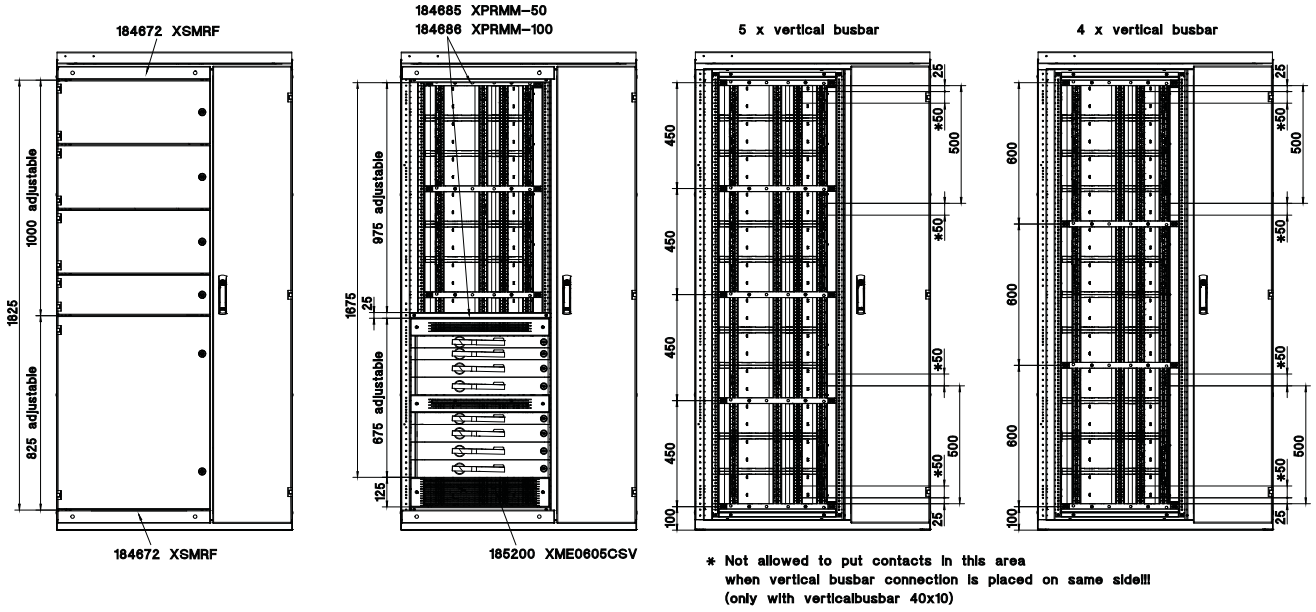
IP42



* Not allowed to put contacts in this area when vertical busbar connection is placed on same sideIII (only with verticalbusbar 40x10)

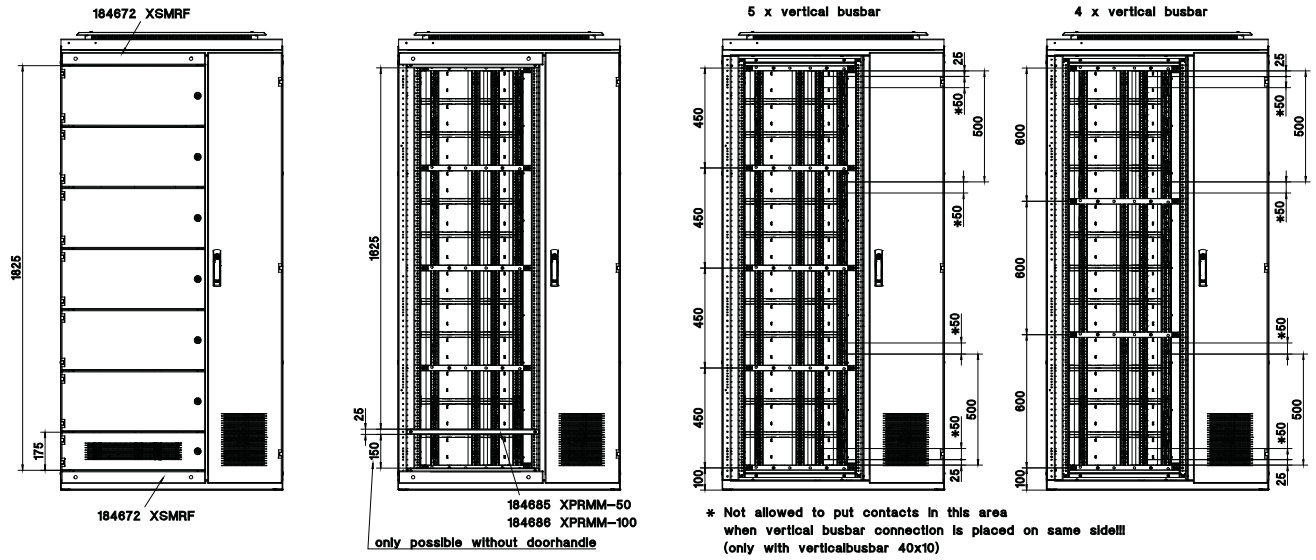
Dimensions mixed setup with fitting frame D -50 to D -125 (continued)

IP55



* Not allowed to put contacts in this area when vertical busbar connection is placed on same side!! (only with verticalbusbar 40x10)

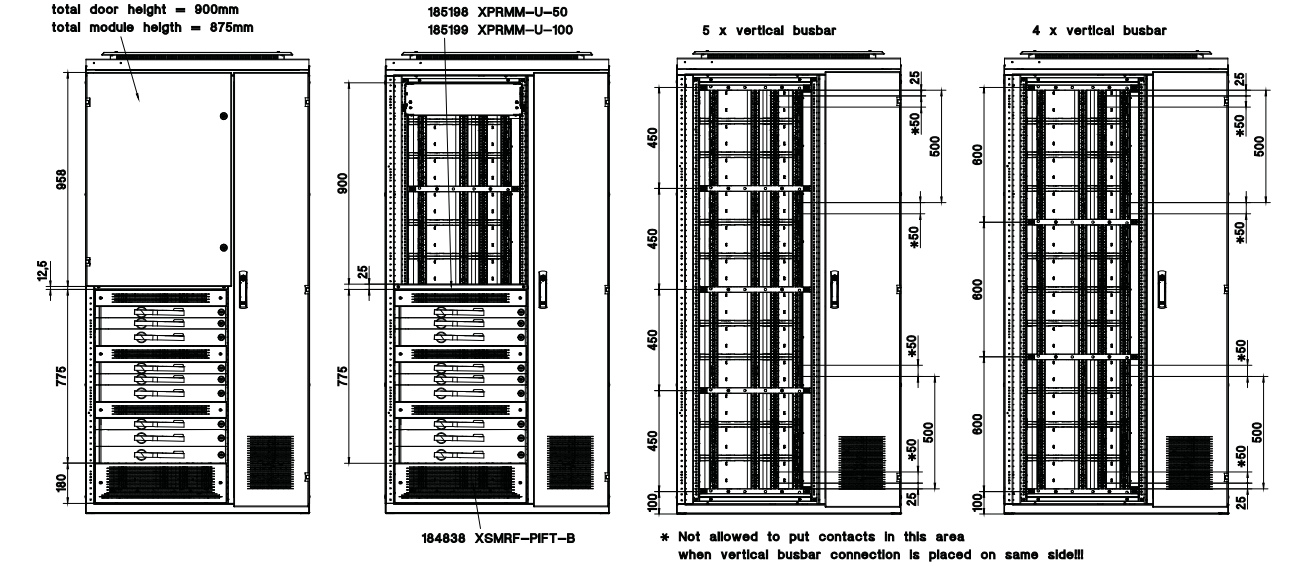
IP31



* Not allowed to put contacts in this area when vertical busbar connection is placed on same side!! (only with verticalbusbar 40x10)

IP31

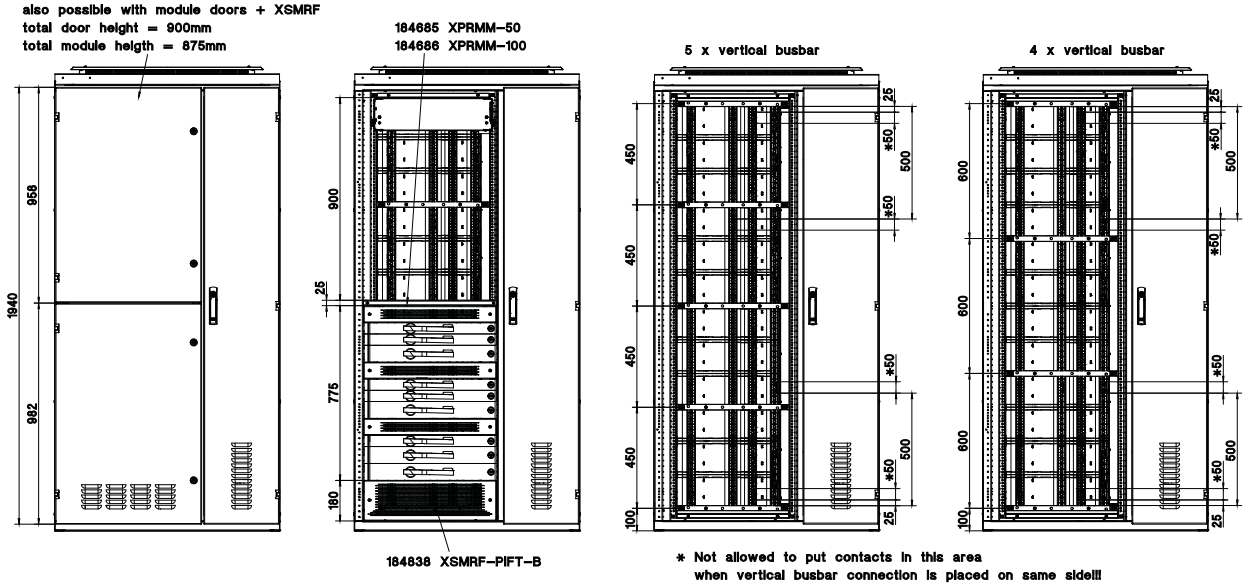
also possible with module doors + XSMRF
total door height = 900mm
total module heigth = 875mm



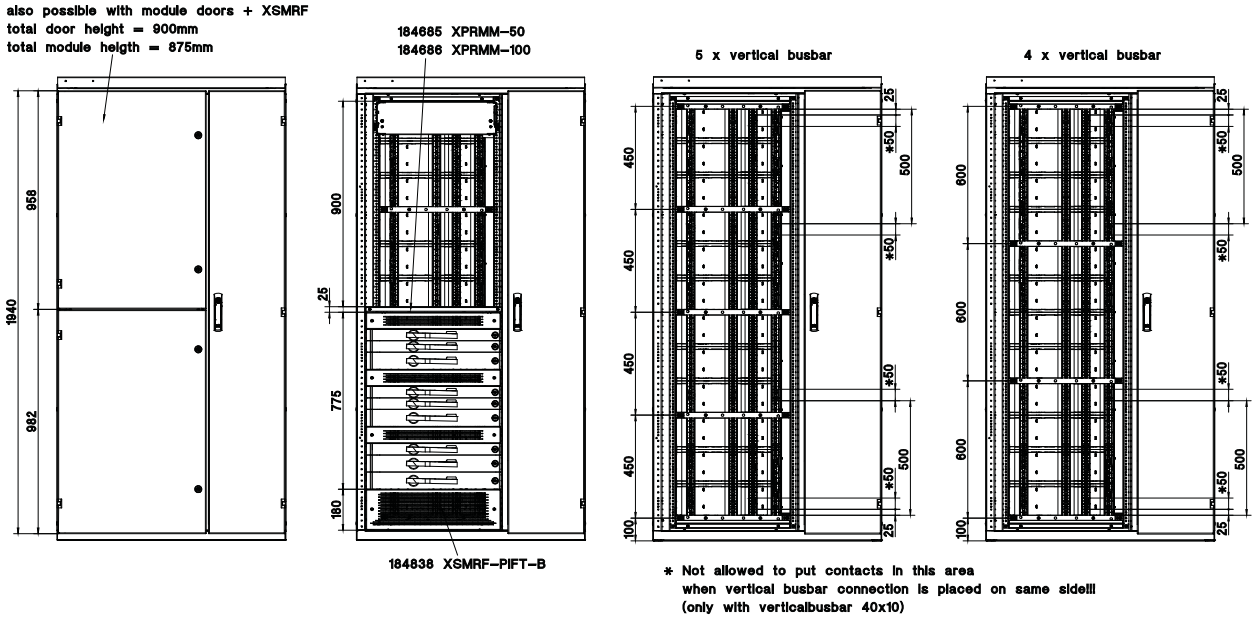
* Not allowed to put contacts in this area when vertical busbar connection is placed on same side!! (only with verticalbusbar 40x10)

Dimensions mixed setup with fitting frame D -50 to D -125 (continued)

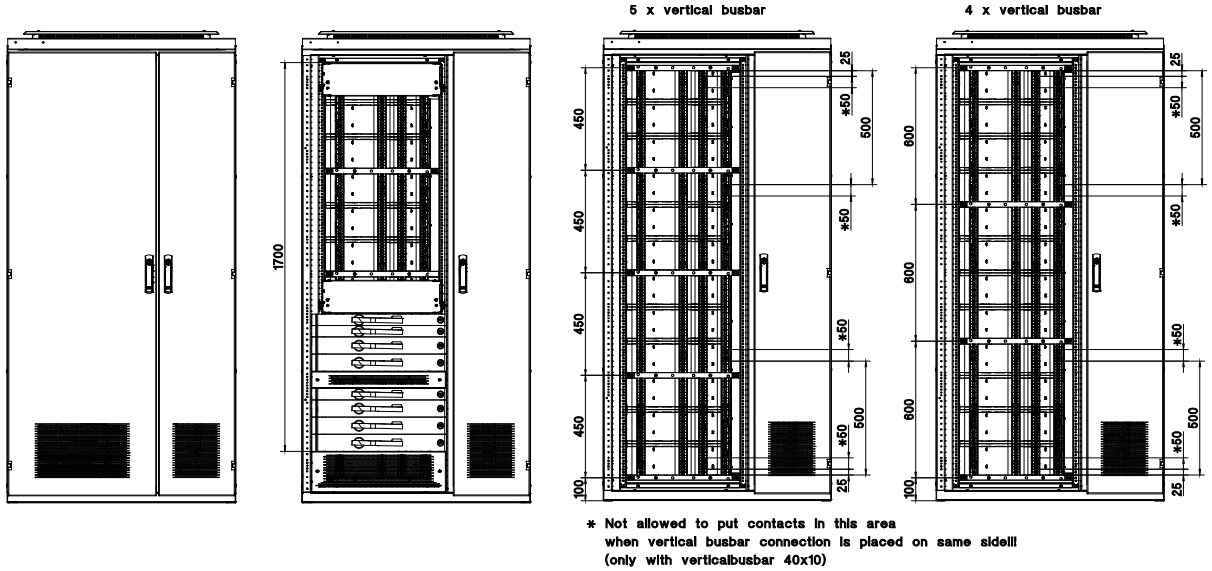
IP42



IP55

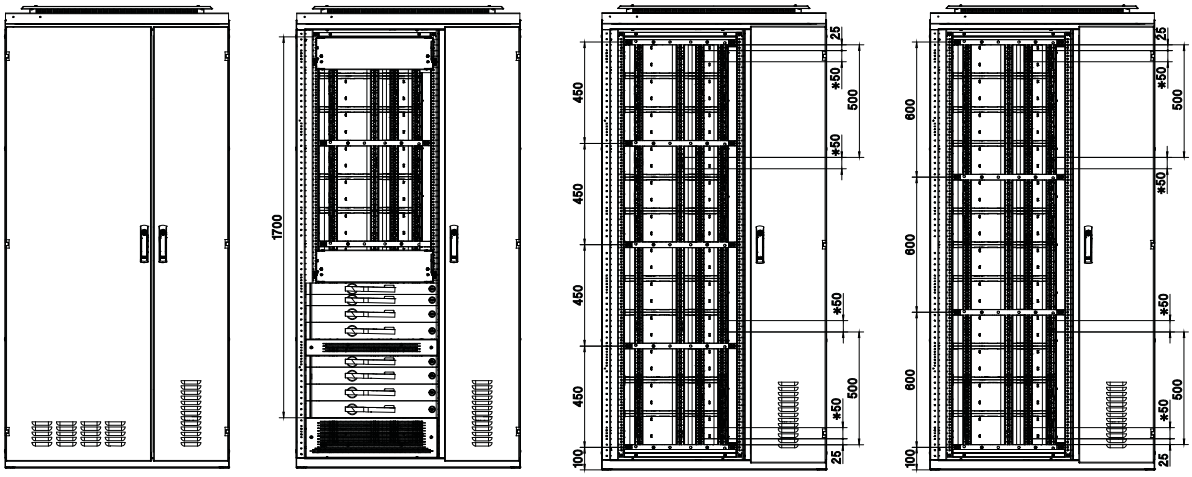


IP31



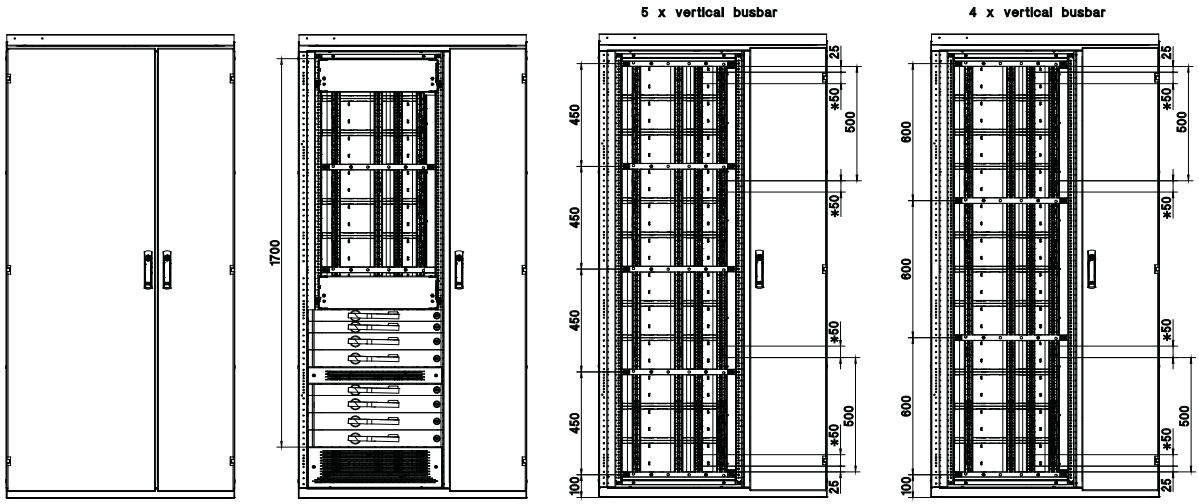
Dimensions mixed setup with fitting frame D -50 to D -125 (continued)

IP42



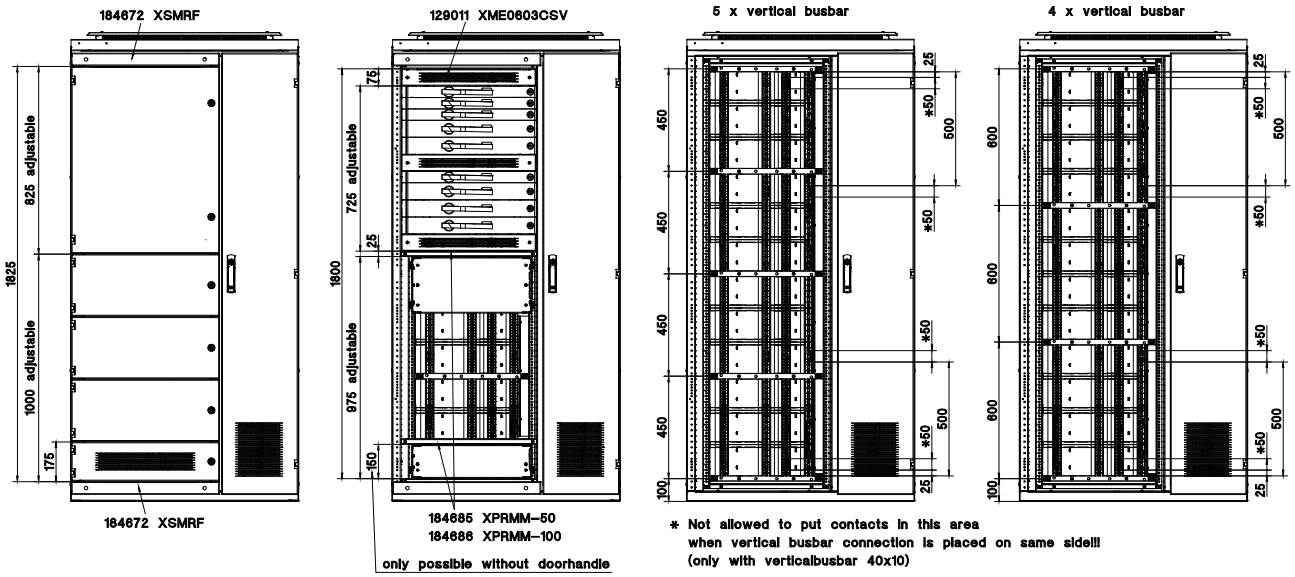
* Not allowed to put contacts in this area when vertical busbar connection is placed on same side!! (only with verticalbusbar 40x10)

IP55



* Not allowed to put contacts in this area when vertical busbar connection is placed on same side!! (only with verticalbusbar 40x10)

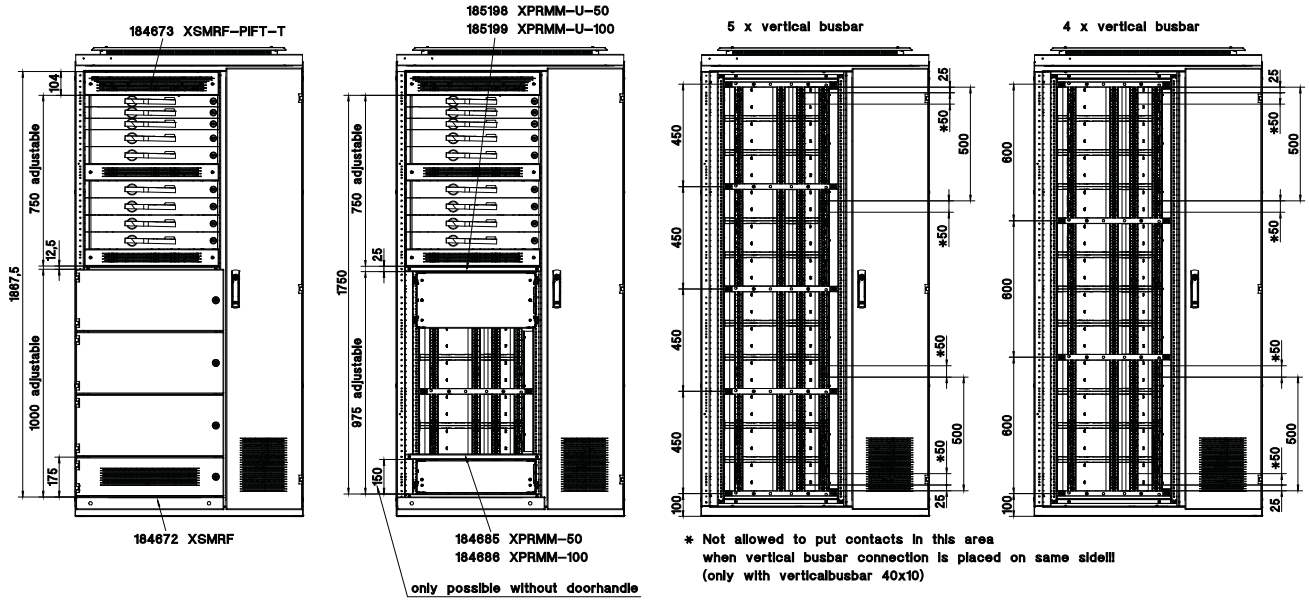
IP31



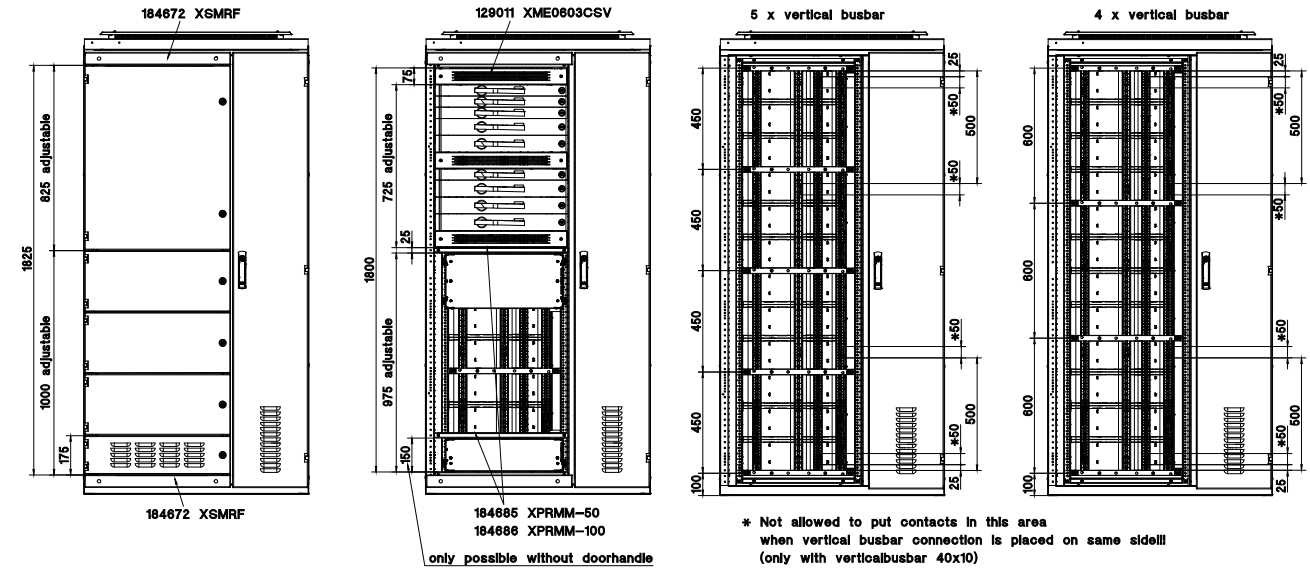
* Not allowed to put contacts in this area when vertical busbar connection is placed on same side!! (only with verticalbusbar 40x10)

Dimensions mixed setup with fitting frame D -50 to D -125 (continued)

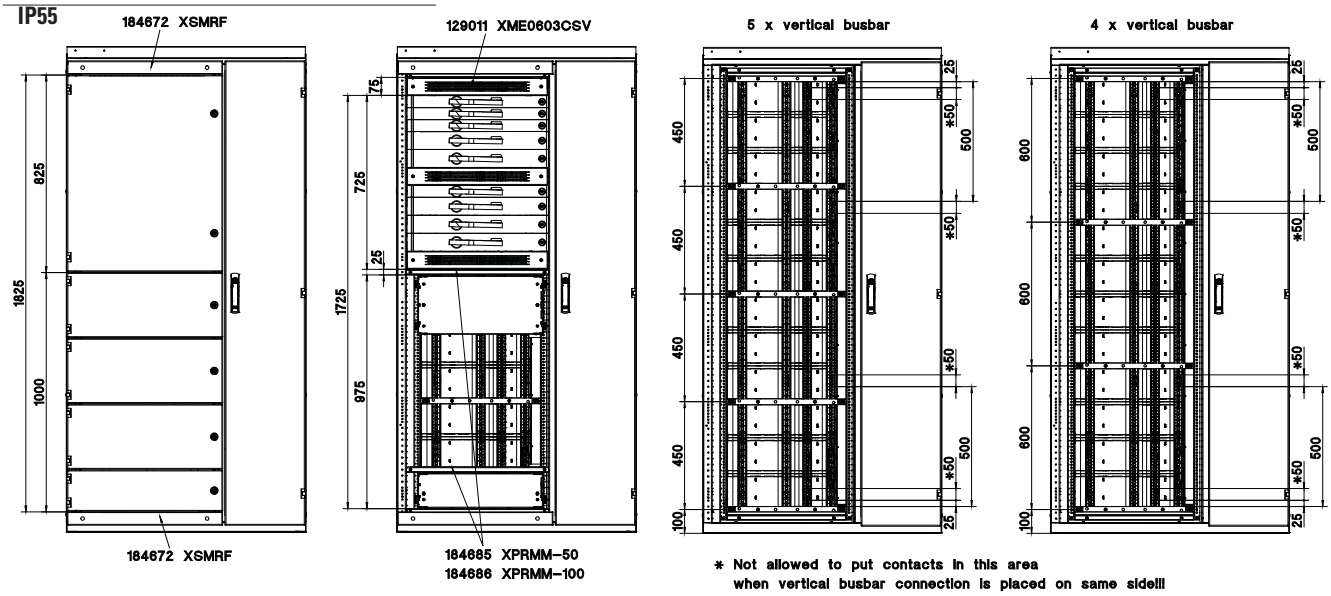
IP31



IP42

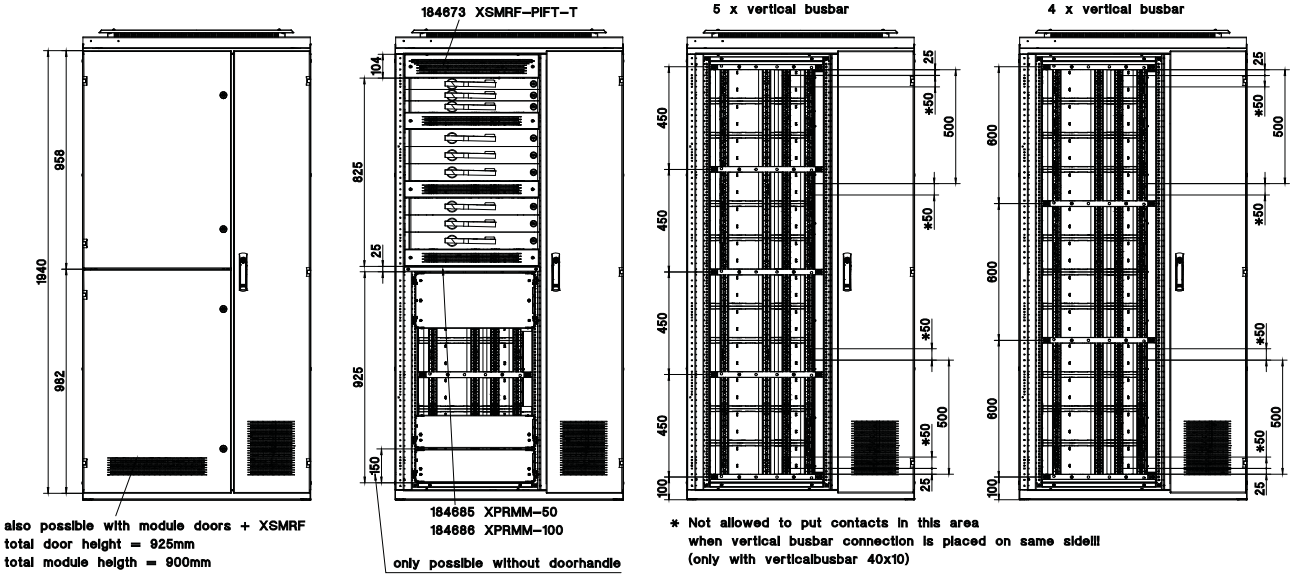


IP55

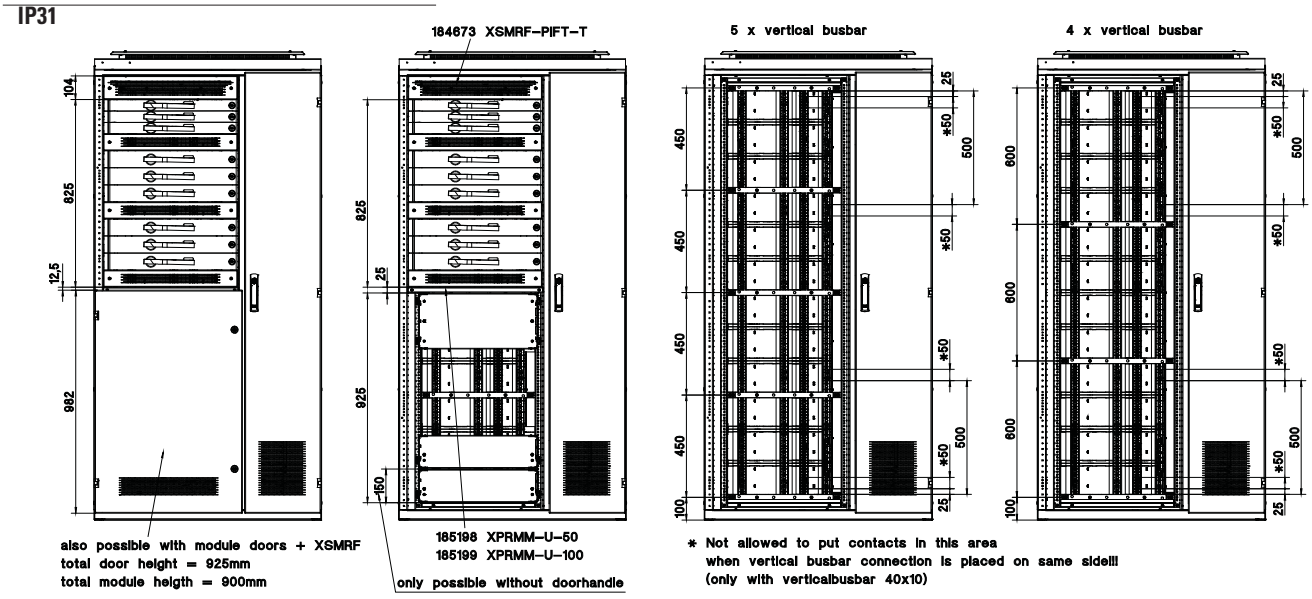


Dimensions mixed setup with fitting frame D -50 to D -125 (continued)

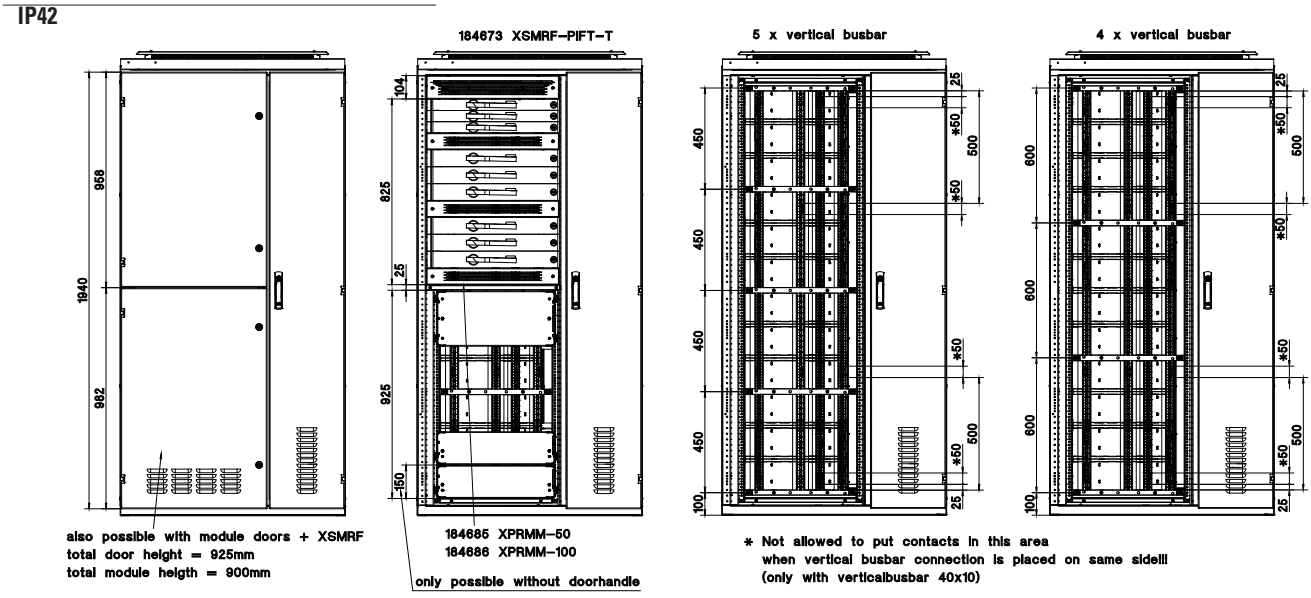
IP31



IP31

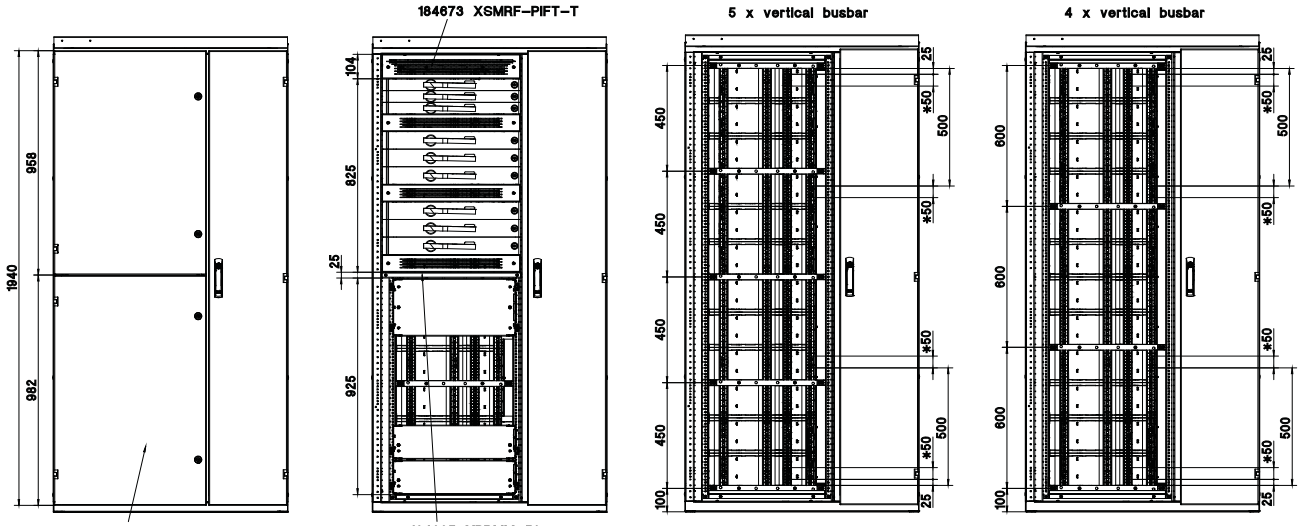


IP42



Dimensions mixed setup with fitting frame D -50 to D -125 (continued)

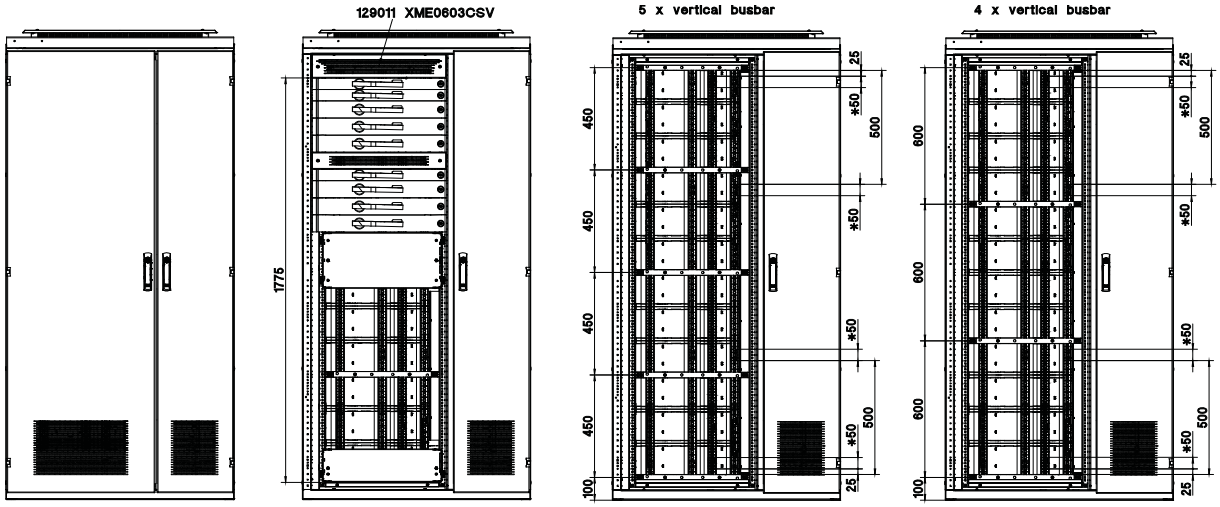
IP55



also possible with module doors + XSMRF
total door height = 925mm
total module heigth = 900mm

* Not allowed to put contacts in this area when vertical busbar connection is placed on same side!! (only with verticalbusbar 40x10)

IP31



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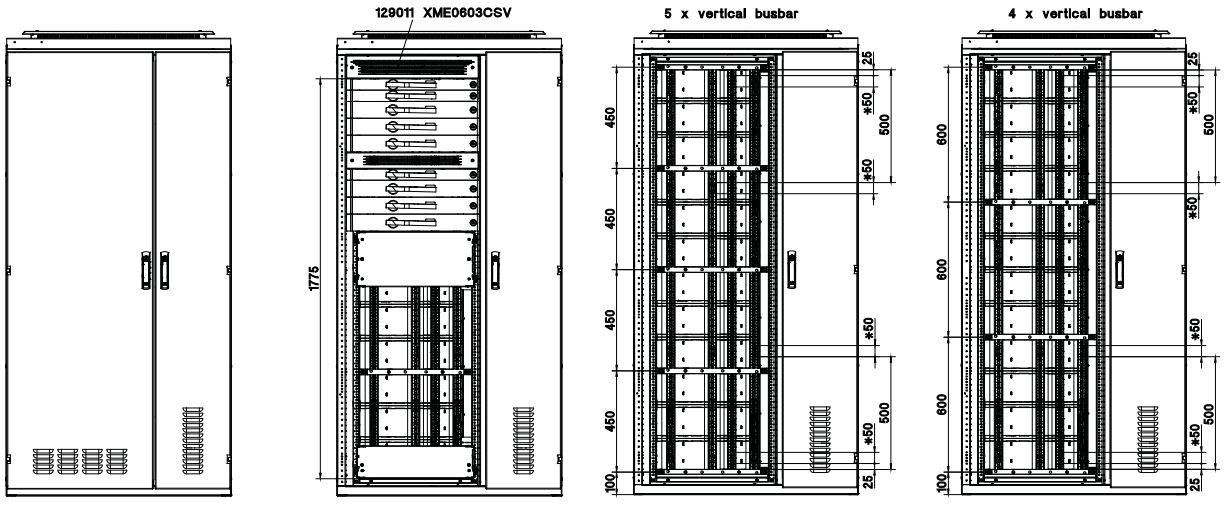
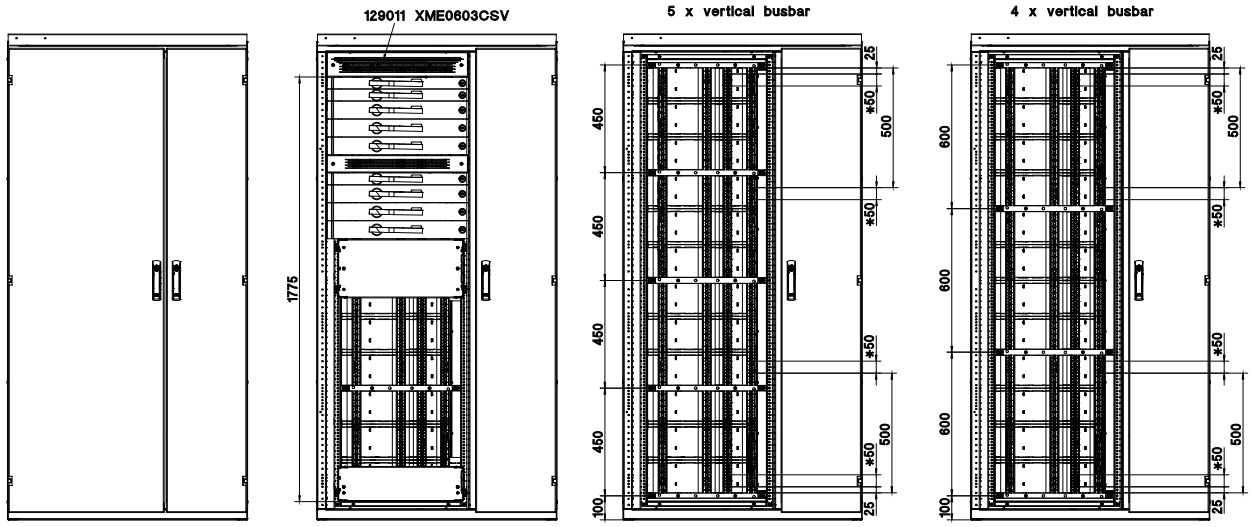
IP42



* Not allowed to put contacts in this area when vertical busbar connection is placed on same side!! (only with verticalbusbar 40x10)

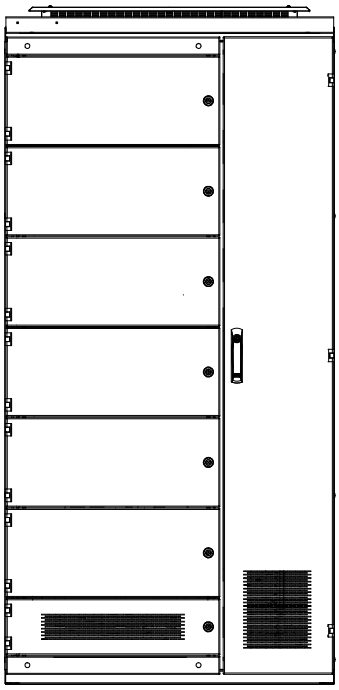
Dimensions mixed setup with fitting frame D -50 to D -125 (continued)

IP55



* Not allowed to put contacts in this area when vertical busbar connection is placed on same side!! (only with verticalbusbar 40x10)

Pure setup – fixed /removable design modules



XR_mixed_nur_Steck

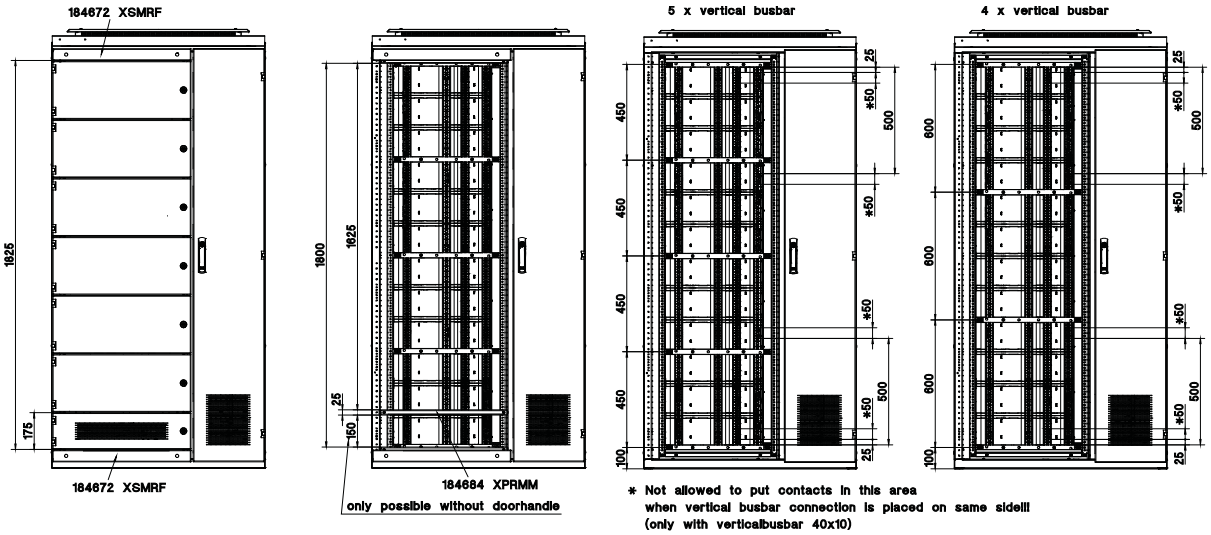
Switchgear area:

- Removable/fixed design modules can be mounted behind separate module doors (Form 4)
- If doors are mounted across modules, max. Form 2 can be accomplished
- If section doors as wide and high as the section are installed, the max. internalal separation of Form 2 can be accomplished
- Arrangement/distribution of the modules can be done at your discretion
- Operation of the switchgear from outside or from behind the door is possible
- Rotary door coupling handles can optionally be integrated into the module doors.
- Connection of all outgoing modules on the incoming side, on a vertically arranged dropper bar system, prepared for removable design with cover for electrical finger-safety.
- The dropper bars can be contacted from the front over the entire height through removable design modules (universal modules)
- Total switchgear/fitting area: max. 1825 mm
- Pay attention to the ventilation concept according to the table in the Ordering Section!!

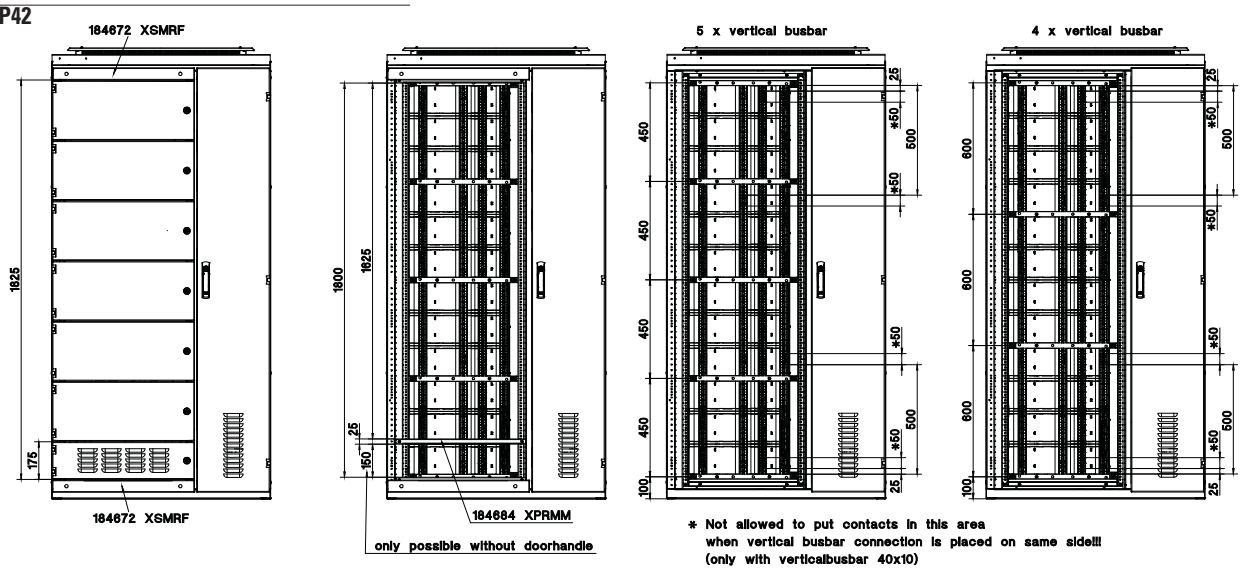
Dimensions

Dimensions pure setup with fitting frame D 0

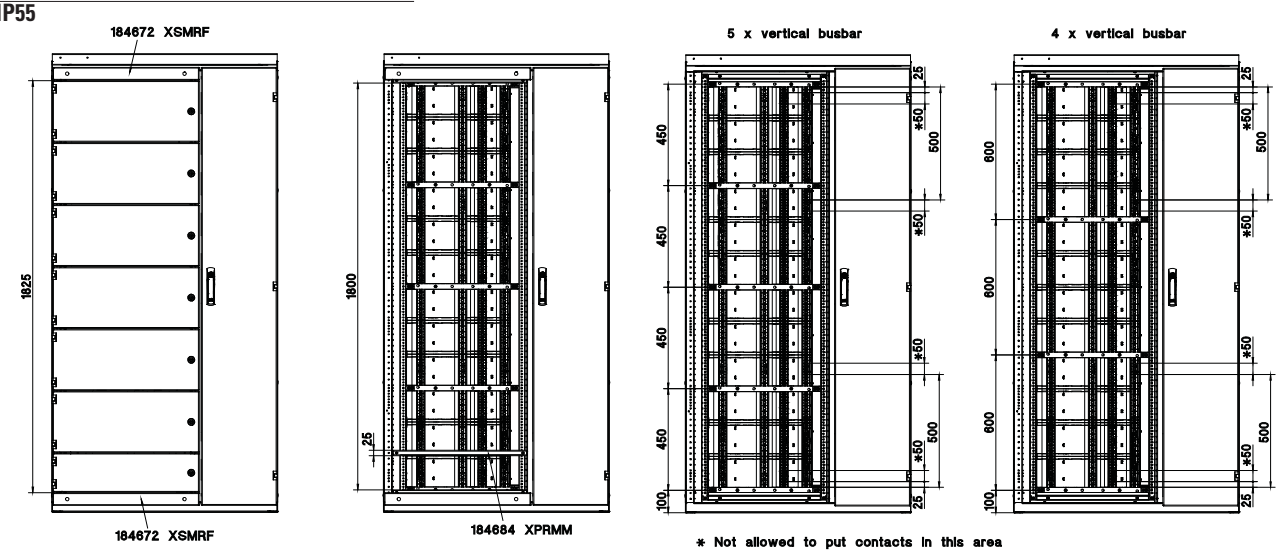
IP31



IP42

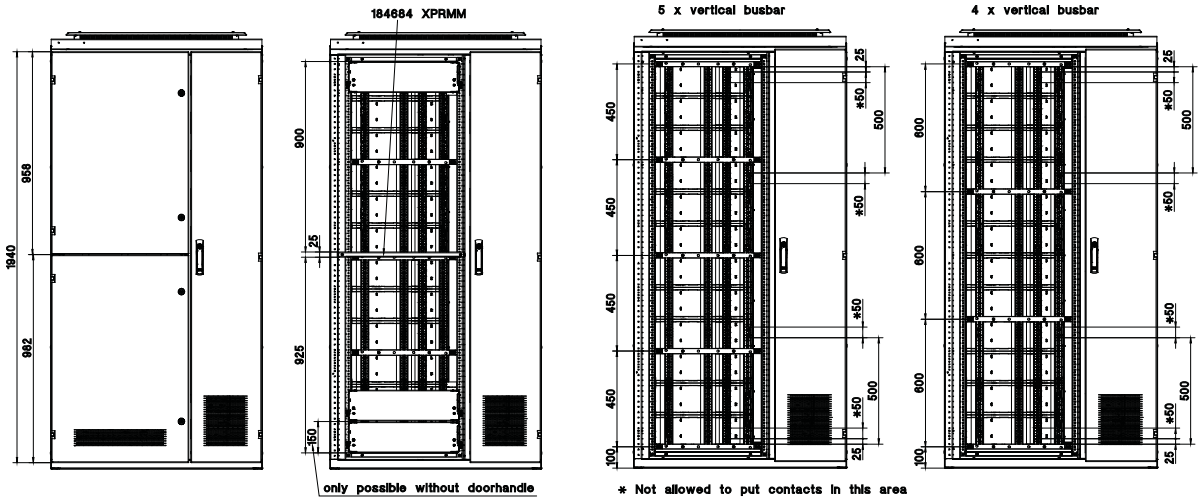


IP55

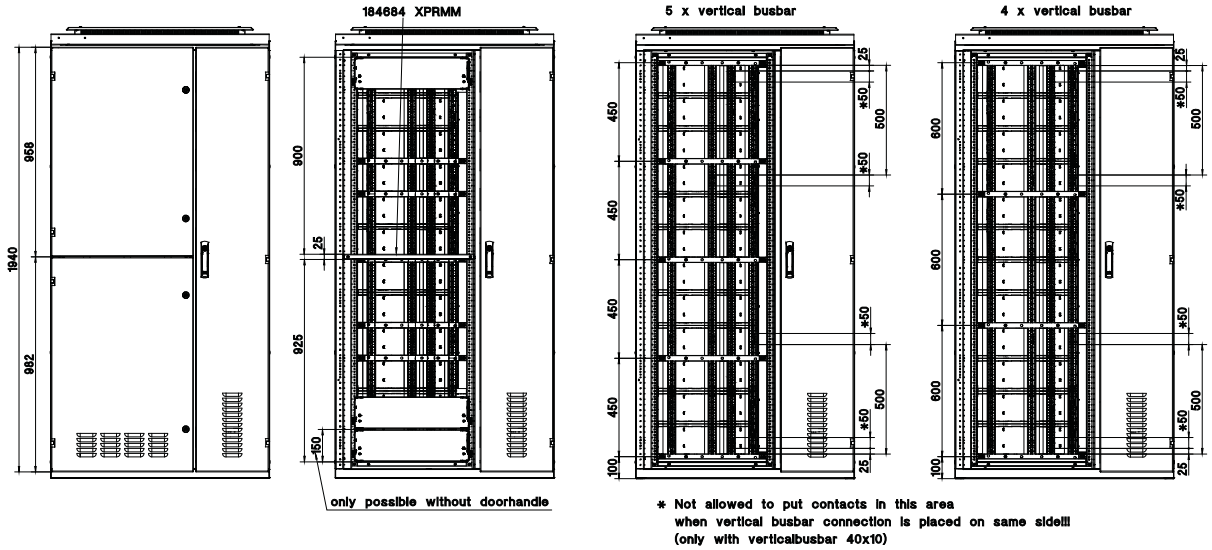


Dimensions pure setup with fitting frame D 0 (continued)

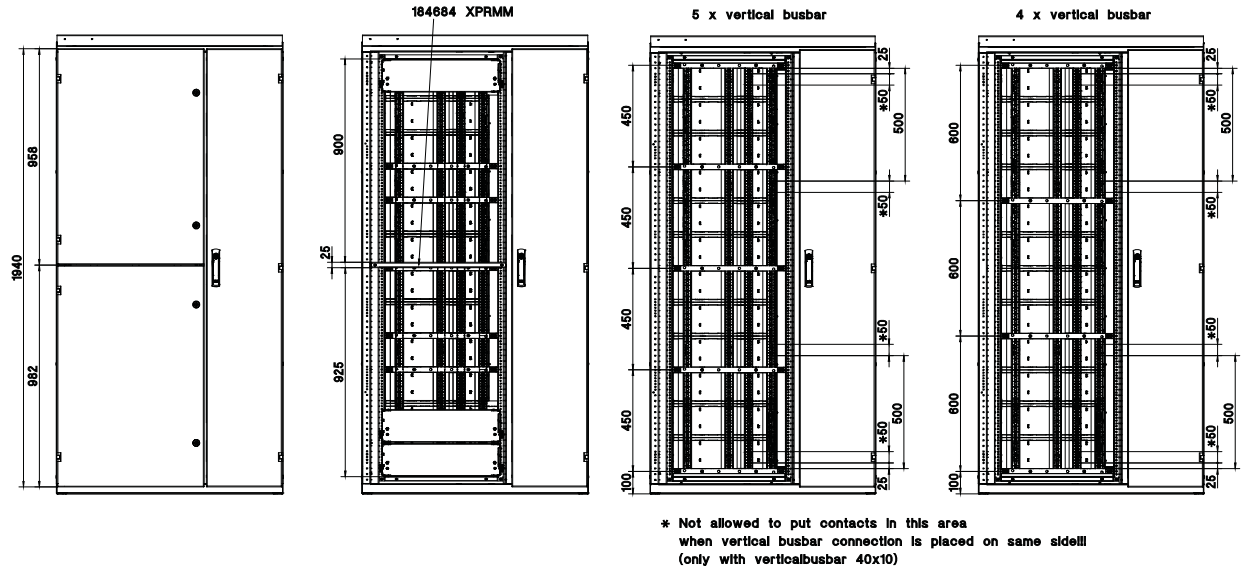
IP31



IP42

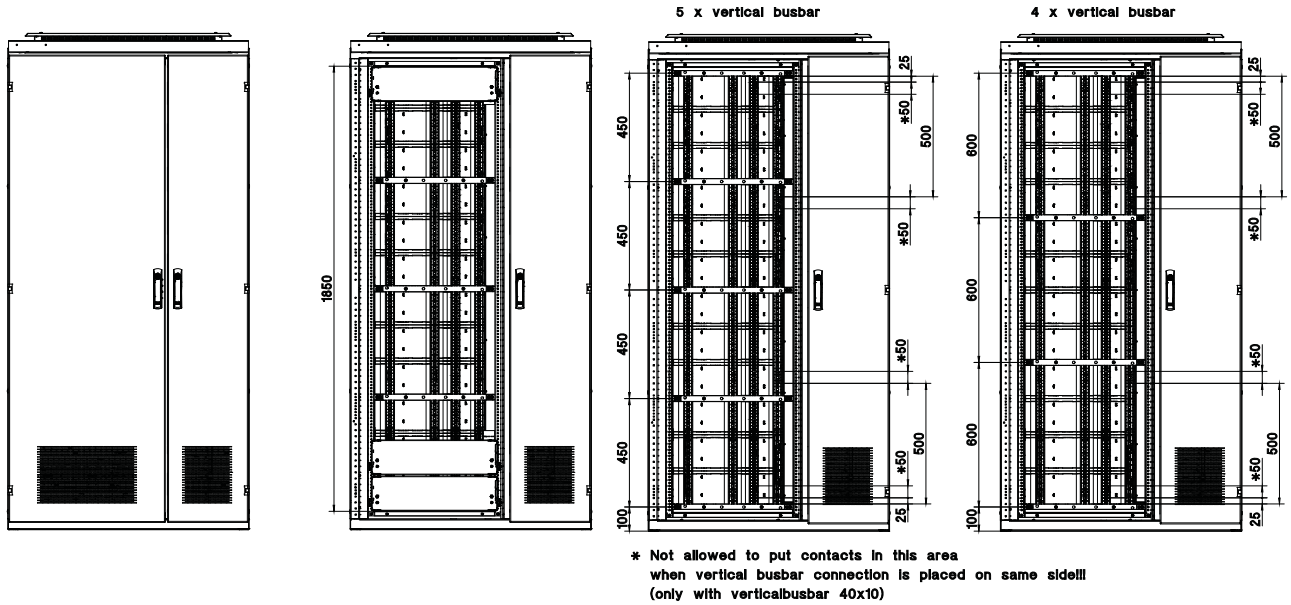


IP55



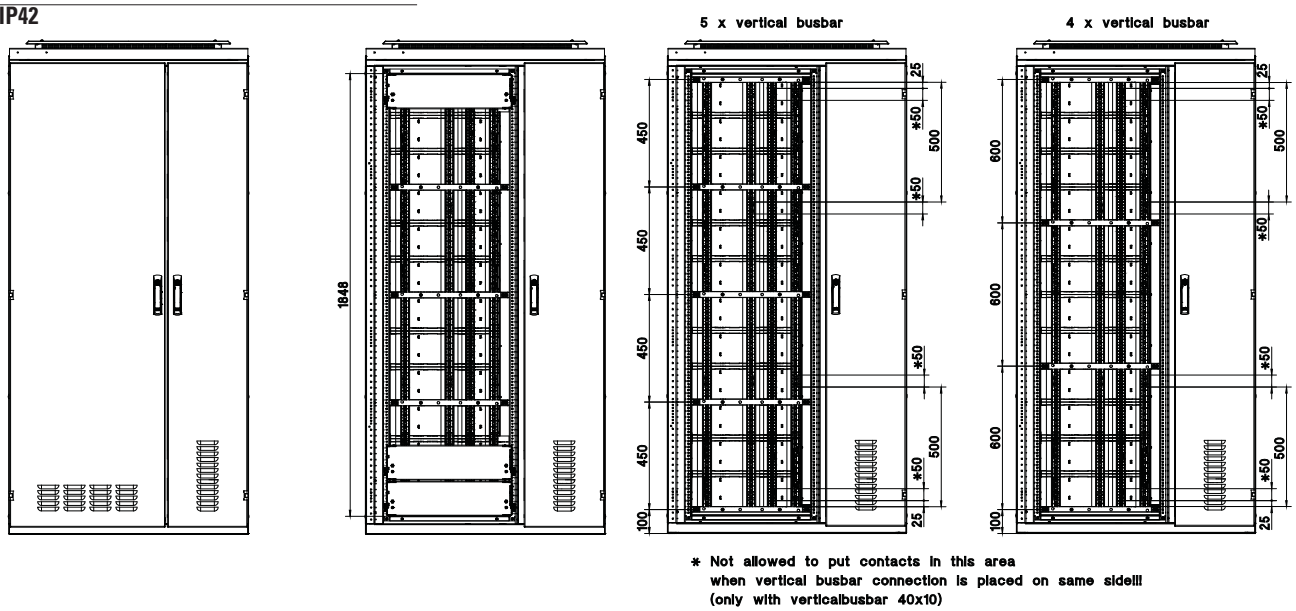
Dimensions pure setup with fitting frame D 0 (continued)

IP31



* Not allowed to put contacts in this area when vertical busbar connection is placed on same side!! (only with verticalbusbar 40x10)

IP42



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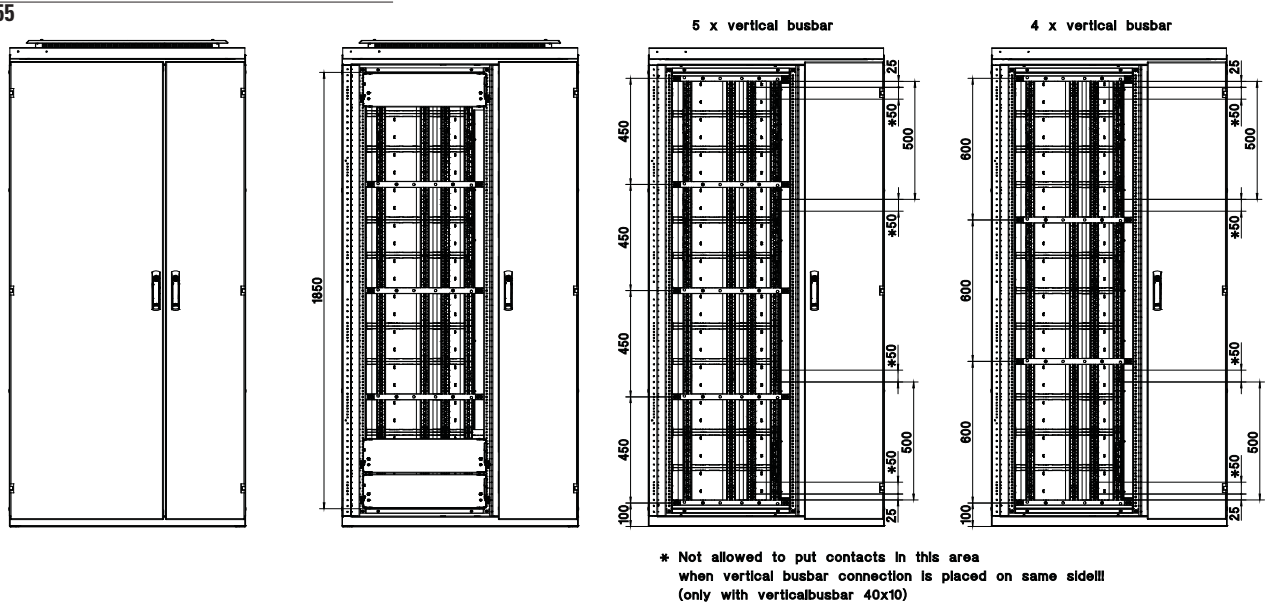
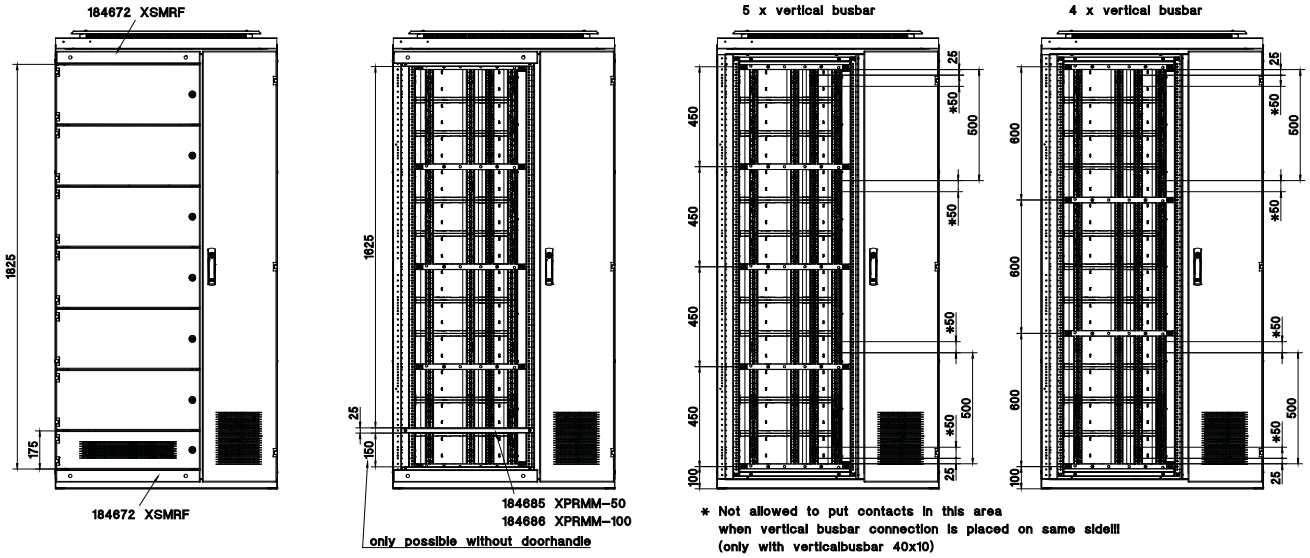
IP55



* Not allowed to put contacts in this area when vertical busbar connection is placed on same side!! (only with verticalbusbar 40x10)

Dimensions pure setup with fitting frame D -50 to D -125

IP31



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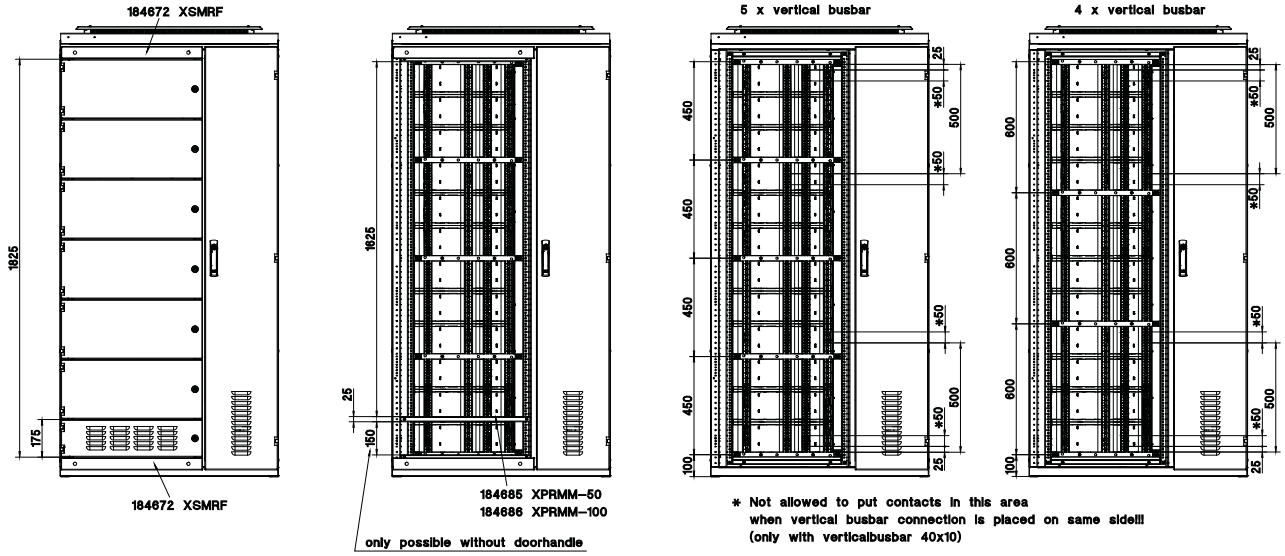
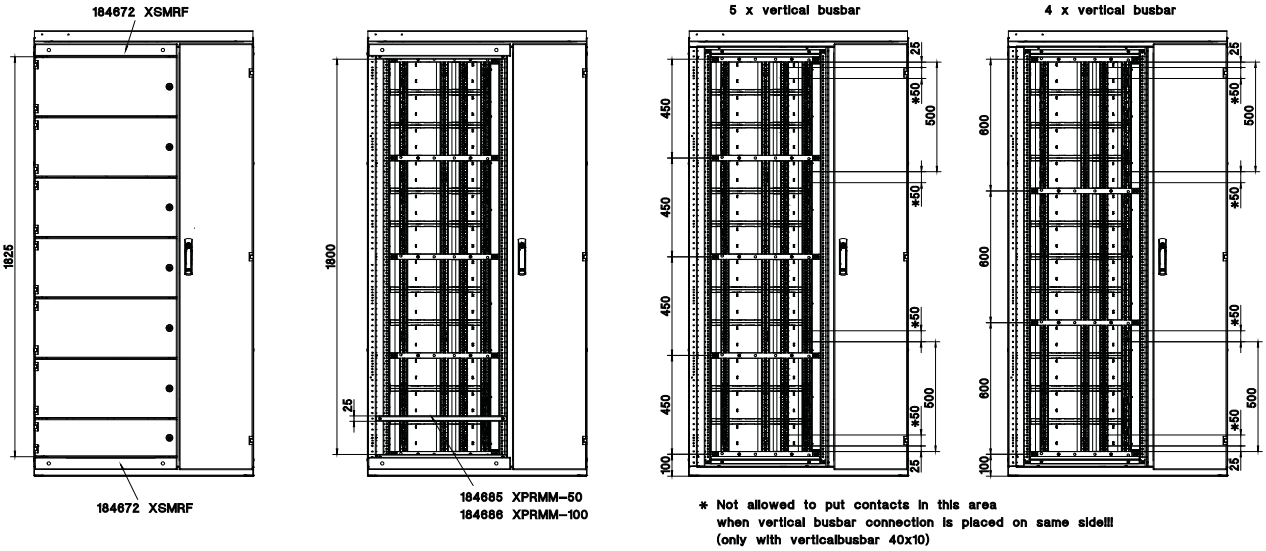
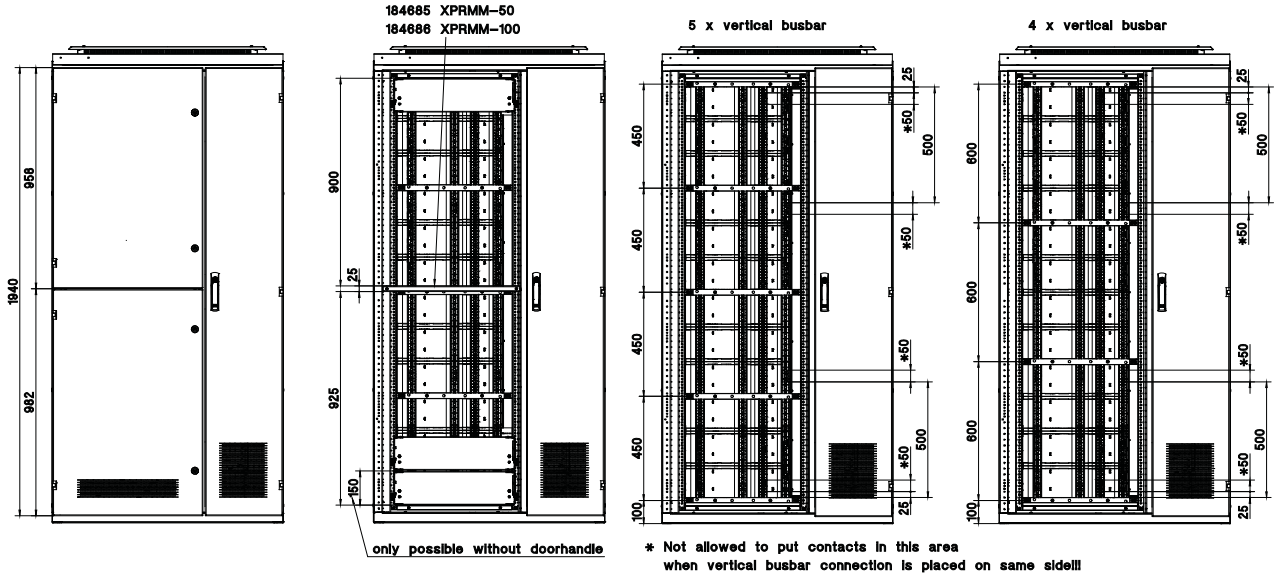


IP55



Dimensions pure setup with fitting frame D -50 to D -125 (continued)

IP31



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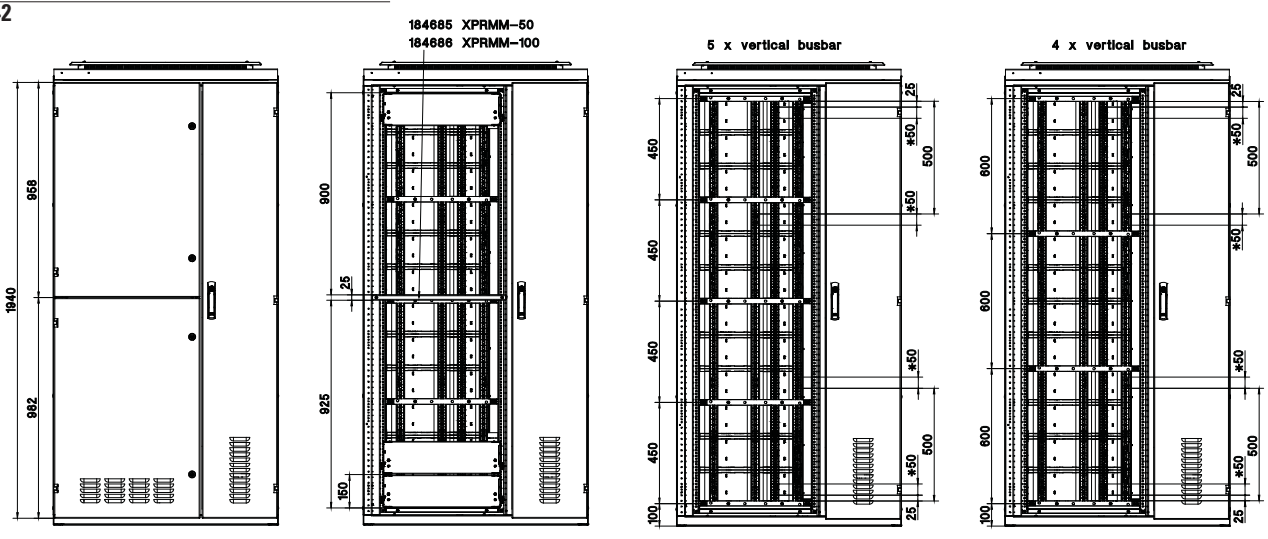
IP42



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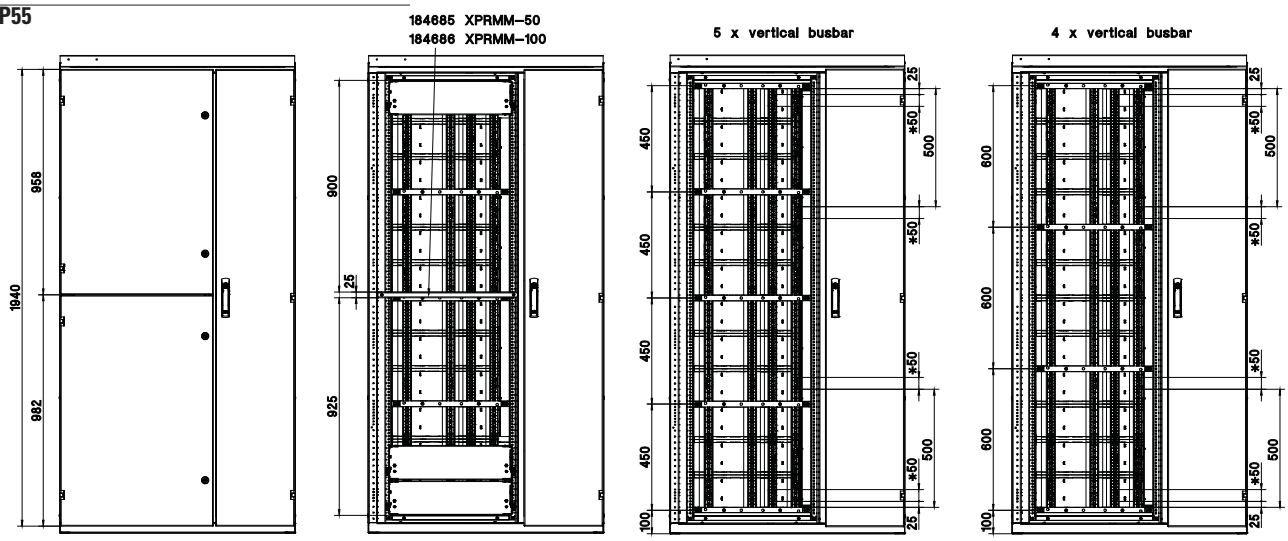
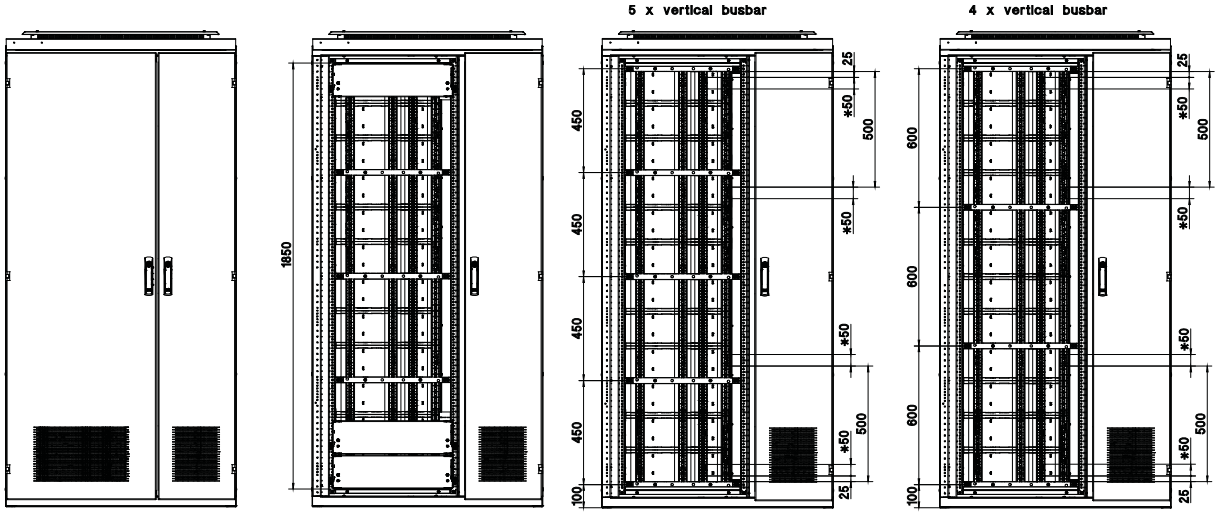
IP55



* Not allowed to put contacts in this area when vertical busbar connection is placed on same side!! (only with verticalbusbar 40x10)

Dimensions pure setup with fitting frame D -50 to D -125 (continued)

IP31



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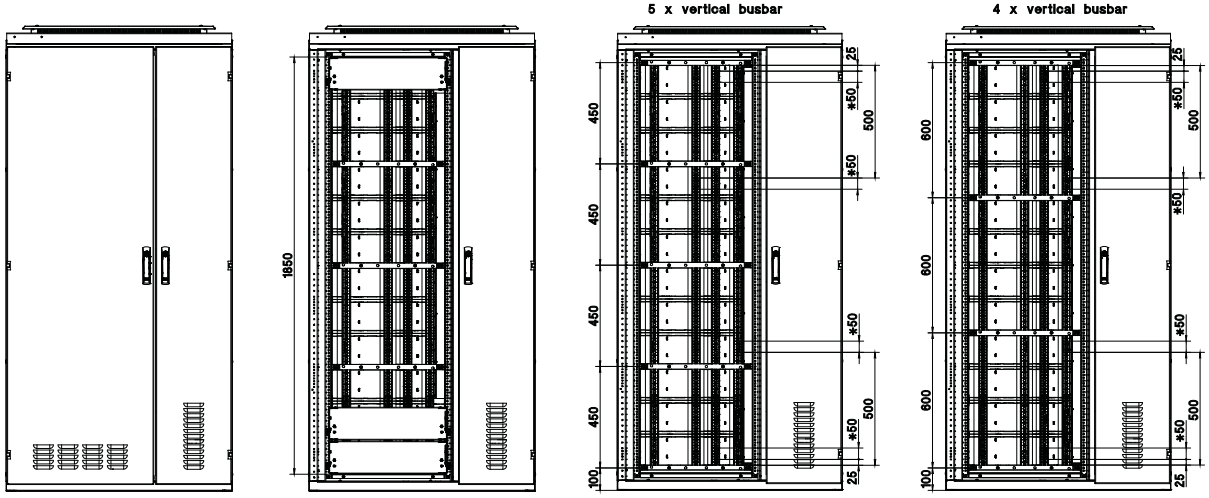
IP42



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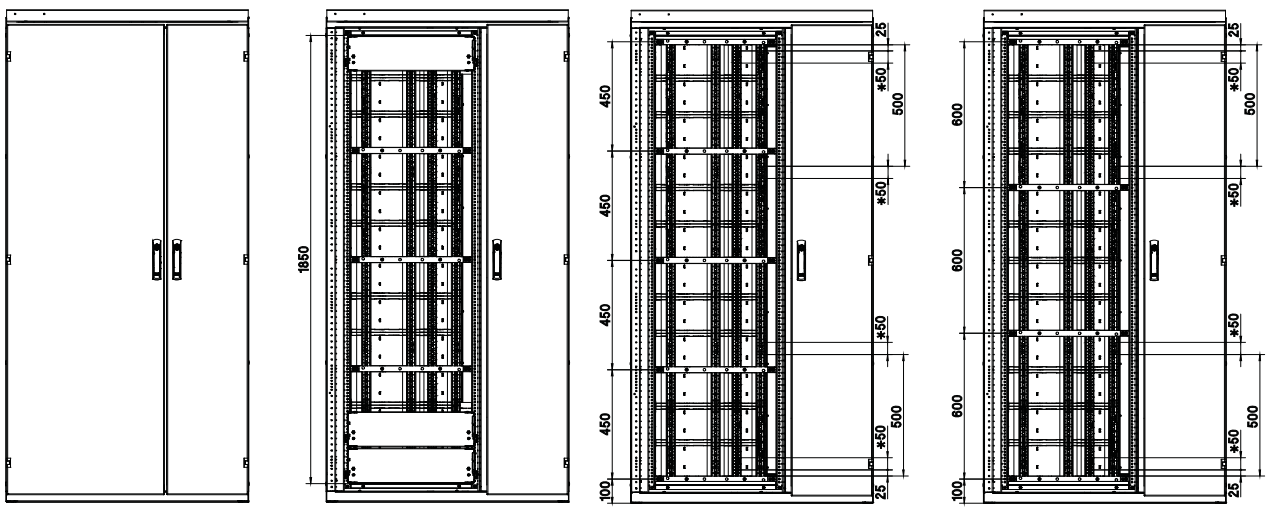
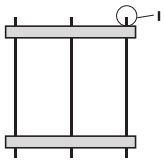
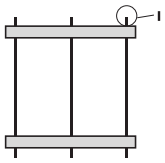
IP55



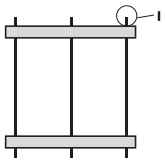
* Not allowed to put contacts in this area when vertical busbar connection is placed on same side!!! (only with verticalbusbar 40x10)

Short-circuit Strength for Busbars

	Busbar I_e A	Busbar cross-section mm²	Max. center-to-center distance of the busbar supports in mm for I_{cw} (1 s) 35 kA mm	45 kA mm	50 kA mm	65 kA mm	80 kA mm
Dropper bars							
 00160086_0	900	1 x 40 x 10	600	450	450	-	-
	1350	1 x 60 x 10	600	600	600	450	-
	1800	1 x 80 x 10	600	600	600	450	450

	Busbar I_e A	Busbar cross-section mm²	Max. center-to-center distance of the busbar supports in mm for I_{cw} (3 s) 35 kA mm	45 kA mm	50 kA mm	65 kA mm	80 kA mm
Dropper bars							
 00160086_0	900	1 x 40 x 10	-	-	-	-	-
	1350	1 x 60 x 10	-	-	-	-	-
	1800	1 x 80 x 10	450	450	450	-	-

Max. Current load and Power loss [P_v] for Busbars Dropper bars

	I_e to	Busbar cross-section L1, L2, L3 and full N	Degree of protection	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections			Power loss P_v		
	A	mm²		25 °C A	35 °C A	50 °C A	25 °C W/m	35 °C W/m	50 °C W/m
Flat copper for horizontally installed outgoing modules XR mixed with busbar holders XDSSV…, center-to-center distance of phases 185 mm									
 00160086_0	900	1 x 40 x 10	IP31 with ventilated top cover	950	900	825	55	50	42
			IP42 with ventilated top	950	900	825	55	50	42
			IP55	700	700	700	30	30	30
	1350	1 x 60 x 10	IP31 with ventilated top cover	1425	1350	1237	85	76	64
			IP42 with ventilated top	1425	1350	1237	85	76	64
			IP55	1050	1050	1050	46	46	46
	1800	1 x 80 x 10	IP31 with ventilated top cover	1900	1800	1650	117	105	88
			IP42 with ventilated top	1900	1800	1650	117	105	88
			IP55	1400	1400	1400	63	63	63

Current Load Modules for Removable Design Modules

Breaker Size/Type	Number of modules per section	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections								
		IP31			**IP42**			**IP55**		
		25 °C A	35 °C A	50 °C A	25 °C A	35 °C A	50 °C A	25 °C A	35 °C A	50 °C A
PKZM0-32	1	33	31	17	33	31	17	24	23	14
PKZM0-32	3	33	31	17	33	31	17	24	23	14
PKZM0-32	5	32	30	17	32	30	17	24	23	14
PKZM0-32	7	32	30	17	32	30	17	23	22	14
PKZM0-32	10	32	30	16	32	30	16	23	22	13
PKZM0-32	20	31	29	16	31	29	16	22	21	13
PKZM0-32	30	29	27	15	29	27	15	21	20	12
PKZM0-32	40	28	26	15	28	26	15	20	19	12
PKZM0-32	50	27	25	14	27	25	14	19	18	11
PKZM0-32	100	19	18	11	19	18	11	14	13	8
PKZM4-50	1	45	42	38	45	42	38	38	36	28
PKZM4-50	3	45	42	38	45	42	38	37	35	28
PKZM4-50	5	43	41	37	43	41	37	37	35	27
PKZM4-50	7	43	41	37	43	41	37	37	35	27
PKZM4-50	10	42	40	36	42	40	36	36	34	27
PKZM4-50	20	41	39	35	41	39	35	34	32	25
PKZM4-50	30	39	37	33	39	37	33	32	30	24
PKZM4-50	40	38	36	32	38	36	32	31	29	22
PKZM4-50	50	36	34	30	36	34	30	28	28	21
PKZM4-50	100	19	18	17	19	18	17	14	14	14
PKE32	1	34	32	20	34	32	20	23	22	16
PKE32	3	34	32	20	34	32	20	23	22	16
PKE32	5	33	31	20	33	31	20	23	22	16
PKE32	7	33	31	19	33	31	19	22	21	16
PKE32	10	33	31	19	33	31	19	22	21	15
PKE32	20	32	30	18	32	30	18	21	20	15
PKE32	30	30	28	18	30	28	18	21	20	14
PKE32	40	29	27	17	29	27	17	20	19	14
PKE32	50	28	26	16	28	26	16	19	18	13
PKE32	100	19	18	12	19	18	12	14	14	10
PKE65	1	69	65	54	69	65	54	48	45	42
PKE65	3	68	64	53	68	64	53	47	44	41
PKE65	5	67	63	52	67	63	52	47	44	41
PKE65	7	66	62	51	66	62	51	46	43	40
PKE65	10	65	61	50	65	61	50	46	43	40
PKE65	20	59	56	47	59	56	47	42	40	38
PKE65	30	55	52	43	55	52	43	40	38	35
PKE65	40	48	45	39	48	45	39	35	35	33
PKE65	50	38	36	33	38	36	33	28	28	28
PKE65	100	19	18	17	19	18	17	14	14	14

Current Load Modules for Removable Design Modules

Breaker Size/Type	Number of modules per section	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections								
		IP31			**IP42**			**IP55**		
		25 °C A	35 °C A	50 °C A	25 °C A	35 °C A	50 °C A	25 °C A	35 °C A	50 °C A
NZM1	1	134	126	93	134	126	93	119	112	70
NZM1	3	129	122	90	129	122	90	112	106	66
NZM1	5	127	120	88	127	120	88	108	102	64
NZM1	7	124	117	86	124	117	86	104	98	61
NZM1	10	120	113	84	120	113	84	98	92	57
NZM1	15	113	107	79	113	107	79	87	82	51
NZM1	20	95	90	83	95	90	83	70	70	45
NZM2	1	236	223	165	236	223	165	198	187	123
NZM2	3	224	211	156	224	211	156	183	173	116
NZM2	5	214	202	149	214	202	149	174	164	111
NZM2	7	206	194	143	206	194	143	164	155	106
NZM2	8	201	190	140	201	190	140	159	150	103
NZM2	10	190	180	134	190	180	134	140	140	98
NZM2	12	158	150	138	158	150	128	117	117	93
NZM3	1	594	560	415	594	560	415	464	438	310
NZM3	2	534	504	374	534	504	374	402	379	279
NZM3	3	505	476	353	505	476	353	371	350	264
NZM3	4	475	448	332	475	448	332	350	321	248
NZM3	5	380	360	330	380	360	312	280	280	233
NZM3	7	271	257	236	271	257	236	200	200	200
NZM3	10	190	180	165	190	180	165	140	140	140
NZM3	1	488	460	341	488	460	341	361	341	254
NZM3	2	452	426	316	452	426	316	325	307	229
NZM3	3	432	408	303	432	408	303	307	290	216
NZM3	4	414	391	290	414	391	290	289	273	203
NZM3	5	380	360	277	380	360	277	280	256	190
NZM3	7	271	257	236	271	257	236	200	200	165
NZM3	10	190	180	165	190	180	165	140	140	127

Current Load for PIFT Fuse Strips up to a max. of 630 A

Breaker Size/Type	Number of modules per section	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections								
		IP31			**IP42**			**IP55**		
		25 °C A	35 °C A	50 °C A	25 °C A	35 °C A	50 °C A	25 °C A	35 °C A	50 °C A
PIFT00 (1)	1	133	125	100	133	125	100	96	91	91
PIFT00 (3)	3	128	121	97	128	121	96	93	88	88
PIFT00 (5)	5	126	119	95	125	118	94	91	86	86
PIFT00 (7)	7	123	116	93	122	115	92	88	83	83
PIFT00 (10)	10	120	113	90	117	110	88	85	80	80
PIFT00 (20)	20	106	100	80	101	95	76	73	69	69
PIFT00 (30)	30	69	65	60	69	65	60	64	60	60
PIFT1 (1)	1	191	180	144	191	180	144	139	131	131
PIFT1 (3)	3	183	173	138	177	167	134	129	122	122
PIFT1 (5)	5	178	168	134	169	159	127	123	116	116
PIFT1 (7)	7	173	163	130	159	150	120	116	109	109
PIFT1 (10)	10	164	155	124	145	137	109	106	100	100
PIFT1 (20)	20	69	65	65	69	65	65	69	65	65
PIFT2 (1)	1	334	315	253	334	315	253	244	230	230
PIFT2 (3)	3	313	295	237	313	295	237	228	215	215
PIFT2 (5)	5	299	282	226	299	282	226	217	205	205
PIFT2 (7)	7	272	257	205	272	257	205	186	175	175
PIFT2 (10)	10	191	180	165	191	180	165	148	140	140
PIFT3 (1)	1	519	490	394	519	490	394	379	358	358
PIFT3 (3)	3	448	423	340	432	408	327	315	297	297
PIFT3 (4)	4	424	400	322	403	380	305	254	240	240
PIFT3 (5)	5	371	350	310	371	350	280	186	175	175
PIFT3 (7)	7	272	257	235	272	257	235	148	140	140
PIFT3 (10)	10	191	180	165	191	180	165	–	–	–

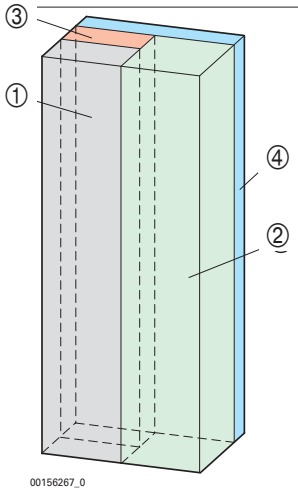
Current Load for QSA Fuse Load Switch

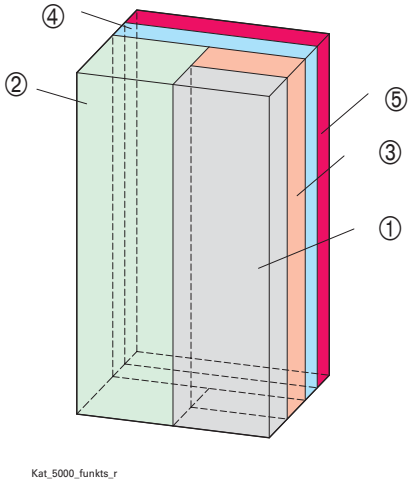
Frame/Type	Number of modules per section	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections					
		IP31 top ventilation			**IP31 top closed**		
		25 °C A	35 °C A	50 °C A	25 °C A	35 °C A	50 °C A
QSA Box1	2	136	132	128	135	131	127
	4	133	129	125	132	128	124
	6	130	127	123	129	126	122
	8	128	124	120	127	123	119
	10	125	121	118	124	120	117
	12	122	119	115	121	118	114
	14	119	116	113	118	115	112
	16	117	113	110	116	113	109
	18	114	111	108	113	110	107
	20	111	108	105	110	107	104
	22	109	105	102	108	105	102
QSA Box2, 250 A	1	243	236	229	241	234	227
	2	237	230	223	235	228	221
	3	231	224	218	229	222	216
	4	225	218	212	223	216	210
	5	218	212	206	217	210	204
	6	212	206	200	211	205	199
	7	206	201	195	205	199	193
	8	200	195	189	198	193	187
	9	194	189	183	192	187	182
QSA Box2, 400 A	1	354	344	334	347	337	327
	2	345	335	326	338	328	319
	3	336	327	317	329	320	311
	4	327	318	309	321	312	302
	5	319	310	301	312	303	294
	6	310	301	292	303	295	286
	7	301	292	284	295	286	278
	8	292	284	276	286	278	270
	9	283	275	267	277	270	262
QSA Box3, DIN	1	604	587	570	604	587	570
	2	562	546	530	562	546	530
	3	520	505	490	520	505	490
	4	483	470	456	483	470	456
QSA Box3, BS	1	630	618	600	615	598	580
	2	591	575	558	572	556	539
	3	547	532	516	529	514	499
	4	509	495	480	492	478	464

XW Outgoing sections in fully withdrawable design

Functional areas

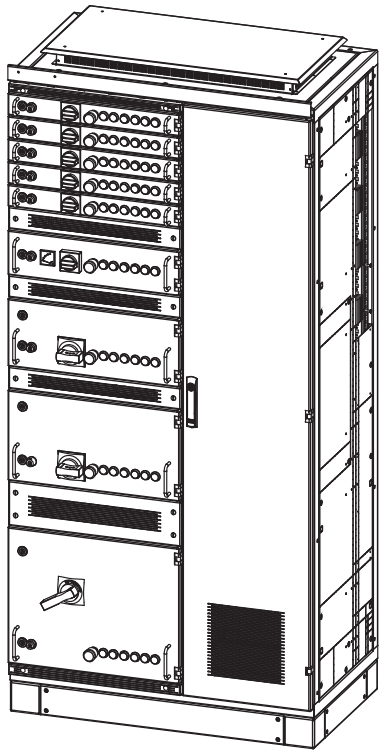
Busbar rear-mounted





1 Switchgear area
2 Cable connection area
3 Dropper bars
4 Main busbars
5 Additional main busbar area for 5000 A

XW Outgoing sections for Motor Control Centers in withdrawable design



Katalog_zeichnung MCC_metall Front

Heights and versions of the withdrawable design:
Configuration as power outgoer, direct starter, reverse starter, star-triangle starter

- in the widths of 1000 and 1200 mm
- in section depths of 600, 800 and 1000 mm
- 3 or 4 poles
- rated current of dropper bars I_n=1000 or 2000 A / 3 or 4 poles
- max. short-circuit current I_{CW}=80 kA
- I_e max = 480 V AC
- IP31/42/55
- to keep IP31 with drawers in test position or in open position you need to use design strip /rain shield (type XSDR10(12)-X1-B)
- shelf-boards can be individually mounted in height, depending on the size of the modules
- max. height of the dropper bar available for equipment = 1875 mm
- cable connection area is fully sealed off from the switchgear area, main busbar area and dropper bar area
- dropper bar is fully sealed off at the front thanks to self-closing shutters
- drawers available:
  power outgoers up to 630 A
  direct starters from 0.06-132 kW
  reverse starters from 0.06-132 kW
  star-triangle starters from 5.5-110 kW
- outgoers from 132 to 250 kW are executed as fixed design solutions

Switchgear area:
· max. height of switchgear area available for equipment = 1875 mm
· connection of modules (main/control circuit) both on the incoming and outgoing side is done on plug-type contact blocks. The outgoing plug-type contact block is mounted in the correct current rating on the shelf-board, which is then inserted into the switchgear area and fixed at the correct height.

Dropper bars:
· center-to-center distance between phases: 60 mm
· rated current I_n: 1000 and 2000 A
· Rated short-time withstand current I_{CW}: up to 80 kA

Cable connection area:
· cable connection has to be done on the right side of the distribution section, outgoing cables can be inserted either from the bottom or from the top
· cable strain relief rails on the right side of the cabinet ensure a neat and safe guidance of outgoing cables
· access to the cable connection area is provided through a separate door to the cable connection area which is fully sealed off from busbar areas and the switchgear area
· vertical PE, N or PEN rails are mounted in the cable connection area and can be equipped with connections for any outgoing cable

Modules:
· Each module can be individually equipped, depending on whether you need a direct starter module or a reverse starter combination. Setup and dimensioning have to be done according to the enclosed instructions (AWA and BA).
· A detailed circuit / wiring plan provides information on the correct way of wiring the switchgear in the module
· The front covers of each module come with numerous punch holes and cut-outs so as to allow the individual integration options for all the required control units to be accommodated in each module
· Main-current contacting of the modules is done through plug-type contact terminals in line with the corresponding rating; these terminals are directly mounted on the shelf-board.
· Contacting the control lines is done via a plug-type terminal block which sticks out into the cable connection area. From there it is easy to do the control wiring in an extremely convenient way.

Finishes of the module fronts:

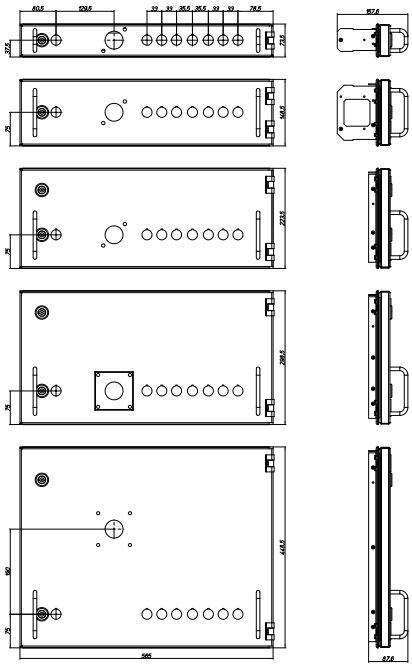
Module fronts are available in two different materials:
In plastic and in metal.

Metal front:

The metal front will be supplied as one unit together with the base plate/frame. The base frame is firmly screw-fixed to the module. The front as such is set up like a door with hinges and will therefore provide free access to all components positioned behind it as well as to the corresponding wiring. To meet IP 55 requirements, the metal carrier frame is equipped with a heat-applied polyurethane 2-component foam sealing. For IP 31 or IPP 55 the door is designed with sealing, so the sealing area between the carrier frame and the door is neatly sealed.

Dimensions of the module fronts:

Metal front:



Module height = 75 mm

Module height = 150 mm

Module height = 225 mm

Module height = 300 mm

Module height = 450 mm

MCC_MFR_1

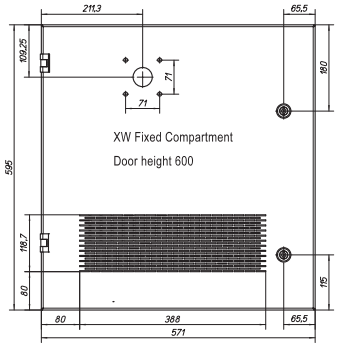
Setup of fixed modules:

Heights 600 mm and 750 mm.
Due to their weight modules higher than 450 mm need to be fixed in the MCC cabinet and screw-fixed to it. Generally you can use the same components as with smaller modules.

Dimensions of Fixed Modules:

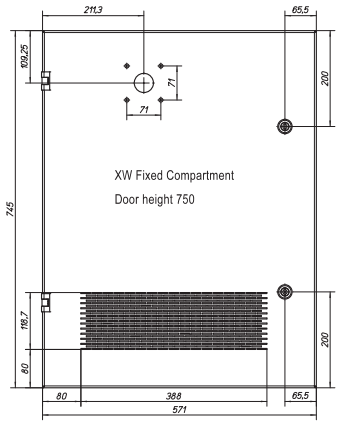
Dimensions of the doors:

Height 600 mm



MCC_Fix_H600_H750_Door

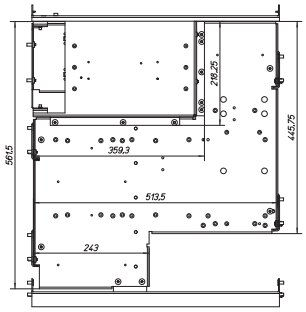
Height 750 mm



MCC_Fix_H600_H750_Door

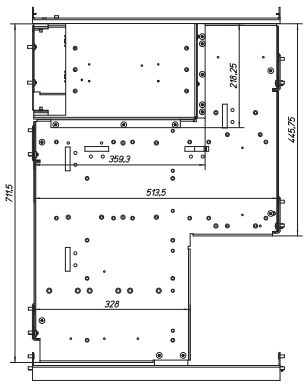
Dimensions of Fixed Modules:

Front view of the mounting plate Height 600 mm



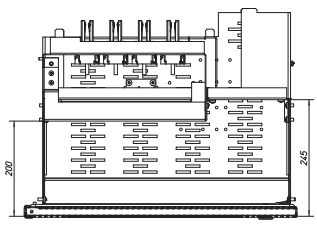
MCC_Fix_H600_H750

Front view of the mounting plate Height 750 mm



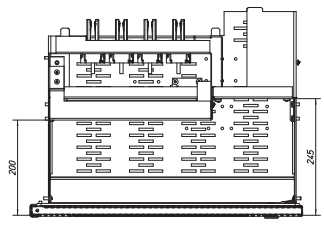
MCC_Fix_H600_H750

Top view Height 600 mm



MCC_Fix_H600_H750

Top view Height 750 mm



MCC_Fix_H600_H750

Overview of the different drawers listed according to module heights and performance (amperage)

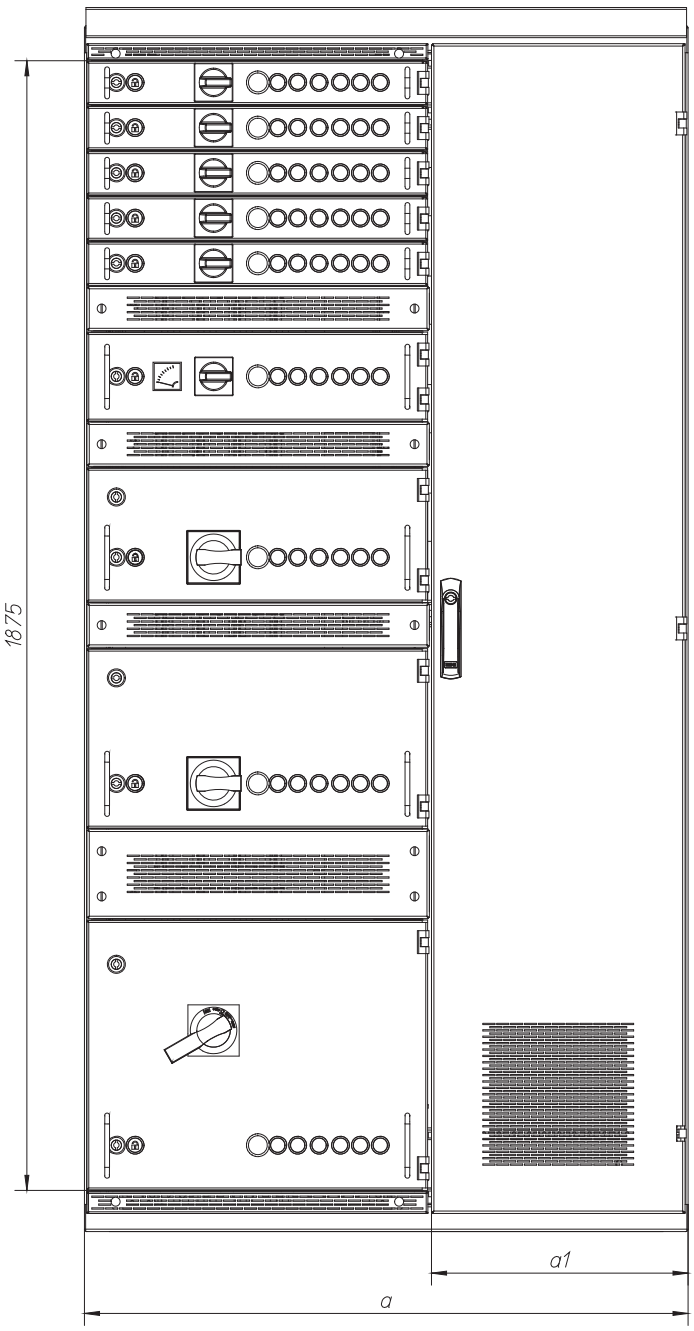
IP31

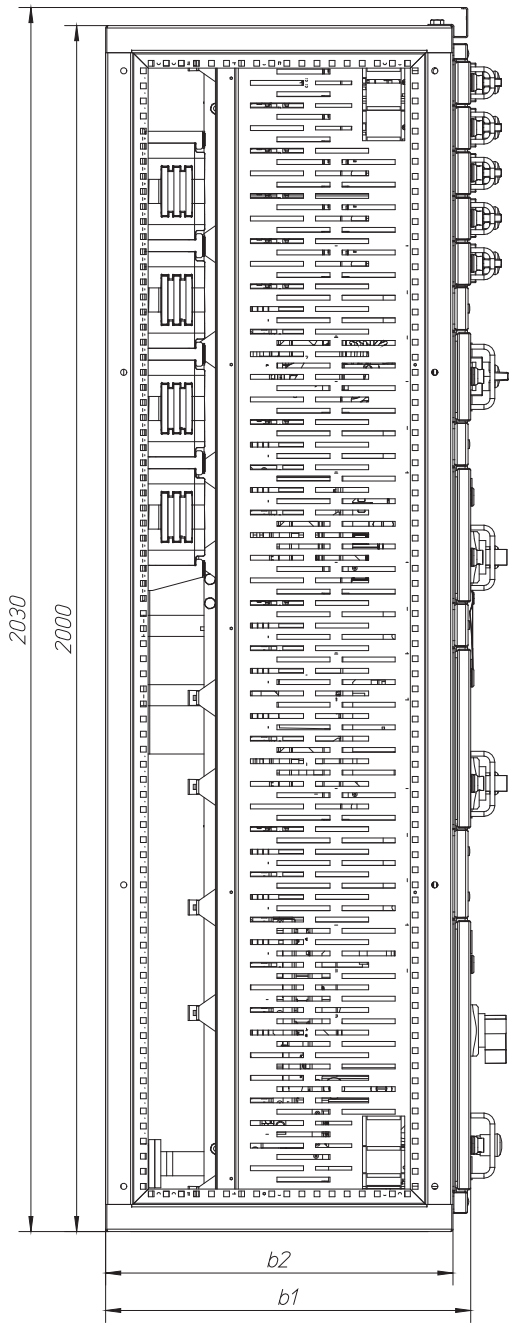
Module height mm	Drawers	50 kA Performance or amperage	80 kA Performance or amperage
75	FE3P	16-32A	16-32A
	DOL	3-15kW	0.06-15kW
	FR	3-15kW	0.06-15kW
150	FE3P	20-200A	20-200A
	FC3P	20-100A	20-100A
	DOL	18.5-45kW	18.5-45kW
	FR	18.5-22kW	-
	SD	5.5-15kW	7.5-15kW
225	FE4P	20-200A	20-200A
	FC3P	125A	125A
	FC4P	20-125A	20-125A
	DOL	55-75kW	55-75kW
	FR	30-75kW	18.5-75kW
	SD	18.5-22kW	-
300	FE3P	250A	250A
	FE4P	250A	250A
	FC3P	160-200A	160-200A
	DOL	90kW	90kW
	FR	-	-
	SD	37-75kW	18.5-75kW
450	FE3P	400A	400A
	FE4P	400A	400A
	FC3P	250-300A	250-300A
	FC4P	160-300A	160-300A
	DOL	110-160A	110-160A
	FR	90-110kW	90-110kW
As of a height of 600 mm it is only possible to create a set-up with fixed modules			
600	FE3P	630A	630A
	FE4P	630A	630A
	FC3P	400-630A	400-630A
	FC4P	400-630A	400-630A
	DOL	200-250kW	200-250kW
	FR	132-160kW	132-160kW
	SD	90-250kW	90-250kW
750	FR	200-250kW	200-250kW
	SD	-	250kW

IP55

Module height mm	Drawers	50 kA Performance or amperage	80 kA Performance or amperage
75	FE3P	16-25A	16-25A
	DOL	3-11kW	0.06-11kW
	FR	3-11kW	0.06-11kW
150	FE3P	20-160A	20-160A
	FC3P	20-80A	20-80A
	DOL	15-37kW	15-37kW
	FR	15-18.5kW	-
	SD	5.5-11kW	7.5-11kW
225	FE4P	20-160A	20-160A
	FC3P	100-125A	100-125A
	FC4P	20-125A	20-125A
	DOL	45-55kW	45-55kW
	FR	22-55kW	15-55kW
	SD	15-18.5kW	-
300	FE3P	200A	200A
	FE4P	200A	200A
	FC3P	160A	160A
	DOL	75kW	75kW
	FR	-	-
	SD	22-55kW	15-55kW
450	FE3P	400A	400A
	FE4P	400A	400A
	FC3P	250A	250A
	FC4P	160-250A	160-250A
	DOL	90-110A	90-110A
	FR	75-90kW	75-90kW
As of a height of 600 mm it is only possible to create a set-up with fixed modules			
600	FE3P	630A	630A
	FE4P	630A	630A
	FC3P	400A	400A
	FC4P	400A	400A
	DOL	132-200kW	132-200kW
	FR	110kW	110kW
	SD	75-200kW	75-200kW
750	FR	132-200kW	132-200kW
	SD	250kW	250kW

Dimensions





Katalog_zeichnung MCC_metall Front

b1	b2
600	575
800	775

a1	a2
1000	425
1200	625

Smart Wire in xEnergy Main

What is SmartWire-DT®

SmartWire-DT® is a wiring and communication system for industrial control systems; it can be used both in the electrical cabinet and in the periphery. It replaces the control wiring which up to now was necessary for the switchgear as well as the input and output components, and it connects up to 99 SmartWire-DT® participants in an SWD string. An SWD string can be expanded to up to a max. of 600 m.

For more information on SmartWire-DT® please visit:

www.eaton.com/moeller → Support

and enter the search key "Das System" ("The system") in the quick search function.

How to incorporate SmartWire-DT® in the MCC

Key requirement:
Our objective was to make it possible to replace the individual drawers during full operation without interrupting the SW-DT string and without the need to reconfigure the replaced SW-DT components.

Additional equipment especially required for MCC:

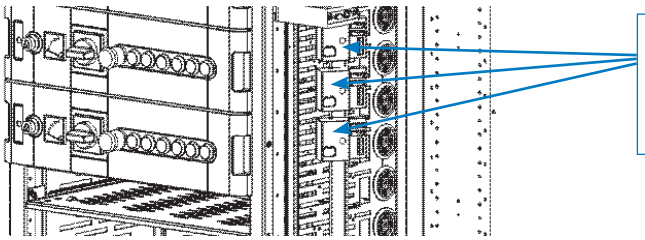
Line adapter SWD4-FFR-ST1-1 **and** **Supply module SWD-FFR-PF1-1**



VT03212

Explanation of the supply module

You need to plan one supply module supplied with 24 VDC (back-up fuse max. 40 A) for each drawer. It is only thanks to this module that the pulling and pushing of the drawers is possible without any effect. Supply modules are fixed at the DIN rail (see drawing) in the cable connection area, at the level of the drawers.



Smart_Wire_1

Explanation of the line adapter

You will need a line adapter for each drawer. This adapter will be connected with the supply module via the auxiliary current contacts using conventional wiring. In the drawer as such all participants are connected through the SW-DT flat cable, the beginning and the end of the flat cable must be connected with the line adapter. There is also a 24 VDC / max 2 A voltage tap available, which can be used to supply more consumers. The line adapter also offers the possibility to interrupt the activation of contactors by using a release terminal. This is necessary if you wish to include an emergency stop button or a safety chain, for example.

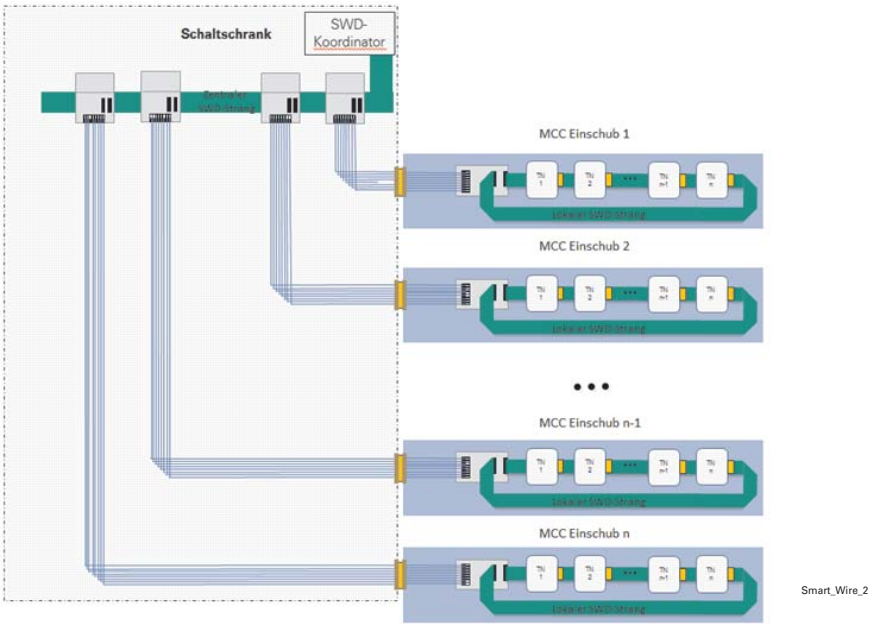
Connection between supply module (SWD-FFR-PF1-1) and line adapter (SWD4-FFR-ST1-1)

The connection between these two additional devices is established by means of conventional wiring. There is no SW-DT flat cable necessary. Each device is equipped with 8 spring-type terminals which need to be connected through auxiliary current terminals (with the same numbers).

SWD Gateway

PROFIBUS DP, CANopen, Ethernet IP and Modbus TCP-Gateways ensure the data exchange with the higher level of the control system. They provide the most important field bus connections for the most common control functions. The Gateway is positioned in the cable connection area, but it can variably be adjusted or placed there depending on the space available.

SWD Gateway



Smart_Wire_2

Mechanical Setup of MCC with SmarWire-DT®

Cabinet:

Generally there is no difference between sections with a SW-DT setup and normally wired MCC sections. In the cable connection area, the SWD4-FFR-PF1-1 supply module can be snapped onto the DIN rail which is also required for conventional wiring of control functions. The Gateway is usually mounted at the vertical DIN rail, at the top or at the bottom of the cable connection area (depending on the cable routing).

Drawer:

Generally you can use standard drawers. There are expansion sets available to make them Smart Wire compatible. These expansion sets exist in all drawer sizes and are compulsory if SmartWire needs to be used in the drawers. The line adapter will be snapped onto a DIN rail included in the expansion set.

For more information on Installation and Mounting Instructions, please visit:
www.xEnergy-partner.com

Soft Starter in xEnergy Main MCC and iMCC

For the power range from 1.1 to 15kW (3-32A) you can use soft starter solutions in XW drawer sections. The Soft Starter series DS7 sizes 1+2 are incorporated in XW drawers and tested to IEC 61439.

Technical Details

Versions	DOL, FR (direct starter, reverse starter)
Rated short-time withstand current	50 kA, 80 kA
Drawer heights	75, 150, 225 mm
Versions/finishes	
Standard	without SW-DT for normal MCC application
Basic	with SW-DT, but without reading of the circuit breaker (iMCC application)
Complete	with SW-DT and reading of the circuit breaker - electronic tripping (iMCC application)
Degree of protection	IP31, IP55
Power	1.5 -15 kW
Assignment type	Type 2
Ambient temperature	35 °C

Setup/Installation

The soft starter can be installed in standard drawers where additional expansion sets can be fixed to establish the pre-requisites for soft starters. These retro-fitting sets include a DIN rail (L = depending on the drawer height) and screws. Installation must be done according to our installation guideline (IL – XMW..06SS-161/162/163).

Electric components

Configuration of the electric components has to be done according to the XW_DS7_Drawer_Outgoing_Unit_List. This list details all the electric components necessary for the different variants of drawers.

You can find the complete documentation on our xEnergy Main homepage at www.xEnergy-Partner.com

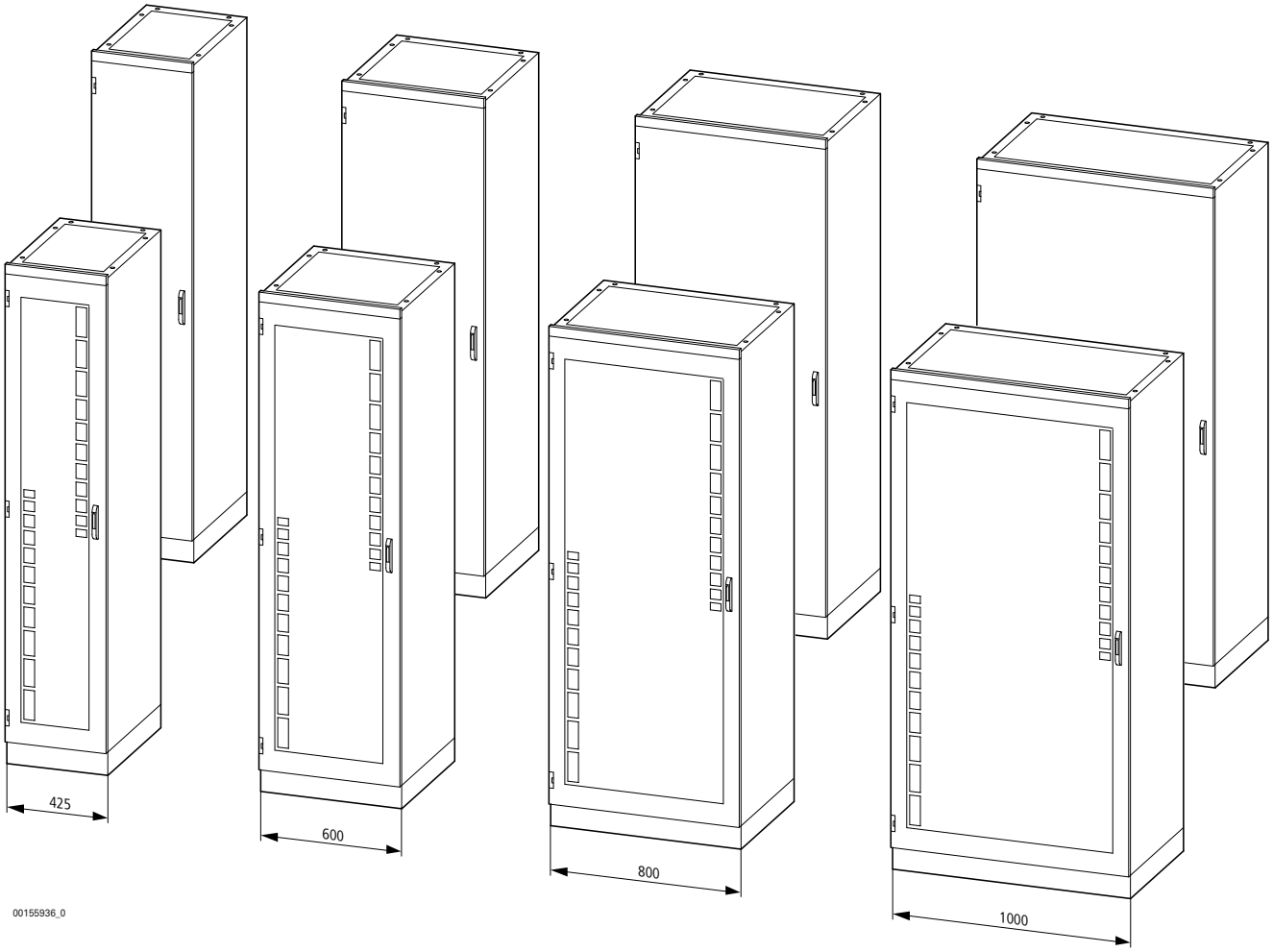
Different finishes of drawers:
There are 3 different versions of drawer finishes with soft starter.

Standard: In the standard version the soft starter and all electric components are wired and controlled in the conventional way.

Basic: In the Basic version, the control wiring is carried out using a SmartWire-DT. There is no conventional control wiring. The circuit breaker includes a thermomagnetic tripping unit, therefore it is not possible to make a query of the current parameters via SW-DT.

Complete: In the Complete version, a SmartWire-DT is used for control wiring. There is no conventional control wiring. As there is an electronic tripping unit incorporated in the circuit breaker, it is possible to make a query and read the status of each individual parameter at any time via the SW-DT.

XG Empty sections for universal application

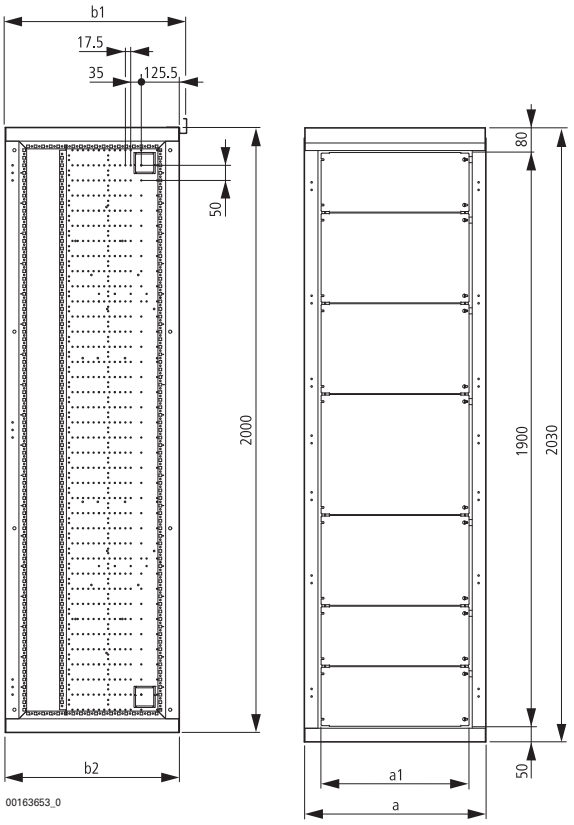


Universal empty sections for the following installation possibilities:		
Installation distribution systems	e.g. with Eaton IVS	Product range catalogue IVS SK0207-1185 Power distribution systems or Electronic Catalogue
Switchgear adapter	e.g. with Eaton xStart	Main catalogue HPL0211, Industrial switchgear or Electronic Catalogue
Frequency converter	e.g. Eaton DF51, DF6, DV51, DV6 and DV5/6	Main catalogue HPL0211, Automation systems and Drives or Electronic Catalogue
Soft starters	e.g. Eaton DS4, DM4 and DS6	Main catalogue HPL0211, Automation systems and Drives or Electronic Catalogue
Automation systems	e.g. with Eaton PS4, PS416, XC100, XC200 ...	Main catalogue HPL0211, Automation systems and Drives or Electronic Catalogue
Large motor starters	e.g. with Eaton contactors up to 900 kW/400 V	Main catalogue HPL0211, Industrial switchgear or Electronic Catalogue
Power factor correction	e.g. with FRAKO, KBR	Chapter Power factor correction

With a front door as high as the cabinet, ventilated, closed or transparent, right or left-hinged

Dimensions

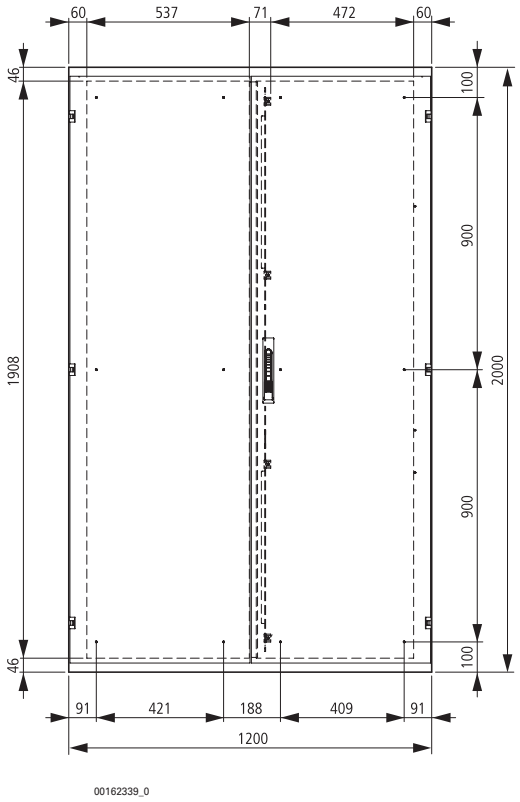
Empty XG section with fitting kit for depth-adjustable mounting plates
XSMIB20



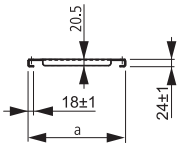
b1	b2
600	575
800	775

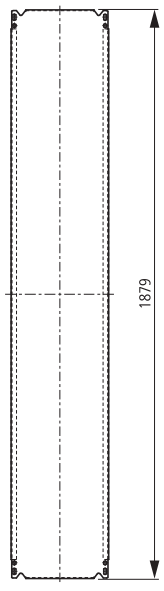
a	a1
425	314
600	489
800	689
1000	889

Section door 1200 mm wide
XSDMLV2012



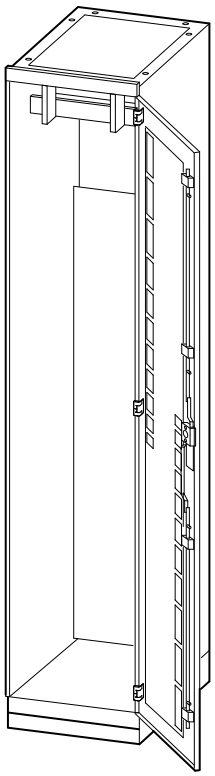
Fitting kit for mounting plates as high as the section
XSMMFB20...





a
322
497
697
897
1097

XG General Sections

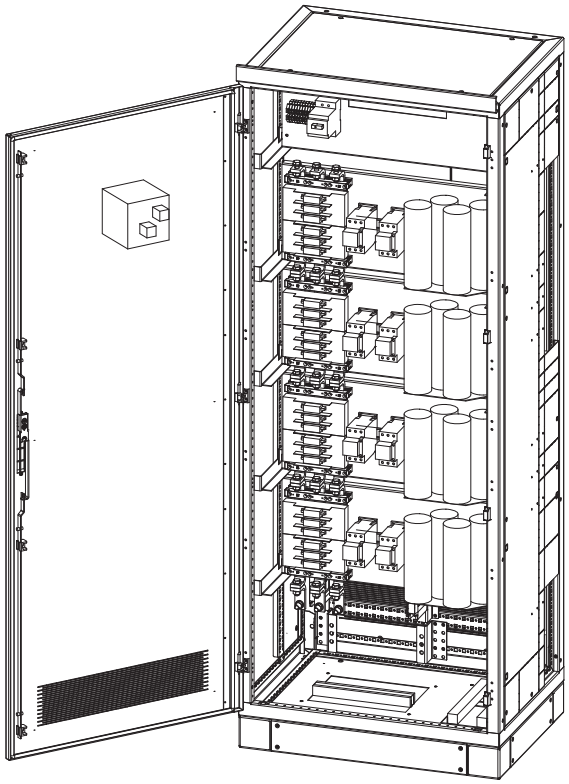


00163952_0

- in the widths of 425,600,800,850,1000,1100,1200 and 1350 mm
- IP31/55
- with the main busbar at the top or rear, or without any main busbar as a control distribution unit
- with mounting plate(s) in one piece or split
- as a compensation distribution unit
- suitable for integrating xBoard Profi+, Profi+ EP, SASY60i

Switchgear area:

· the switchgear area can be set up individually, according to customer specifications
· whether you use a control distribution board with a mounting plate or a mounting plate in combination with SASY60i as a power or motor-distribution board, or one of the different fitting systems such as xBoard Profi+, Profi+ EP - we have the right solution for every application



xE_Kompensation

XG for power factor correction units

Planning tools

The right tool for every stage of your project

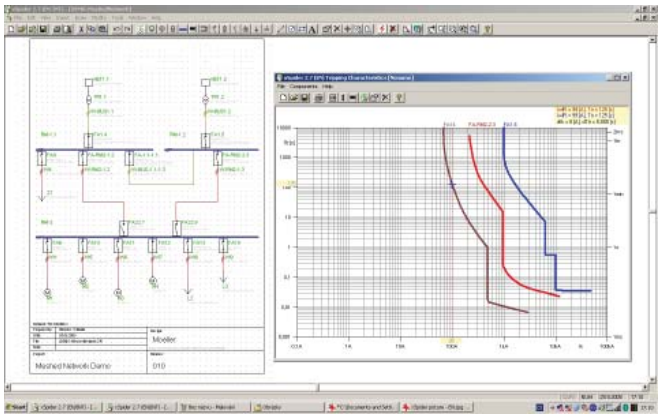
Eaton Engineering Tools support you in
- Network planning and calculation
- Preparing your offers
- Designing distribution systems
- Generating parts lists and ordering

Eaton xSpider

Proven functions for network planning and calculation
- Load flow and short-circuit calculation
- Dimensioning of the devices
- Selectivity calculation and graphic comparison
- Conformity to IEC 909 and IEC 60364 standards
- Automatic verification of data completeness

Expertise and experience
- xSpider simplifies and speeds up your job by relieving you from time-consuming routing tasks
- xSpider protects against planning errors in low-voltage networks

Functional and flexible
- easy generation of network drawings
- clearly structured database
- xSpider is the right tool for every stage of a project and for testing the existing networks

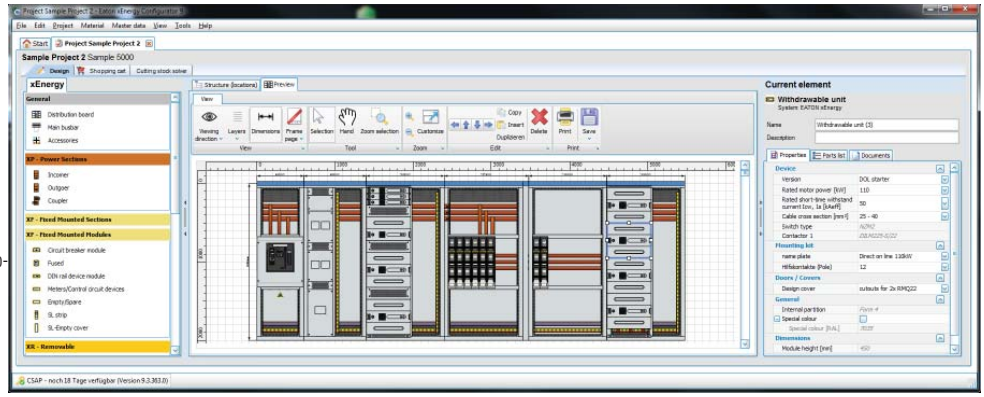


With xSpider you can plan low-voltage networks (meshed systems and radial networks) safely and without problems.

Eaton Configurator

User-friendly for the selection of xEnergy Mainn
- Windows-based dialogue guidance
- functional, self-explanatory design structure
- short familiarization time thanks to Look and Feel

Wide range of applications
- project administration and system structure
- a functions-guided system selection will automatically generate the suitable distributor
- generation of a parts list for devices, fitting kits and distributors
- generation of a front view for offers, individual adjustments through Drag and Drop



Eaton Configurator is the fastest selection tool for xEnergy Main.

CurveSelect

Characteristic curve program for short-circuit and overload protection tools
- Allows to display, compare and keep record of characteristic curves easily
- CurveSelect is available free of charge and allows the setting-specific display of tripping characteristics of several protective devices based on the same time and current standards. This makes it significantly easier to evaluate the interaction of NZM and IZM circuit breakers, PZK motor protectors and ZB motor protective relays, MCBs and HBC fuses.

Use this link to visit the corresponding site:
www.moeller.net/de/products_solutions/power_distribution/power_communication/curve_program/index.jsp



Power loss IZM

Calcuation of effective power loss

Note:
The installed losses per section are required only where the total power loss of the switchgear system needs to be determined, e.g. for the rating of air-conditioning or ventilation systems in switch rooms.

Effective power loss:

$$P = P_{w1} + P_{w2} + P_{w3} + P_{w...}$$

Power loss at rated current of the circuit:

$$P_e = P_n \times \left(\frac{I_e}{I}\right)^2$$

Effective power loss taking into account the rated load factor α:

$$P_{w1} = P_n \times \alpha^2$$

Characters used:

P	=	Total power loss
P_n	=	Power loss at rated current of the equipment
P_e	=	Power loss at rated current of the power circuits
$P_{w1...n}$	=	Effective power loss of the equipment group
I_n	=	Rated current of the equipment
I_e	=	Rated current of the power circuit
α	=	Rated diversity factor

Power loss IZMX16

I_n	Breaking capacity	Power loss at I_n **when fixed**	Power loss at I_n **when withdrawable**
A		W	W
630	B = Basic	36	50
800	B = Basic	59	80
1000	B = Basic	92	125
1200	B = Basic	132	180
1600	B = Basic	235	320
630	N = Normal	36	50
800	N = Normal	59	80
1000	N = Normal	92	125
1200	N = Normal	132	180
1600	N = Normal	235	320
630	H = High	36	50
800	H = High	59	80
1000	H = High	92	125
1200	H = High	132	180
1600	H = High	235	320

Power loss IZMX40

I_n	Breaking capacity	Power loss at I_n **when fixed**	Power loss at I_n **when withdrawable**
A		W	W
800	B = Basic	90	135
1000	B = Basic	135	120
1200	B = Basic	135	180
1600	B = Basic	225	300
2000	B = Basic	285	345
2500	B = Basic	300	450
3200	B = Basic	480	720
4000	B = Basic	750	1120
800	N = Normal	90	135
1000	N = Normal	90	120
1200	N = Normal	135	180
1600	N = Normal	225	300
2000	N = Normal	285	345
2500	N = Normal	300	450
3200	N = Normal	480	720
4000	N = Normal	750	1120
800	H = High	90	135
1000	H = High	90	120
1200	H = High	135	180
1600	H = High	225	300
2000	H = High	285	345
2500	H = High	300	450
3200	H = High	480	720
4000	H = High	750	1120

Power loss IZM20

I_n	Breaking capacity	Power loss at I_n **when fixed**	Power loss at I_n **when withdrawable**
A		W	W
800	B = Basic	60	110
1000	B = Basic	95	170
1250	B = Basic	150	260
1600	B = Basic	240	420
2000	B = Basic	280	560
800	N = Normal	45	90
1000	N = Normal	70	140
1250	N = Normal	110	220
1600	N = Normal	180	360
2000	N = Normal	280	560

Power loss IZM32

I_n	Breaking capacity	Power loss at I_n **when fixed**	Power loss at I_n **when withdrawable**
A		W	W
800	B = Basic	40	85
1000	B = Basic	60	130
1250	B = Basic	90	200
1600	B = Basic	150	330
2000	B = Basic	190	330
2500	B = Basic	200	500
3200	B = Basic	320	800
800	N = Normal	35	70
1000	N = Normal	50	95
1250	N = Normal	70	140
1600	N = Normal	120	240
2000	N = Normal	190	380
2500	N = Normal	200	500
3200	N = Normal	320	800
800	H = High	30	60
1000	H = High	50	95
1250	H = High	70	140
1600	H = High	120	240
2000	H = High	190	380
2500	H = High	200	500
3200	H = High	320	800

Power loss IZM40

I_n	Breaking capacity	Power loss at I_n **when fixed**	Power loss at I_n **when withdrawable**
A		W	W
4000	N = Normal	560	1100
4000	H = High	560	1100

Power loss IZM63

I_n	Breaking capacity	Power loss at I_n **when fixed**	Power loss at I_n **when withdrawable**
A		W	W
5000	N = Normal	400	1000
6000	N = Normal	620	1550
4000	H = High	380	750
5000	H = High	400	1000
6000	H = High	620	1550

Power loss IZM13

I_n	Power loss at I_n **when fixed**	Power loss at I_n **when withdrawable**
A	W	W
Incoming supply / outgoers / couplers 630 - 4000 A with IZM-Circuit breaker		
630	100	195
800	100	195
1000	100	195
1250	105	205
1600	170	350
2000	180	320
2500	270	520
3200	410	710
4000	520	810

Power loss NZM

NZM1-Circuit breakers

Rated current I_n	Power loss **when fixed**
A	W
20	9.8
25	8.8
32	9.3
40	10.7
50	13.2
63	14.2
80	16.3
100	21.9
125	26.7
160	36.1

With plug base NZM1

Rated current I_n	**P**	**R**
A	W	µΩ
125	14	300

NZM3-Circuit breakers

Rated current I_n	Power loss **when fixed**
A	W
250	68
320	79
500	93
630	119

With withdrawable system NZM3

Rated current I_n	**P**	**R**
A	W	µΩ
630	83	70

NZM4-Circuit breakers

Rated current I_n	Power loss **when fixed**
A	W
1600	284.2

With withdrawable system NZM4

Rated current I_n	**P**	**R**
A	W	µΩ
1600	77	10

NZM2-Circuit breakers

Rated current I_n	Power loss **when fixed**
A	W
1.2	-
1.6	-
2	-
2.4	-
3	-
5	-
8	-
12	-
15	-
18	-
20	5.1
25	8
26	-
30	-
32	9.6
33	-
35	-
40	13.4
45	-
50	17
60	-
63	20.2
70	-
80	20.5
90	-
100	25.7
110	-
125	27.6
150	-
160	38.4
175	-
200	48
225	-
250	58.1
300	83.7

With plug base NZM2

Rated current I_n	**P**	**R**
A	W	µΩ
250	19	100

Notes

The values listed in the table are valid for 3 and 4 pole devices with fixed installation under equal load.
With 4-pole devices the current in the N conductor is zero.
The total ohmic resistance is the value measured for a 3 or 4 pole circuit breaker.
The total power loss is the value measured at I_n 50/60 Hz for a 3 or 4 pole circuit breaker.
Power loss can be calculated using the formula: $P = 3 \times R \times I^2$

Power loss PIFT

Outgoers with PIFT switch fuse units with h.b.c. fuses up to 630 A	
Size NH / Rated current I_n	**Double break feature**
A	W
00/160	72,9
1/250	114
2/400	195
3/630	380

Power loss SL

Outgoers with SL fuse switch disconnectors with h.b.c. fuses up to 630 A	
Size NH / Rated current I_n	**Power loss**
A	W
00/160	54
1/250	119
2/400	184
3/630	254

Power loss Motor starters

Motor starters	
Motor rating at AC-3/400 V	**Power loss**
kW	W
11	10
18.5	20
30	20
45	40
75	60
110	70
160	80
200	130

Power loss Power factor correction

Power factor correction	
	Power loss
	W
choked	8/kvar
non-choked	2/kvar

Power Loss P_v of the Different Drawer Modules for Withdrawable Design in IP31

IP55 on request.

The power loss specified includes all switchgear at the max. development stage.

Power outgoers	Power loss P_v W
FE3P 100A 50kA	40.0
FE3P 100A 80kA	40.0
FE3P 125A 50kA	54.3
FE3P 125A 80kA	54.3
FE3P 160A 50kA	76.8
FE3P 160A 80kA	76.8
FE3P 16A 50kA	9.3
FE3P 16A 80kA	3.3
FE3P 200A 50kA	106.9
FE3P 200A 80kA	106.9
FE3P 20A 50kA	14.8
FE3P 20A 80kA	14.8
FE3P 250A 50kA	137.9
FE3P 250A 80kA	137.9
FE3P 25A 50kA	10.3
FE3P 25A 50kA	10.3
FE3P 25A 80kA	5.9
FE3P 25A 80kA	5.9
FE3P 300A 50kA	198.6
FE3P 300A 80kA	198.6
FE3P 32A 50kA	13.5
FE3P 32A 50kA	13.5
FE3P 32A 80kA	9.6
FE3P 32A 80kA	9.6
FE3P 400A 50kA	229.7
FE3P 400A 80kA	229.7
FE3P 40A 50kA	17.8
FE3P 40A 80kA	17.8
FE3P 50A 50kA	21.9
FE3P 50A 80kA	21.9
FE3P 630A 50kA	450.2
FE3P 630A 80kA	450.2
FE3P 63A 50kA	27.4
FE3P 63A 80kA	27.4
FE3P 80A 50kA	28.1
FE3P 80A 80kA	28.1
FE4P 100A 50kA	40.0
FE4P 100A 80kA	40.0
FE4P 125A 50kA	54.3
FE4P 125A 80kA	54.3
FE4P 160A 50kA	76.8
FE4P 160A 80kA	76.8
FE4P 200A 50kA	106.9
FE4P 200A 80kA	106.9
FE4P 20A 50kA	14.8
FE4P 20A 80kA	14.8
FE4P 250A 50kA	137.9
FE4P 250A 80kA	137.9
FE4P 25A 50kA	13.7
FE4P 25A 80kA	13.7
FE4P 300A 50kA	198.6
FE4P 300A 80kA	198.6
FE4P 32A 50kA	16.9
FE4P 32A 80kA	16.9
FE4P 400A 50kA	229.7
FE4P 400A 80kA	229.7
FE4P 40A 50kA	17.8
FE4P 40A 80kA	17.8
FE4P 50A 50kA	21.9
FE4P 50A 80kA	21.9
FE4P 630A 50kA	450.2
FE4P 630A 80kA	450.2
FE4P 63A 50kA	27.4
FE4P 63A 80kA	27.4
FE4P 80A 50kA	28.1
FE4P 80A 80kA	28.1

Power outgoers with contactors	Power loss P_v W
FC3P 100A 50kA	52.0
FC3P 100A 80kA	52.0
FC3P 125A 50kA	62.5
FC3P 125A 80kA	62.5
FC3P 160A 50kA	91.4
FC3P 160A 80kA	91.4
FC3P 200A 50kA	124.3
FC3P 200A 80kA	124.3
FC3P 20A 50kA	16.4
FC3P 20A 80kA	16.4
FC3P 250A 50kA	169.2
FC3P 250A 80kA	169.2
FC3P 25A 50kA	18.6
FC3P 25A 80kA	18.6
FC3P 300A 50kA	220.9
FC3P 300A 80kA	220.9
FC3P 32A 50kA	21.5
FC3P 32A 80kA	21.5
FC3P 400A 50kA	235.8
FC3P 400A 80kA	235.8
FC3P 40A 50kA	28.8
FC3P 40A 80kA	28.8
FC3P 50A 50kA	34.2
FC3P 50A 80kA	34.2
FC3P 630A 50kA	537.2
FC3P 630A 80kA	537.2
FC3P 63A 50kA	42.8
FC3P 63A 80kA	42.8
FC3P 80A 50kA	60.3
FC3P 80A 80kA	60.3
FC4P 100A 50kA	52.0
FC4P 100A 80kA	52.0
FC4P 125A 50kA	62.5
FC4P 125A 80kA	62.5
FC4P 160A 50kA	91.4
FC4P 160A 80kA	91.4
FC4P 200A 50kA	124.3
FC4P 200A 80kA	124.3
FC4P 20A 50kA	16.4
FC4P 20A 80kA	16.4
FC4P 250A 50kA	169.2
FC4P 250A 80kA	169.2
FC4P 25A 50kA	18.6
FC4P 25A 80kA	18.6
FC4P 300A 50kA	220.9
FC4P 300A 80kA	220.9
FC4P 32A 50kA	21.5
FC4P 32A 80kA	21.5
FC4P 400A 50kA	235.8
FC4P 400A 80kA	235.8
FC4P 40A 50kA	28.8
FC4P 40A 80kA	28.8
FC4P 50A 50kA	34.2
FC4P 50A 80kA	34.2
FC4P 630A 50kA	537.2
FC4P 630A 80kA	537.2
FC4P 63A 50kA	42.8
FC4P 63A 80kA	42.8
FC4P 80A 50kA	60.3
FC4P 80A 80kA	60.3

Direct starters	Power loss P_v W
DOL 0.06kW 80kA	4.6
DOL 0,09kW 80kA	4.3
DOL 0,12kW 80kA	3.8
DOL 0,18kW 80kA	6.0
DOL 0,25kW 80kA	5.1
DOL 0,37kW 80kA	4.3
DOL 0,55kW 80kA	6.7
DOL 0,75kW 80kA	4.4
DOL 1,1kW 80kA	3.6
DOL 1,5kW 80kA	5.8
DOL 110kW 50kA	108.6
DOL 110kW 80kA	108.6
DOL 11kW 50kA	10.9
DOL 11kW 80kA	8.3
DOL 132kW 50kA	113.0
DOL 132kW 80kA	113.0
DOL 15kW 50kA	15.8
DOL 15kW 80kA	13.2
DOL 160kW 50kA	122.8
DOL 160kW 80kA	122.8
DOL 18,5kW 50kA	30.2
DOL 18,5kW 80kA	21.7
DOL 2,2kW 80kA	5.3
DOL 200kW 50kA	174.7
DOL 200kW 80kA	174.7
DOL 22kW 50kA	30.1
DOL 22kW 80kA	23.6
DOL 250kW 50kA	263.6
DOL 250kW 80kA	263.6
DOL 30kW 50kA	25.1
DOL 30kW 80kA	33.2
DOL 37kW 50kA	29.6
DOL 37kW 80kA	32.4
DOL 3kW 50kA	5.6
DOL 3kW 80kA	4.0
DOL 45kW 50kA	38.5
DOL 45kW 80kA	38.5
DOL 4kW 50kA	7.5
DOL 4kW 80kA	5.0
DOL 5.5kW 50kA	9.9
DOL 5.5kW 80kA	7.3
DOL 55kW 50kA	38.5
DOL 55kW 80kA	38.5
DOL 7,5kW 50kA	9.6
DOL 7,5kW 80kA	7.7
DOL 75kW 50kA	66.6
DOL 75kW 80kA	66.6
DOL 90kW 50kA	78.7
DOL 90kW 80kA	78.7

Power Loss P_v of the Different Drawer Modules for Withdrawable Design in IP31

IP55 on request.

The power loss specified includes all switchgear at the max. development stage.

Reverse starters	Power loss P_v W
FR 0.06kW 80kA	6.3
FR 0,09kW 80kA	5.9
FR 0,12kW 80kA	5.2
FR 0,18kW 80kA	8.1
FR 0,25kW 80kA	6.9
FR 0,37kW 80kA	5.9
FR 0,55kW 80kA	9.1
FR 0,75kW 80kA	5.9
FR 1,1kW 80kA	4.8
FR 1,5kW 80kA	7.8
FR 110kW 50kA	146.7
FR 110kW 80kA	146.7
FR 11kW 50kA	14.8
FR 11kW 80kA	11.2
FR 132kW 50kA	152.7
FR 132kW 80kA	152.7
FR 15kW 50kA	21.3
FR 15kW 80kA	17.8
FR 160kW 50kA	166.0
FR 160kW 80kA	166.0
FR 18,5kW 50kA	40.8
FR 18,5kW 80kA	29.3
FR 2,2kW 80kA	7.2
FR 200kW 50kA	236.0
FR 200kW 80kA	236.0
FR 22kW 50kA	40.6
FR 22kW 80kA	31.9
FR 250kW 50kA	356.0
FR 250kW 80kA	356.0
FR 30kW 50kA	33.9
FR 30kW 80kA	44.9
FR 37kW 50kA	39.9
FR 37kW 80kA	43.7
FR 3kW 50kA	7.6
FR 3kW 80kA	5.4
FR 45kW 50kA	52.0
FR 45kW 80kA	52.0
FR 4kW 50kA	10.1
FR 4kW 80kA	6.7
FR 5.5kW 50kA	13.4
FR 5.5kW 80kA	9.8
FR 55kW 50kA	51.9
FR 55kW 80kA	51.9
FR 7,5kW 50kA	13.0
FR 7,5kW 80kA	10.4
FR 75kW 50kA	89.9
FR 75kW 80kA	89.9
FR 90kW 50kA	105.1
FR 90kW 80kA	105.1

Star/Delta	Power loss P_v W
SD 110kW 50kA	-
SD 110kW 80kA	-
SD 11kW 50kA	-
SD 11kW 80kA	-
SD 132kW 50kA	-
SD 132kW 80kA	-
SD 15kW 50kA	-
SD 15kW 80kA	-
SD 160kW 50kA	-
SD 160kW 80kA	-
SD 18,5kW 50kA	-
SD 18,5kW 80kA	-
SD 200kW 50kA	-
SD 200kW 80kA	-
SD 22kW 50kA	-
SD 22kW 80kA	-
SD 250kW 50kA	-
SD 250kW 80kA	-
SD 30kW 50kA	-
SD 30kW 80kA	-
SD 37kW 50kA	-
SD 37kW 80kA	-
SD 45kW 50kA	-
SD 45kW 80kA	-
SD 5.5kW 50kA	-
SD 55kW 50kA	-
SD 55kW 80kA	-
SD 7,5kW 50kA	-
SD 7,5kW 80kA	-
SD 75kW 50kA	-
SD 75kW 80kA	-
SD 90kW 50kA	-
SD 90kW 80kA	-

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 25 °C

IP55 degree of protection — Max. power loss P_v in Watt

Dimensions in mm			For wall-mounting			Stand-alone		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	195	167	147	238	193	164
300	400	2000	281	230	186	302	269	212
300	600	2000	438	356	302	486	384	316
300	800	2000	550	511	384	559	506	407
300	1000	2000	668	587	504	682	591	547
425	300	2000	285	250	212	319	293	270
425	400	2000	360	321	277	413	359	317
425	500	2000	458	386	335	488	438	367
425	600	2000	524	468	384	541	505	427
425	800	2000	636	579	513	661	592	537
425	1000	2000	773	686	610	773	705	614
600	300	2000	389	356	331	486	432	389
600	400	2000	511	441	391	524	502	469
600	500	2000	558	559	465	591	557	528
600	600	2000	620	582	553	660	610	568
600	800	2000	787	707	648	794	748	669
600	1000	2000	887	845	751	901	847	781
650	300	2000	426	388	359	487	488	435
650	400	2000	518	489	429	552	529	508
650	600	2000	651	610	578	702	646	600
800	300	2000	513	511	463	559	542	528
800	400	2000	581	561	571	637	607	581
800	500	2000	664	631	605	735	686	644
800	600	2000	760	707	666	794	774	712
800	800	2000	888	858	792	915	873	837
800	1000	2000	1007	954	915	1042	973	916
850	300	2000	534	524	510	588	570	553
850	400	2000	607	586	571	673	640	611
850	600	2000	800	742	698	821	797	754
850	800	2000	913	882	832	946	902	863
850	1000	2000	1037	981	940	1079	1006	945
1000	300	2000	600	587	579	682	659	637
1000	400	2000	691	664	645	756	752	714
1000	500	2000	805	758	722	831	812	805
1000	600	2000	861	845	800	901	873	848
1000	800	2000	990	954	928	1042	989	944
1000	1000	2000	1130	1065	1018	1197	1110	1038
1100	300	2000	642	627	617	721	721	695
1100	400	2000	753	722	699	799	787	777
1100	600	2000	905	887	876	956	925	898
1100	800	2000	1043	1003	975	1110	1052	1001
1100	1000	2000	1196	1124	1071	1284	1186	1104
1200	300	2000	697	680	668	763	756	751
1200	400	2000	801	792	765	851	837	825
1200	500	2000	877	866	862	934	911	891
1200	600	2000	950	930	919	1015	980	950
1200	800	2000	1099	1054	1023	1184	1118	1062
1200	1000	2000	1266	1187	1127	1380	1268	1176
1350	300	2000	769	768	753	826	819	813
1350	400	2000	859	855	856	926	910	896
1350	600	2000	1020	997	983	1109	1069	1033
1350	800	2000	1187	1136	1099	1306	1228	1161
1350	1000	2000	1382	1288	1218	1543	1407	1296
425	800	2200	681	607	552	705	628	559
600	800	2200	793	742	666	809	768	699
650	800	2200	820	786	703	841	797	746
800	800	2200	913	875	837	951	898	853
850	800	2200	942	902	872	986	931	883
1000	800	2200	1032	984	949	1100	1034	977
1100	800	2200	1094	1041	1003	1183	1108	1043
1200	800	2200	1160	1101	1058	1274	1188	1115
1350	800	2200	1267	1197	1146	1428	1322	1234
425	800	2400	713	634	567	720	664	580
600	800	2400	810	772	693	832	783	739
650	800	2400	841	800	736	868	816	771
800	800	2400	941	893	856	990	926	871
850	800	2400	974	923	885	1032	963	905
1000	800	2400	1078	1017	972	1167	1083	1012
1100	800	2400	1151	1083	1032	1268	1171	1090
1200	800	2400	1229	1153	1096	1379	1267	1174
1350	800	2400	1358	1266	1198	1574	1432	1317

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 25 °C

IP31 degree of protection			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	352	301	265	429	347	296
300	400	2000	505	414	335	543	484	381
300	600	2000	788	642	544	875	690	569
300	800	2000	991	920	691	1006	911	733
300	1000	2000	1203	1057	908	1228	1063	984
425	300	2000	513	450	381	575	527	486
425	400	2000	649	578	499	743	645	571
425	500	2000	825	694	603	879	788	661
425	600	2000	944	842	692	974	908	768
425	800	2000	1145	1042	923	1190	1066	967
425	1000	2000	1391	1234	1099	1392	1270	1106
600	300	2000	700	642	596	875	777	700
600	400	2000	921	794	704	943	904	843
600	500	2000	1004	1007	838	1064	1003	951
600	600	2000	1116	1047	996	1189	1099	1023
600	800	2000	1416	1273	1166	1430	1347	1205
600	1000	2000	1597	1520	1351	1621	1524	1405
800	300	2000	847	843	764	922	895	870
800	400	2000	958	926	942	1051	1002	958
800	500	2000	1096	1040	998	1213	1132	1063
800	600	2000	1254	1166	1100	1311	1277	1175
800	800	2000	1465	1416	1306	1510	1441	1381
800	1000	2000	1661	1574	1510	1719	1606	1511
850	300	2000	882	865	841	970	940	913
850	400	2000	1001	967	942	1111	1057	1009
850	600	2000	1320	1224	1151	1354	1315	1244
850	800	2000	1507	1455	1372	1561	1488	1424
850	1000	2000	1710	1619	1551	1780	1660	1559
1000	300	2000	942	922	909	1071	1034	1001
1000	400	2000	1085	1043	1012	1187	1181	1121
1000	500	2000	1264	1190	1134	1304	1275	1264
1000	600	2000	1352	1326	1255	1414	1370	1332
1000	800	2000	1555	1498	1458	1635	1553	1482
1000	1000	2000	1774	1673	1598	1879	1743	1629
1100	300	2000	1007	984	969	1133	1132	1092
1100	400	2000	1183	1134	1097	1255	1236	1219
1100	600	2000	1421	1392	1376	1502	1453	1410
1100	800	2000	1638	1575	1531	1743	1651	1572
1100	1000	2000	1878	1765	1682	2016	1862	1734
1200	300	2000	1046	1019	1002	1144	1134	1127
1200	400	2000	1202	1188	1147	1276	1256	1238
1200	500	2000	1316	1300	1293	1401	1367	1336
1200	600	2000	1425	1395	1378	1522	1470	1425
1200	800	2000	1648	1582	1535	1776	1677	1593
1200	1000	2000	1900	1780	1691	2069	1902	1764
1350	300	2000	1153	1152	1129	1240	1229	1219
1350	400	2000	1289	1282	1285	1390	1366	1345
1350	600	2000	1530	1495	1475	1664	1603	1549
1350	800	2000	1781	1704	1648	1960	1842	1741
1350	1000	2000	2073	1932	1827	2315	2111	1944
425	800	2200	1226	1093	994	1269	1130	1006
600	800	2200	1427	1336	1199	1456	1382	1258
650	800	2200	1476	1415	1265	1514	1435	1343
800	800	2200	1506	1444	1381	1569	1482	1407
850	800	2200	1554	1488	1439	1627	1536	1457
1000	800	2200	1620	1545	1490	1727	1623	1534
1100	800	2200	1718	1634	1575	1857	1740	1638
1200	800	2200	1740	1652	1587	1911	1782	1673
1350	800	2200	1901	1796	1719	2142	1983	1851
425	800	2400	1283	1141	1021	1296	1195	1044
600	800	2400	1458	1390	1247	1498	1409	1330
650	800	2400	1514	1440	1325	1562	1469	1388
800	800	2400	1553	1473	1412	1634	1528	1437
850	800	2400	1607	1523	1460	1703	1589	1493
1000	800	2400	1692	1597	1526	1832	1700	1589
1100	800	2400	1807	1700	1620	1991	1838	1711
1200	800	2400	1844	1730	1644	2069	1901	1761
1350	800	2400	2037	1899	1797	2361	2148	1976

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 25 °C

IP42 degree of protection — Max. power loss P_v in Watt

Dimensions in mm			For wall-mounting			Stand-alone		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	283	243	213	345	280	238
300	400	2000	407	334	270	437	390	307
300	600	2000	635	517	438	705	556	458
300	800	2000	798	741	557	811	734	591
300	1000	2000	969	851	731	990	857	793
425	300	2000	413	362	307	463	424	392
425	400	2000	523	466	402	598	520	460
425	500	2000	665	559	486	708	635	533
425	600	2000	760	679	557	784	732	619
425	800	2000	923	839	744	959	859	779
425	1000	2000	1120	994	885	1121	1023	891
600	300	2000	564	517	480	705	626	564
600	400	2000	742	640	567	760	729	679
600	500	2000	809	811	675	857	808	766
600	600	2000	899	843	802	958	885	824
600	800	2000	1141	1025	939	1152	1085	970
600	1000	2000	1287	1225	1089	1306	1228	1132
800	300	2000	719	716	648	783	759	739
800	400	2000	813	786	800	892	850	813
800	500	2000	930	883	847	1029	960	902
800	600	2000	1064	990	933	1112	1084	997
800	800	2000	1243	1201	1108	1281	1223	1171
800	1000	2000	1409	1336	1281	1458	1363	1282
850	300	2000	748	734	714	823	797	775
850	400	2000	850	820	799	943	896	856
850	600	2000	1120	1038	977	1149	1115	1056
850	800	2000	1279	1235	1165	1324	1262	1208
850	1000	2000	1451	1374	1316	1510	1409	1323
1000	300	2000	780	763	753	887	856	829
1000	400	2000	898	864	838	983	978	928
1000	500	2000	1046	985	939	1080	1055	1046
1000	600	2000	1119	1098	1039	1171	1135	1103
1000	800	2000	1287	1240	1207	1354	1286	1227
1000	1000	2000	1469	1385	1323	1556	1443	1349
1100	300	2000	834	815	802	938	937	904
1100	400	2000	979	939	909	1039	1023	1010
1100	600	2000	1176	1153	1139	1243	1203	1167
1100	800	2000	1356	1304	1268	1443	1367	1302
1100	1000	2000	1555	1462	1393	1669	1542	1436
1200	300	2000	906	883	868	991	983	977
1200	400	2000	1042	1030	994	1106	1089	1073
1200	500	2000	1140	1126	1120	1214	1184	1158
1200	600	2000	1235	1209	1194	1319	1274	1235
1200	800	2000	1428	1371	1330	1539	1454	1380
1200	1000	2000	1646	1543	1466	1793	1649	1529
1350	300	2000	999	999	978	1074	1065	1057
1350	400	2000	1117	1111	1113	1204	1184	1165
1350	600	2000	1326	1296	1278	1442	1389	1343
1350	800	2000	1543	1477	1429	1698	1596	1509
1350	1000	2000	1797	1674	1584	2006	1829	1685
425	800	2200	987	880	800	1022	911	811
600	800	2200	1150	1076	966	1173	1114	1014
650	800	2200	1189	1140	1019	1219	1156	1082
800	800	2200	1278	1225	1172	1331	1257	1194
850	800	2200	1319	1263	1221	1380	1303	1236
1000	800	2200	1342	1279	1234	1430	1344	1270
1100	800	2200	1422	1353	1304	1538	1440	1356
1200	800	2200	1508	1431	1375	1656	1544	1450
1350	800	2200	1647	1556	1490	1856	1719	1604
425	800	2400	1034	919	822	1044	963	841
600	800	2400	1175	1119	1005	1206	1135	1072
650	800	2400	1219	1160	1067	1259	1183	1118
800	800	2400	1317	1250	1198	1386	1296	1219
850	800	2400	1364	1292	1239	1445	1348	1267
1000	800	2400	1401	1322	1264	1517	1408	1316
1100	800	2400	1496	1408	1342	1648	1522	1417
1200	800	2400	1598	1499	1425	1793	1647	1526
1350	800	2400	1765	1646	1557	2046	1862	1712

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 25 °C

IP31 degree of prot. - closed			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	273	234	206	334	270	230
300	400	2000	393	322	261	422	376	297
300	600	2000	613	499	423	680	537	442
300	800	2000	770	716	538	783	708	570
300	1000	2000	936	822	706	955	827	765
425	300	2000	399	350	296	447	410	378
425	400	2000	504	450	388	578	502	444
425	500	2000	642	540	469	684	613	514
425	600	2000	734	655	538	757	706	598
425	800	2000	891	810	718	925	829	752
425	1000	2000	1082	960	855	1083	988	860
600	300	2000	545	499	464	680	605	545
600	400	2000	716	618	547	733	703	656
600	500	2000	781	783	652	828	780	739
600	600	2000	868	814	774	925	855	796
600	800	2000	1101	990	907	1112	1048	937
600	1000	2000	1242	1182	1051	1261	1185	1093
800	300	2000	693	690	625	755	732	712
800	400	2000	784	758	771	860	820	784
800	500	2000	897	851	817	992	926	870
800	600	2000	1026	954	900	1072	1045	961
800	800	2000	1199	1158	1069	1235	1179	1130
800	1000	2000	1359	1288	1235	1406	1314	1236
850	300	2000	721	708	688	794	769	747
850	400	2000	819	791	770	909	864	826
850	600	2000	1080	1001	942	1108	1076	1018
850	800	2000	1233	1191	1123	1277	1217	1165
850	1000	2000	1399	1325	1269	1456	1358	1276
1000	300	2000	750	734	724	853	823	797
1000	400	2000	864	830	806	945	940	892
1000	500	2000	1006	947	903	1038	1015	1006
1000	600	2000	1076	1056	999	1126	1091	1060
1000	800	2000	1238	1192	1161	1302	1237	1180
1000	1000	2000	1412	1332	1272	1496	1388	1297
1100	300	2000	802	784	772	902	901	869
1100	400	2000	942	903	874	999	984	971
1100	600	2000	1131	1109	1096	1196	1157	1123
1100	800	2000	1304	1254	1219	1388	1315	1252
1100	1000	2000	1495	1405	1339	1605	1482	1380
1200	300	2000	871	849	835	953	945	939
1200	400	2000	1002	990	956	1064	1047	1032
1200	500	2000	1097	1083	1077	1168	1139	1113
1200	600	2000	1187	1163	1148	1269	1225	1187
1200	800	2000	1373	1318	1279	1480	1398	1327
1200	1000	2000	1583	1483	1409	1724	1585	1470
1350	300	2000	961	960	941	1033	1024	1016
1350	400	2000	1074	1068	1070	1158	1138	1121
1350	600	2000	1275	1246	1229	1387	1336	1291
1350	800	2000	1484	1420	1374	1633	1535	1451
1350	1000	2000	1727	1610	1523	1929	1759	1620
425	800	2200	953	850	773	987	879	783
600	800	2200	1110	1039	932	1133	1075	979
650	800	2200	1148	1100	984	1177	1116	1044
800	800	2200	1278	1225	1172	1331	1257	1194
850	800	2200	1319	1263	1221	1380	1303	1236
1000	800	2200	1445	1378	1329	1540	1448	1368
1100	800	2200	1532	1457	1404	1656	1551	1460
1200	800	2200	1624	1541	1481	1784	1663	1561
1350	800	2200	1774	1676	1604	1999	1851	1728
425	800	2400	998	888	794	1008	930	812
600	800	2400	1134	1081	970	1165	1096	1035
650	800	2400	1177	1120	1030	1215	1142	1079
800	800	2400	1317	1250	1198	1386	1296	1219
850	800	2400	1364	1292	1239	1445	1348	1267
1000	800	2400	1509	1424	1361	1634	1516	1417
1100	800	2400	1611	1516	1445	1775	1639	1526
1200	800	2400	1721	1614	1534	1931	1774	1644
1350	800	2400	1901	1772	1677	2204	2005	1844

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 25 °C

IP42 degree of prot. - closed			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	264	226	199	322	260	222
300	400	2000	379	311	251	407	363	286
300	600	2000	591	481	408	656	518	427
300	800	2000	743	690	519	755	683	550
300	1000	2000	902	793	681	921	798	738
425	300	2000	385	337	286	431	395	365
425	400	2000	486	434	375	557	484	428
425	500	2000	619	520	452	659	591	496
425	600	2000	708	632	519	730	681	576
425	800	2000	859	781	692	892	800	725
425	1000	2000	1043	926	824	1044	952	829
600	300	2000	525	481	447	656	583	525
600	400	2000	691	596	528	707	678	633
600	500	2000	753	755	628	798	753	713
600	600	2000	837	785	747	892	824	767
600	800	2000	1062	954	874	1072	1010	904
600	1000	2000	1198	1140	1013	1216	1143	1054
800	300	2000	667	664	602	727	705	686
800	400	2000	755	730	743	828	789	755
800	500	2000	864	820	787	955	892	837
800	600	2000	988	919	866	1033	1006	926
800	800	2000	1154	1115	1029	1190	1135	1088
800	1000	2000	1308	1240	1190	1354	1265	1190
850	300	2000	695	682	663	764	740	719
850	400	2000	789	762	742	875	832	795
850	600	2000	1040	964	907	1067	1036	980
850	800	2000	1187	1146	1081	1230	1172	1122
850	1000	2000	1348	1276	1222	1402	1308	1229
1000	300	2000	720	704	695	819	790	765
1000	400	2000	829	797	774	907	903	857
1000	500	2000	966	909	867	997	974	966
1000	600	2000	1033	1013	959	1081	1047	1018
1000	800	2000	1188	1145	1114	1250	1187	1133
1000	1000	2000	1356	1278	1221	1436	1332	1245
1100	300	2000	770	752	741	866	865	835
1100	400	2000	904	866	839	959	945	932
1100	600	2000	1086	1064	1052	1148	1110	1078
1100	800	2000	1252	1204	1170	1332	1262	1202
1100	1000	2000	1435	1349	1285	1541	1423	1325
1200	300	2000	836	815	802	915	908	901
1200	400	2000	962	951	917	1021	1005	991
1200	500	2000	1053	1040	1034	1121	1093	1069
1200	600	2000	1140	1116	1102	1218	1176	1140
1200	800	2000	1318	1265	1228	1421	1342	1274
1200	1000	2000	1520	1424	1353	1655	1522	1411
1350	300	2000	923	922	903	992	983	975
1350	400	2000	1031	1025	1028	1112	1093	1076
1350	600	2000	1224	1196	1180	1331	1282	1239
1350	800	2000	1425	1363	1319	1568	1473	1393
1350	1000	2000	1658	1546	1462	1852	1689	1555
425	800	2200	919	819	745	952	848	755
600	800	2200	1071	1002	899	1092	1037	944
650	800	2200	1107	1061	949	1135	1076	1007
800	800	2200	1233	1181	1130	1284	1212	1152
850	800	2200	1272	1218	1177	1331	1257	1192
1000	800	2200	1393	1328	1281	1485	1396	1319
1100	800	2200	1477	1405	1354	1597	1496	1408
1200	800	2200	1566	1486	1428	1720	1604	1505
1350	800	2200	1710	1616	1547	1928	1785	1666
425	800	2400	963	856	765	972	896	783
600	800	2400	1094	1042	936	1123	1057	998
650	800	2400	1135	1080	994	1172	1102	1041
800	800	2400	1270	1206	1156	1337	1250	1176
850	800	2400	1315	1246	1195	1393	1300	1222
1000	800	2400	1455	1373	1312	1575	1462	1366
1100	800	2400	1554	1462	1393	1712	1581	1472
1200	800	2400	1659	1557	1480	1862	1710	1585
1350	800	2400	1833	1709	1617	2125	1933	1778

Loss factors for horizontal separation panels:

Number of internalal horizontal separation panels	0	1	2	3
Loss factor of P_v	1	0.94	0.84	0,72

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 25 °C

IP55 degree of protection			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	143	122	107	174	141	120
300	400	2000	205	168	136	220	196	154
300	600	2000	320	260	221	355	280	231
300	800	2000	402	373	281	408	370	298
300	1000	2000	489	429	369	499	432	399
425	300	2000	208	182	154	233	214	197
425	400	2000	263	235	202	301	262	232
425	500	2000	335	282	245	357	320	269
425	600	2000	383	342	281	395	369	312
425	800	2000	465	423	375	483	433	393
425	1000	2000	565	501	446	565	516	449
600	300	2000	284	260	242	355	316	284
600	400	2000	374	322	285	383	367	342
600	500	2000	408	409	340	432	408	386
600	600	2000	453	425	404	483	446	415
600	800	2000	575	517	473	581	547	489
600	1000	2000	649	618	549	659	619	571
650	300	2000	312	283	262	356	357	318
650	400	2000	379	357	313	404	387	372
650	600	2000	476	446	423	513	473	439
800	300	2000	375	374	338	409	397	386
800	400	2000	424	410	398	466	444	424
800	500	2000	486	461	442	537	501	471
800	600	2000	556	517	487	581	566	521
800	800	2000	649	627	579	669	638	612
800	1000	2000	736	697	669	762	712	670
850	300	2000	391	383	373	430	416	404
850	400	2000	444	428	417	492	468	447
850	600	2000	585	542	510	600	582	551
850	800	2000	668	645	608	691	659	631
850	1000	2000	758	717	688	789	736	691
1000	300	2000	438	429	423	499	481	466
1000	400	2000	505	486	471	553	550	522
1000	500	2000	589	554	528	607	594	589
1000	600	2000	629	617	584	658	638	620
1000	800	2000	724	697	679	762	723	690
1000	1000	2000	826	779	744	875	812	759
1100	300	2000	469	458	451	527	527	509
1100	400	2000	551	528	511	584	576	568
1100	600	2000	662	648	641	699	676	656
1100	800	2000	763	733	713	812	769	732
1100	1000	2000	874	822	783	939	867	807
1200	300	2000	510	497	488	557	553	549
1200	400	2000	586	580	559	622	612	604
1200	500	2000	641	634	630	683	666	651
1200	600	2000	694	680	672	742	717	694
1200	800	2000	803	771	748	866	818	776
1200	1000	2000	926	868	824	1009	927	860
1350	300	2000	562	562	550	604	599	594
1350	400	2000	628	625	626	677	666	655
1350	600	2000	746	729	719	811	781	755
1350	800	2000	868	830	803	955	898	849
1350	1000	2000	1010	942	891	1129	1029	948
425	800	2200	498	444	404	516	459	409
600	800	2200	580	543	487	592	562	511
650	800	2200	600	575	514	615	583	546
800	800	2200	668	640	613	695	657	624
850	800	2200	689	660	638	722	681	646
1000	800	2200	755	720	695	805	756	715
1100	800	2200	800	762	733	866	810	763
1200	800	2200	849	806	774	932	869	816
1350	800	2200	927	876	838	1044	967	903
425	800	2400	521	464	414	526	485	424
600	800	2400	593	565	507	609	573	541
650	800	2400	615	585	538	635	597	564
800	800	2400	688	653	626	724	677	637
850	800	2400	712	675	647	754	704	662
1000	800	2400	788	744	711	854	792	740
1100	800	2400	842	792	755	927	856	797
1200	800	2400	899	843	801	1.009	927	859
1350	800	2400	993	926	876	1.151	1.047	963

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 35 °C

IP31 degree of protection — Max. power loss P_v in Watt

Dimensions in mm			For wall-mounting			Stand-alone		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	257	220	193	313	254	216
300	400	2000	369	302	245	396	353	277
300	600	2000	576	468	398	639	504	416
300	800	2000	724	671	506	734	666	536
300	1000	2000	880	772	664	898	778	718
425	300	2000	374	328	277	419	385	355
425	400	2000	473	423	364	542	472	418
425	500	2000	603	508	441	643	576	484
425	600	2000	689	616	506	711	664	562
425	800	2000	837	761	675	869	779	707
425	1000	2000	1017	902	803	1017	929	808
600	300	2000	511	468	436	639	569	511
600	400	2000	673	580	513	689	661	616
600	500	2000	734	736	612	778	734	695
600	600	2000	815	765	727	869	803	747
600	800	2000	1035	931	851	1046	985	880
600	1000	2000	1168	1112	988	1186	1114	1028
800	300	2000	619	617	558	675	655	637
800	400	2000	700	677	657	769	733	700
800	500	2000	802	761	729	886	827	777
800	600	2000	917	853	804	959	934	860
800	800	2000	1071	1035	955	1104	1053	1010
800	1000	2000	1214	1150	1104	1257	1175	1106
850	300	2000	645	632	615	710	686	667
850	400	2000	733	706	688	812	772	738
850	600	2000	965	894	842	990	960	909
850	800	2000	1102	1064	1003	1140	1087	1041
850	1000	2000	1251	1183	1135	1302	1214	1140
1000	300	2000	688	674	664	783	755	732
1000	400	2000	793	763	739	868	864	820
1000	500	2000	925	870	829	953	933	925
1000	600	2000	988	969	917	1033	1002	973
1000	800	2000	1137	1094	1066	1196	1135	1083
1000	1000	2000	1297	1223	1168	1374	1275	1192
1100	300	2000	736	719	708	827	827	799
1100	400	2000	865	829	802	917	904	892
1100	600	2000	1039	1017	1006	1097	1061	1030
1100	800	2000	1198	1151	1119	1275	1207	1149
1100	1000	2000	1372	1291	1229	1474	1361	1267
1200	300	2000	765	746	732	836	830	824
1200	400	2000	879	870	839	933	918	906
1200	500	2000	962	951	945	1025	999	977
1200	600	2000	1041	1020	1008	1113	1076	1041
1200	800	2000	1205	1157	1122	1299	1227	1164
1200	1000	2000	1389	1302	1236	1514	1391	1290
1350	300	2000	843	843	825	906	899	891
1350	400	2000	942	938	939	1016	999	983
1350	600	2000	1119	1094	1079	1217	1172	1133
1350	800	2000	1302	1245	1205	1433	1347	1274
1350	1000	2000	1515	1413	1337	1694	1544	1422
425	800	2200	896	799	727	929	826	736
600	800	2200	1044	977	877	1066	1012	920
650	800	2200	1080	1035	925	1107	1049	983
800	800	2200	1102	1056	1011	1147	1084	1030
850	800	2200	1137	1089	1053	1191	1124	1066
1000	800	2200	1185	1130	1091	1264	1187	1123
1100	800	2200	1256	1196	1151	1360	1272	1198
1200	800	2200	1274	1209	1161	1398	1304	1224
1350	800	2200	1391	1314	1257	1566	1451	1355
425	800	2400	938	835	745	947	873	763
600	800	2400	1067	1017	913	1096	1031	974
650	800	2400	1107	1053	968	1143	1075	1015
800	800	2400	1135	1077	1033	1195	1117	1051
850	800	2400	1175	1114	1068	1244	1162	1092
1000	800	2400	1237	1168	1116	1341	1243	1162
1100	800	2400	1322	1243	1185	1455	1344	1251
1200	800	2400	1349	1265	1202	1514	1391	1289
1350	800	2400	1490	1389	1314	1727	1571	1445

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 35 °C

IP42 degree of protection			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
								
300	300	2000	207	177	155	252	204	174
300	400	2000	297	244	197	319	284	223
300	600	2000	464	377	320	515	406	335
300	800	2000	583	541	407	592	537	432
300	1000	2000	709	622	535	724	626	579
425	300	2000	302	264	223	338	310	286
425	400	2000	381	341	293	436	380	336
425	500	2000	486	409	355	518	464	390
425	600	2000	555	496	407	573	535	452
425	800	2000	674	613	544	700	628	570
425	1000	2000	819	726	647	819	748	651
600	300	2000	412	377	351	515	458	412
600	400	2000	542	467	413	555	532	496
600	500	2000	592	593	493	626	592	560
600	600	2000	657	616	586	700	647	602
600	800	2000	834	750	686	842	793	709
600	1000	2000	941	896	796	956	898	828
800	300	2000	525	524	473	573	556	540
800	400	2000	594	574	557	652	622	594
800	500	2000	680	645	619	752	701	659
800	600	2000	778	724	682	813	792	729
800	800	2000	909	878	811	937	893	857
800	1000	2000	1030	976	937	1067	997	938
850	300	2000	547	536	522	602	582	566
850	400	2000	622	599	584	689	655	626
850	600	2000	819	759	714	840	815	771
850	800	2000	935	903	851	967	923	883
850	1000	2000	1061	1004	963	1105	1030	967
1000	300	2000	569	558	550	649	625	606
1000	400	2000	657	632	612	719	715	679
1000	500	2000	766	720	686	789	772	766
1000	600	2000	818	802	759	855	829	806
1000	800	2000	941	906	883	991	940	897
1000	1000	2000	1074	1013	967	1138	1056	987
1100	300	2000	610	595	586	685	685	662
1100	400	2000	716	686	664	759	749	738
1100	600	2000	861	842	833	909	879	853
1100	800	2000	992	953	927	1056	1000	952
1100	1000	2000	1136	1069	1018	1221	1127	1049
1200	300	2000	663	646	634	724	719	714
1200	400	2000	762	754	727	809	796	785
1200	500	2000	833	824	819	888	866	846
1200	600	2000	902	884	874	965	932	902
1200	800	2000	1044	1002	972	1126	1063	1009
1200	1000	2000	1204	1128	1071	1312	1205	1118
1350	300	2000	731	731	715	785	779	772
1350	400	2000	816	813	814	880	866	852
1350	600	2000	970	948	935	1054	1015	982
1350	800	2000	1128	1079	1044	1242	1167	1104
1350	1000	2000	1313	1225	1158	1468	1338	1232
425	800	2200	722	644	586	748	666	593
600	800	2200	841	787	706	858	815	741
650	800	2200	870	834	745	892	845	792
800	800	2200	935	896	858	973	920	874
850	800	2200	965	924	893	1011	953	904
1000	800	2200	982	936	904	1047	983	930
1100	800	2200	1040	991	953	1126	1053	992
1200	800	2200	1104	1048	1006	1212	1130	1061
1350	800	2200	1205	1139	1089	1357	1257	1174
425	800	2400	755	673	600	763	703	615
600	800	2400	860	819	735	883	831	784
650	800	2400	892	848	780	921	866	818
800	800	2400	963	914	876	1014	948	892
850	800	2400	997	945	906	1056	986	927
1000	800	2400	1024	967	924	1110	1030	962
1100	800	2400	1095	1030	982	1205	1113	1036
1200	800	2400	1169	1096	1041	1312	1205	1117
1350	800	2400	1291	1204	1139	1496	1361	1252

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 35 °C

IP31 degree of prot. - closed			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	200	171	150	244	197	168
300	400	2000	287	235	190	308	274	216
300	600	2000	448	364	309	497	392	323
300	800	2000	563	522	393	571	518	417
300	1000	2000	685	601	517	699	605	559
425	300	2000	291	255	216	326	300	276
425	400	2000	368	329	283	421	367	325
425	500	2000	469	395	343	500	448	377
425	600	2000	536	479	393	553	517	437
425	800	2000	651	592	525	676	606	550
425	1000	2000	791	701	624	791	722	629
600	300	2000	398	364	339	497	442	398
600	400	2000	524	451	399	536	514	479
600	500	2000	571	573	476	605	571	540
600	600	2000	634	595	566	676	624	581
600	800	2000	805	724	662	813	766	685
600	1000	2000	909	865	769	923	867	799
800	300	2000	506	505	456	552	536	521
800	400	2000	572	554	537	629	599	572
800	500	2000	656	622	597	725	676	636
800	600	2000	751	698	657	784	764	703
800	800	2000	876	846	782	903	861	826
800	1000	2000	994	941	903	1029	961	905
850	300	2000	528	517	504	581	562	545
850	400	2000	599	578	563	664	632	603
850	600	2000	790	732	689	810	786	744
850	800	2000	902	871	821	933	890	852
850	1000	2000	1023	968	929	1065	994	933
1000	300	2000	548	536	529	624	601	583
1000	400	2000	631	608	589	691	688	653
1000	500	2000	736	693	660	759	743	736
1000	600	2000	786	771	730	823	798	775
1000	800	2000	905	871	849	953	904	863
1000	1000	2000	1033	974	930	1094	1015	949
1100	300	2000	586	573	564	659	659	636
1100	400	2000	689	660	639	730	720	710
1100	600	2000	828	810	801	874	845	820
1100	800	2000	954	916	891	1015	961	915
1100	1000	2000	1093	1028	979	1174	1084	1009
1200	300	2000	638	621	610	696	691	686
1200	400	2000	733	725	699	778	765	755
1200	500	2000	801	793	788	854	833	814
1200	600	2000	868	850	840	928	896	868
1200	800	2000	1004	964	935	1083	1023	970
1200	1000	2000	1158	1085	1030	1261	1159	1075
1350	300	2000	703	703	688	755	749	743
1350	400	2000	785	781	783	846	833	819
1350	600	2000	933	911	899	1014	976	944
1350	800	2000	1085	1038	1004	1194	1123	1061
1350	1000	2000	1263	1178	1114	1411	1286	1185
425	800	2200	697	622	566	722	643	573
600	800	2200	812	760	682	829	787	715
650	800	2200	840	805	720	861	816	764
800	800	2200	935	896	858	973	920	874
850	800	2200	965	924	893	1011	953	904
1000	800	2200	1057	1008	973	1127	1058	1001
1100	800	2200	1120	1067	1026	1212	1134	1068
1200	800	2200	1189	1128	1084	1305	1217	1142
1350	800	2200	1298	1226	1173	1462	1354	1264
425	800	2400	729	650	580	736	679	594
600	800	2400	830	791	710	853	802	757
650	800	2400	861	819	753	889	836	790
800	800	2400	963	914	876	1014	948	892
850	800	2400	997	945	906	1056	986	927
1000	800	2400	1103	1042	995	1196	1109	1036
1100	800	2400	1179	1109	1057	1298	1198	1116
1200	800	2400	1259	1180	1121	1413	1298	1203
1350	800	2400	1390	1296	1226	1611	1466	1348

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 35 °C

IP42 degree of prot. - closed			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	193	165	144	235	190	162
300	400	2000	277	227	184	297	265	208
300	600	2000	432	351	298	479	378	312
300	800	2000	543	504	379	551	500	402
300	1000	2000	660	579	498	674	583	539
425	300	2000	281	246	208	315	289	266
425	400	2000	355	317	273	406	354	313
425	500	2000	452	381	331	482	432	363
425	600	2000	517	462	379	533	498	421
425	800	2000	628	571	506	652	585	531
425	1000	2000	763	676	602	763	697	606
600	300	2000	383	351	327	479	427	383
600	400	2000	505	435	385	517	495	462
600	500	2000	551	552	459	583	551	521
600	600	2000	612	574	545	652	602	560
600	800	2000	776	698	639	784	738	660
600	1000	2000	876	834	741	890	836	771
800	300	2000	488	486	439	532	516	502
800	400	2000	551	533	517	606	577	551
800	500	2000	632	599	575	698	651	612
800	600	2000	723	672	633	755	736	677
800	800	2000	844	815	753	870	829	796
800	1000	2000	957	906	870	991	926	871
850	300	2000	508	498	485	559	541	525
850	400	2000	577	556	542	640	608	581
850	600	2000	761	705	663	780	757	716
850	800	2000	868	839	790	898	857	820
850	1000	2000	985	932	894	1026	957	898
1000	300	2000	526	515	508	599	577	559
1000	400	2000	606	583	565	664	660	626
1000	500	2000	707	665	634	728	713	707
1000	600	2000	755	740	701	790	766	744
1000	800	2000	869	836	815	914	868	828
1000	1000	2000	991	935	893	1050	974	911
1100	300	2000	563	550	541	632	632	611
1100	400	2000	661	634	613	701	691	682
1100	600	2000	794	778	769	839	811	787
1100	800	2000	916	880	856	974	923	878
1100	1000	2000	1049	986	940	1127	1040	968
1200	300	2000	612	596	586	668	664	659
1200	400	2000	703	696	671	746	734	725
1200	500	2000	769	761	756	820	799	781
1200	600	2000	833	816	806	890	860	833
1200	800	2000	964	925	898	1039	982	931
1200	1000	2000	1111	1042	989	1211	1112	1032
1350	300	2000	674	674	660	725	719	713
1350	400	2000	754	750	751	812	799	786
1350	600	2000	895	875	863	973	937	906
1350	800	2000	1042	996	964	1146	1078	1019
1350	1000	2000	1212	1130	1069	1355	1235	1138
425	800	2200	672	599	545	697	620	552
600	800	2200	783	733	657	799	759	690
650	800	2200	810	776	694	830	787	737
800	800	2200	902	864	828	938	887	842
850	800	2200	930	891	861	975	919	872
1000	800	2200	1019	972	938	1087	1021	965
1100	800	2200	1080	1029	990	1169	1094	1030
1200	800	2200	1146	1088	1045	1258	1173	1102
1350	800	2200	1251	1183	1131	1409	1305	1219
425	800	2400	703	626	559	710	655	572
600	800	2400	801	763	684	822	774	730
650	800	2400	830	790	726	857	806	761
800	800	2400	929	882	845	977	914	860
850	800	2400	961	911	873	1018	950	894
1000	800	2400	1064	1004	960	1153	1069	999
1100	800	2400	1137	1069	1019	1251	1156	1076
1200	800	2400	1214	1138	1081	1362	1251	1160
1350	800	2400	1341	1250	1183	1554	1413	1300

Loss factors for horizontal separation panels:

Number of internalal horizontal separation panels	0	1	2	3
Loss factor of P_v	1	0.94	0.84	0,72

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 50 °C

IP55 degree of protection — Max. power loss P_v in Watt

Dimensions in mm			For wall-mounting			Stand-alone		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	71	61	54	87	70	60
300	400	2000	102	84	67	110	98	77
300	600	2000	159	130	110	177	139	115
300	800	2000	200	186	140	203	184	148
300	1000	2000	243	214	184	248	215	199
425	300	2000	104	91	77	117	107	99
425	400	2000	131	117	101	150	130	115
425	500	2000	167	141	122	178	160	134
425	600	2000	191	170	140	197	184	155
425	800	2000	232	211	187	241	216	195
425	1000	2000	281	250	222	282	257	224
600	300	2000	142	130	121	177	158	142
600	400	2000	186	160	142	191	183	170
600	500	2000	204	204	170	216	203	193
600	600	2000	226	212	201	240	222	207
600	800	2000	286	257	236	289	272	244
600	1000	2000	323	308	273	328	308	284
650	300	2000	155	141	130	177	178	158
650	400	2000	189	178	156	201	193	185
650	600	2000	237	222	211	256	235	219
800	300	2000	187	186	169	204	198	192
800	400	2000	211	204	208	232	221	211
800	500	2000	242	230	221	268	250	235
800	600	2000	277	257	243	289	282	259
800	800	2000	323	312	288	333	318	305
800	1000	2000	367	347	333	379	355	333
850	300	2000	195	191	186	214	208	202
850	400	2000	221	213	208	254	233	223
850	600	2000	291	270	254	299	290	274
850	800	2000	333	321	303	344	328	314
850	1000	2000	378	357	342	393	367	344
1000	300	2000	219	214	211	249	240	232
1000	400	2000	252	242	235	275	274	260
1000	500	2000	294	276	263	303	296	294
1000	600	2000	313	308	291	328	318	309
1000	800	2000	361	347	338	379	360	344
1000	1000	2000	412	388	371	436	404	378
1100	300	2000	234	229	225	263	263	254
1100	400	2000	275	263	255	292	287	283
1100	600	2000	330	323	319	348	337	327
1100	800	2000	380	365	355	404	383	365
1100	1000	2000	436	410	390	468	432	402
1200	300	2000	254	248	244	278	276	274
1200	400	2000	292	289	279	310	305	301
1200	500	2000	320	316	314	341	332	325
1200	600	2000	346	339	335	370	357	346
1200	800	2000	400	384	373	431	407	387
1200	1000	2000	461	432	411	503	462	428
1350	300	2000	280	280	274	301	299	296
1350	400	2000	313	312	312	338	332	327
1350	600	2000	372	363	358	404	389	376
1350	800	2000	433	414	400	476	447	423
1350	1000	2000	504	469	444	562	513	472
425	800	2200	248	221	201	257	229	204
600	800	2200	289	271	243	295	280	255
650	800	2200	299	287	256	307	291	272
800	800	2200	333	319	305	347	328	311
850	800	2200	344	329	318	360	340	322
1000	800	2200	376	359	346	401	377	356
1100	800	2200	399	380	366	432	404	381
1200	800	2200	423	402	386	465	433	407
1350	800	2200	462	437	418	521	482	450
425	800	2400	260	231	207	263	242	211
600	800	2400	295	281	253	304	286	270
650	800	2400	307	292	268	317	298	281
800	800	2400	343	326	312	361	338	318
850	800	2400	355	337	323	376	351	330
1000	800	2400	393	371	355	426	395	369
1100	800	2400	420	395	377	462	427	398
1200	800	2400	448	420	400	503	462	428
1350	800	2400	495	462	437	574	522	480

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 50 °C

IP31 degree of protection			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	128	110	97	156	127	108
300	400	2000	184	151	121	198	176	139
300	600	2000	286	234	198	319	250	207
300	800	2000	360	335	252	365	331	266
300	1000	2000	437	385	331	446	387	358
425	300	2000	187	164	139	210	192	177
425	400	2000	236	211	182	270	234	207
425	500	2000	301	253	220	321	288	241
425	600	2000	344	306	252	355	331	279
425	800	2000	418	380	337	434	389	351
425	1000	2000	506	450	400	508	463	403
600	300	2000	255	234	218	319	284	255
600	400	2000	335	288	256	344	329	306
600	500	2000	366	367	306	388	366	347
600	600	2000	407	382	362	432	400	373
600	800	2000	515	463	425	520	490	439
600	1000	2000	581	554	491	590	554	511
800	300	2000	309	308	279	336	326	317
800	400	2000	348	337	343	383	365	348
800	500	2000	400	379	364	442	413	388
800	600	2000	457	424	401	477	465	427
800	800	2000	533	515	475	549	525	503
800	1000	2000	606	573	549	625	586	549
850	300	2000	322	316	307	354	343	333
850	400	2000	365	351	343	419	384	368
850	600	2000	480	446	419	493	479	452
850	800	2000	549	530	500	568	541	518
850	1000	2000	624	589	564	648	606	568
1000	300	2000	343	336	332	391	377	365
1000	400	2000	396	380	369	432	430	408
1000	500	2000	461	434	414	476	465	461
1000	600	2000	491	484	457	515	499	485
1000	800	2000	567	545	531	595	565	540
1000	1000	2000	647	609	582	685	634	593
1100	300	2000	367	359	353	413	413	398
1100	400	2000	431	413	400	458	451	445
1100	600	2000	518	507	501	546	529	513
1100	800	2000	597	573	557	634	601	573
1100	1000	2000	685	644	612	735	678	631
1200	300	2000	381	372	365	417	414	411
1200	400	2000	438	433	418	466	458	452
1200	500	2000	480	474	471	511	498	487
1200	600	2000	519	509	503	555	536	519
1200	800	2000	600	576	560	647	611	581
1200	1000	2000	692	648	617	755	693	642
1350	300	2000	421	420	412	452	448	445
1350	400	2000	470	468	468	507	498	490
1350	600	2000	558	545	537	606	584	564
1350	800	2000	650	621	600	714	671	635
1350	1000	2000	756	704	666	843	770	708
425	800	2200	446	398	362	463	412	367
600	800	2200	520	488	437	531	504	459
650	800	2200	538	517	461	553	524	490
800	800	2200	549	526	503	573	541	513
850	800	2200	568	543	525	594	561	531
1000	800	2200	590	564	543	630	592	559
1100	800	2200	626	597	575	678	634	598
1200	800	2200	635	603	579	698	650	611
1350	800	2200	693	656	627	782	723	675
425	800	2400	468	416	373	473	436	380
600	800	2400	531	506	455	547	515	486
650	800	2400	553	526	482	571	536	506
800	800	2400	566	538	515	596	558	525
850	800	2400	586	556	533	620	579	545
1000	800	2400	617	582	557	669	620	579
1100	800	2400	659	620	592	725	670	625
1200	800	2400	672	630	600	755	693	642
1350	800	2400	743	693	656	861	783	720

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 50 °C

IP42 degree of protection — Max. power loss P_v in Watt

Dimensions in mm			For wall-mounting			Stand-alone		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	103	88	78	126	102	87
300	400	2000	148	122	97	160	142	112
300	600	2000	231	189	160	257	202	167
300	800	2000	290	270	203	294	267	215
300	1000	2000	352	310	267	360	312	289
425	300	2000	151	132	112	169	155	143
425	400	2000	190	170	146	218	189	167
425	500	2000	242	204	177	258	232	194
425	600	2000	277	247	203	286	267	225
425	800	2000	336	306	271	349	313	283
425	1000	2000	407	363	322	409	373	325
600	300	2000	206	188	175	257	228	206
600	400	2000	270	232	206	277	265	247
600	500	2000	295	296	246	313	295	279
600	600	2000	328	307	291	348	322	300
600	800	2000	415	373	342	419	394	354
600	1000	2000	468	447	396	476	447	412
800	300	2000	262	261	236	285	277	269
800	400	2000	295	286	291	325	309	295
800	500	2000	339	322	309	375	350	329
800	600	2000	388	360	340	405	395	363
800	800	2000	452	437	403	466	445	427
800	1000	2000	514	486	466	531	497	466
850	300	2000	273	268	260	300	291	283
850	400	2000	309	298	291	356	326	312
850	600	2000	407	378	356	419	406	384
850	800	2000	466	449	424	482	459	440
850	1000	2000	529	500	479	550	514	482
1000	300	2000	284	278	275	324	312	302
1000	400	2000	328	315	306	358	356	338
1000	500	2000	382	359	343	394	385	382
1000	600	2000	407	400	378	426	413	402
1000	800	2000	469	451	439	493	468	447
1000	1000	2000	536	504	482	567	525	491
1100	300	2000	304	297	293	342	342	330
1100	400	2000	357	342	331	379	373	368
1100	600	2000	429	420	415	452	438	425
1100	800	2000	494	475	462	525	498	475
1100	1000	2000	567	533	507	608	562	523
1200	300	2000	330	322	317	362	359	356
1200	400	2000	380	376	362	403	397	391
1200	500	2000	416	411	409	443	432	422
1200	600	2000	450	441	436	481	464	450
1200	800	2000	520	499	485	560	529	503
1200	1000	2000	599	562	534	654	601	556
1350	300	2000	364	364	357	392	388	385
1350	400	2000	407	405	406	439	432	425
1350	600	2000	484	472	465	525	506	489
1350	800	2000	563	538	520	619	581	550
1350	1000	2000	655	610	577	731	667	614
425	800	2200	360	320	291	373	332	296
600	800	2200	419	393	352	428	406	370
650	800	2200	434	416	371	445	422	394
800	800	2200	466	447	427	486	459	435
850	800	2200	482	461	445	504	476	451
1000	800	2200	489	467	450	521	490	463
1100	800	2200	519	494	476	562	525	495
1200	800	2200	550	523	502	605	563	529
1350	800	2200	601	568	543	677	627	585
425	800	2400	377	335	300	381	351	306
600	800	2400	428	407	367	441	415	392
650	800	2400	445	423	389	460	432	407
800	800	2400	480	456	437	505	473	445
850	800	2400	497	472	452	526	491	462
1000	800	2400	511	482	462	554	514	480
1100	800	2400	546	514	490	601	555	517
1200	800	2400	582	546	520	654	601	556
1350	800	2400	644	601	568	746	679	624

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 50 °C

IP31 degree of prot. - closed			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	100	85	75	122	99	84
300	400	2000	143	118	94	154	137	108
300	600	2000	223	182	154	248	195	161
300	800	2000	280	260	196	284	258	207
300	1000	2000	340	300	258	347	301	279
425	300	2000	146	128	108	163	149	138
425	400	2000	183	164	141	210	182	161
425	500	2000	234	197	171	249	224	188
425	600	2000	267	238	196	276	258	217
425	800	2000	325	295	262	337	302	273
425	1000	2000	393	350	311	395	360	314
600	300	2000	199	182	169	248	221	199
600	400	2000	260	224	199	267	256	238
600	500	2000	285	286	238	302	285	270
600	600	2000	316	297	281	336	311	290
600	800	2000	400	360	330	405	381	342
600	1000	2000	452	431	382	459	431	398
800	300	2000	253	252	228	275	267	260
800	400	2000	285	275	281	313	298	285
800	500	2000	327	310	298	362	338	317
800	600	2000	374	347	328	390	381	350
800	800	2000	436	421	389	450	429	412
800	1000	2000	495	468	450	512	479	450
850	300	2000	263	258	251	289	280	272
850	400	2000	298	288	281	343	315	301
850	600	2000	393	365	343	404	392	370
850	800	2000	450	433	409	464	443	424
850	1000	2000	510	482	462	531	495	464
1000	300	2000	273	268	264	311	300	291
1000	400	2000	315	303	294	344	343	325
1000	500	2000	367	346	329	379	370	367
1000	600	2000	391	385	364	410	398	386
1000	800	2000	451	434	423	474	450	430
1000	1000	2000	515	485	464	545	505	473
1100	300	2000	293	286	281	329	329	317
1100	400	2000	343	329	319	364	359	354
1100	600	2000	413	404	399	435	421	409
1100	800	2000	475	456	444	505	479	456
1100	1000	2000	545	513	488	585	540	503
1200	300	2000	318	310	305	348	345	342
1200	400	2000	365	361	349	388	382	376
1200	500	2000	400	395	393	426	415	406
1200	600	2000	433	424	419	463	446	433
1200	800	2000	500	480	466	539	509	484
1200	1000	2000	576	540	514	629	578	535
1350	300	2000	350	350	343	377	373	371
1350	400	2000	392	390	390	422	415	409
1350	600	2000	465	454	448	505	486	470
1350	800	2000	541	518	500	595	559	529
1350	1000	2000	630	586	555	703	641	590
425	800	2200	347	309	281	360	321	286
600	800	2200	405	379	340	413	392	357
650	800	2200	419	402	358	430	407	381
800	800	2200	466	447	427	486	459	435
850	800	2200	482	461	445	504	476	451
1000	800	2200	526	503	484	561	528	498
1100	800	2200	559	532	512	605	566	533
1200	800	2200	592	563	540	651	606	570
1350	800	2200	647	612	585	729	675	630
425	800	2400	364	323	290	368	339	295
600	800	2400	413	393	354	426	400	378
650	800	2400	430	409	375	444	417	393
800	800	2400	480	456	437	505	473	445
850	800	2400	497	472	452	526	491	462
1000	800	2400	550	519	497	596	553	517
1100	800	2400	588	553	528	647	598	557
1200	800	2400	627	588	560	704	647	599
1350	800	2400	693	647	612	804	731	672

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 50 °C

IP42 degree of prot. - closed			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	96	82	72	117	95	81
300	400	2000	138	113	90	149	132	104
300	600	2000	215	176	149	239	188	155
300	800	2000	270	251	189	274	248	200
300	1000	2000	328	289	248	335	290	269
425	300	2000	140	123	104	157	144	133
425	400	2000	177	158	136	203	176	155
425	500	2000	226	190	165	240	216	181
425	600	2000	258	230	189	266	248	209
425	800	2000	313	285	252	325	292	263
425	1000	2000	379	338	300	381	347	302
600	300	2000	192	175	163	239	213	192
600	400	2000	251	216	192	258	247	230
600	500	2000	275	275	229	291	274	260
600	600	2000	305	286	271	324	300	279
600	800	2000	386	347	319	390	367	329
600	1000	2000	436	416	369	443	416	383
800	300	2000	243	242	219	265	257	250
800	400	2000	274	265	270	302	287	274
800	500	2000	315	299	287	348	325	305
800	600	2000	360	334	316	376	367	337
800	800	2000	420	406	374	433	413	397
800	1000	2000	477	451	433	493	462	433
850	300	2000	253	249	242	279	270	262
850	400	2000	287	277	270	330	303	290
850	600	2000	378	351	330	389	377	356
850	800	2000	433	417	394	447	426	408
850	1000	2000	491	464	445	511	477	447
1000	300	2000	262	257	253	299	288	279
1000	400	2000	302	290	282	330	329	312
1000	500	2000	352	332	316	364	355	352
1000	600	2000	376	370	349	394	382	371
1000	800	2000	433	416	406	455	432	413
1000	1000	2000	494	466	445	523	485	454
1100	300	2000	281	274	270	316	316	304
1100	400	2000	330	316	306	350	345	340
1100	600	2000	396	388	383	418	404	392
1100	800	2000	456	438	426	485	460	438
1100	1000	2000	523	492	468	562	518	482
1200	300	2000	305	297	292	334	331	329
1200	400	2000	351	347	335	372	366	361
1200	500	2000	384	379	377	409	399	390
1200	600	2000	415	407	402	444	428	415
1200	800	2000	480	461	448	517	488	464
1200	1000	2000	553	518	493	604	554	514
1350	300	2000	336	336	329	362	358	356
1350	400	2000	376	374	375	405	398	392
1350	600	2000	446	436	430	485	467	451
1350	800	2000	520	497	480	571	536	508
1350	1000	2000	605	563	533	674	616	566
425	800	2200	335	298	271	347	309	275
600	800	2200	390	366	328	398	378	344
650	800	2200	404	387	346	414	393	367
800	800	2200	450	431	412	468	443	420
850	800	2200	464	444	429	486	459	435
1000	800	2200	508	485	467	541	509	481
1100	800	2200	539	513	494	583	545	514
1200	800	2200	571	543	521	628	585	549
1350	800	2200	624	590	564	703	651	608
425	800	2400	351	312	279	355	327	285
600	800	2400	398	379	342	410	386	365
650	800	2400	414	394	362	428	402	379
800	800	2400	463	440	421	487	456	429
850	800	2400	479	455	436	508	474	446
1000	800	2400	531	501	479	575	533	498
1100	800	2400	567	533	509	624	576	537
1200	800	2400	605	567	540	679	624	578
1350	800	2400	668	624	590	775	705	648

Loss factors for horizontal separation panels:

Number of internalal horizontal separation panels	0	1	2	3
Loss factor of P_v	1	0.94	0.84	0,72

Weights

Weights for fully equipped distribution sections
All weight details are based on weights of representative sample sections.

Incoming supply sections/Outgoing sections with IZM circuit breakers		
XP	1600 A	280 kg
	2500 A	360 kg
	3200 A	550 kg
	4000 A	650 kg
	5000 A	1000 kg
Outgoing sections		
XF	500 kg	
XF (SL)	350 kg	
XR (PIFT)	700 kg	
XW	700 kg	

Project checklist

Project: . . . . . .

Project number: . . . . . .

Name of switchgear system: . . . . . .

Date: . . . . . .

Customer: . . . . . .

Planner: . . . . . .

Phone: . . . . . .

e-mail: . . . . . .

Place of installation: . . . . . .

Type of company: . . . . . .

Ambient temperature: o 35 °C o

Standards: o IEC/EN 61439-1 o IEC/EN 61439-2

Rated operational voltage: o 400 V o V

Frequency: o 50 Hz o . . . . . Hz

Transformer power: . . . . . kVA

Rated incoming current: . . . . . A

Rated short-time withstand current of the main busbars I_{cw} (1 s): . . . . . kA

Degree of protection: o IP31 o IP55

Internal separation: Form. . . . . .

With bottom panels: o yes o no

Network system configuration: o TN-C o TN-S o TN-C-S o TT o IT

o half o full

Control voltage AC: V

o external o internal . . . . . kVA

Control voltage DC: V

o external o internal . . . . . kVA

Control wiring: . . . . . mm^2

Wire end labels: . . . . . .

Space reserves: . . . . . %

Max. permitted distribution system dimensions: W x H x D . . . . . mm

Room height: . . . . . .

Max. transport dimensions: W x H x D . . . . . mm

Arc fault protection: o conventional

Tender text

- Ready to connect, steel-encapsulated low-voltage switchgear system in multiple control panel design.
  Low-voltage switchgear assemblies design-verified according to IEC/EN 61439-2 (VDE 0660 part 600-2).

- The following descriptions are calculation-related and contractual elements. They are to be considered with the descriptions of the individual systems and the equipment, even when they are not mentioned in detail.

- Cabinet systems consisting of individual add-on sections of the same type in torsion-resistant steel profile design, made of 2 mm thick steel sections, with internal pre-drilled holes at 25 mm intervals to DIN 43660, structured powder spray paint RAL 7035 light grey.

- Removable external panelling, made of 1.5 mm sheet steel, structured powder spray paint RAL 7035 light grey.

- All construction parts for internal setup are hot-galvanized and feature pre-drilled holes at 25 mm intervals to DIN 43660.

- Plinth 100/200 mm high, powder-coated in RAL 7035 light grey, with removable front, side and rear panels. The plinth must be suitable for direct transport with the respective tools.

- Switchboard cabinets accessible from the front through inlying doors with external hinges. 180° door opening angle. Door lock with espagnolette lock, 4 point locking and two-way key bit lock. To be actuated with a clip-down handle for half cylinder safety lock.

· Degree of protection:	IP31 according to DIN EN 60529 IP55 with sealed door
· Protective measures:	with protective conductor, protection class I
· Rated insulation voltage:	690 V
· Overvoltage category:	III
· Degree of pollution:	3
· Rated operational voltage:	 V
· Frequency:	. . . . . Hz
· Control voltage AC/DC:	 V
· Busbar rated current:	. . . . . A
· Rated short-time withstand current I_{cw}:	. . . . . kA/s
· Network system configuration:	. . . . .
· Busbars (number), conductor labelling:	. . . . .
· Max. dimensions allowed:	Width . . . . .
	Height . . . . .
	Depth . . . . .
· Largest transport unit allowed:	Width . . . . .
	Height . . . . .
	Depth . . . . .

- All transport units feature removable lifting eyebolts.
- Equipment of the switchgear system with the following components, fixed installation method:

. . . . . .
. . . . . .
. . . . . .
. . . . . .
. . . . . .

Fully assembled switchgear system described above, ready to connect and prewired, subject to 100% ex-factory test to IEC/EN 61439 part 1. The test protocol is part of the documentation.
(Wiring/connection certificate according to IEC/EN 61439-2)

- Manufactured by: Eaton
- Type: xEnergy Main

The new EN 61439 standard

The choice of the verification option is the responsibility of the manufacturer
The type of verification is of minor importance for the customer.

The DESIGN VERIFICATION is to be produced by the **original manufacturer**, (the company that has developed the switchgear system), i. e. by EATON.

It includes the:

1) Design
   10.2) Strength of material and parts
   10.3) Degree of protection of enclosures
   10.4) Clearances and creepage distances
   10.5) Protection against electric shock
   10.6) Incorporation of switching devices and components
   10.7) Internal electrical circuits and connections
   10.8) Terminals for external conductors

2) Characteristics
   10.9) Dielectric properties
   10.10) Temperature-rise limits
   10.11) Short-circuit withstand strength
   10.12) Electromagnetic compatibility (EMC)
   10.13) Mechanical operation

b) ROUTINE VERIFICATION:

It has to be produced by the manufacturer of the switchgear and controlgear assembly (organization that assumes the responisibility for the finished switchgear and controlgear assembly and it represents the verification that the system, after it has been assembled, meets the requirements of the original manufacturer.

It includes:

1) Design rules:
   a) Degree of protection of enclosures;
   b) Clearances and creepage distances;
   c) Protection against electric shock and integrity of protective circuits;
   d) Incorporation of switching devices and components;
   e) Internal electrical circuits and connections;
   f) Terminals for external conductors;
   g) Mechanical operation.

2) Characteristics (See 11.9 to 11.10):
   a) Dielectric properties;
   b) Wiring, operational behavior and functioning.

➢ **Degree of protection through enclosures of switchgear assemblies**

Enclosure requirements have been adopted from other standards, e.g.

Protection against mechanical impact
Protection against contact with live parts
Protection against the ingress of solid bodies
Protection against the ingress of liquids
IP code for set-up in indoor areas
Degree of protection for closed design
Degree of protection for operating front
Degree of protection for removable components in operating position

In case you use enclosures (switchboard cabinets / enclosures) that have been type-tested according to a relevant product standard (see IEC 62 208 among others), no additional tests are required and the results can be adopted.

Validity of type-tests according to EN60439:

Where switchgear and controlgear assemblies tests have been conducted according to IEC60439 prior to the publication of the new product standard and the test results fulfill the requirements of the appropriate parts of the new IEC61439, the verification of these requirements need not to be repeated.

Conclusion:

Type-tested assemblies don't seem to exist anymore. Or do they still exist?

Tests will be carried out in the future too. But they will not be considered as a typical classification feature anymore.
The categories of "type-tested assemblies" and "partially type-tested assemblies" have been discarded completely.
There will only be assemblies conforming to the applicable product standard, in our case: IEC 61 439-1 and -2

1. In the future, the test lab will issue a „Verification Report" confirming that the assembly complies with the applicable product standard

2. The assembly manufacturer (panel builder) will issue, like in the past, a „Certification of Conformity" for each of his (individual / application-related) completed assembly.

Stücknachweis
Routine verification

Firmenlogo/
company logo

Das Produkt/
The product

xEnergy

Hersteller/ Panel Builder:

_____

Beschreibung: Serienmäßig typgeprüftes Baukastensystem zur Herstellung von formunterteilten Niederspannungs- Schaltgerätekombinationen, nach den technischen Richtlinien und IL's (Instruction Leaflets) BA's (Bauanweisungen) der Fa. EATON Gmbh projektiert, hergestellt und stückgeprüft.

Description: Serial type tested kit system for manufacturing of separated low voltage switch gear and control gear assemblies according to the technical specifications and assembly guides IL's (instruction leaflet) an BA's (Bauanweisungen) of company EATON Gmbh configurated, manufactured and routine-tested.

Norm Dokument:
Standard Document:

IEC61439 - 1 :2009
IEC61439 - 2 :2009

Auswahl, Konfiguration, Montage und Prüfung erfolgten unter Einhaltung der Vorgaben der EATON Gmbh gemäß nachstehender Dokumentation:
xEnergy Katalog, Technische Buch, IL's – Instruction Leaflets, BA's – Bauanweisungen

Selection, configuration, assembly and testing in according with specifications or EATON Gmbh as stated in the following documentation: xEnergy catalogue, technical guide, IL's – Instruction Leaflet's, BA's – Bauanweisungen

Routine Verification

Nachfolgend aufgeführter Stücknachweis wurden gemäß IEC 61439-1 und IEC 61439-2 ausgeführt.
Following routine verifications are done in accordance to IEC 61439-1 and IEC 61439-2.

Anmerkung/ Remark:
Stücknachweise brauchen an in der Schaltgerätekombination eingebauten Geräten und an für sich allein verwendbaren Baugruppen nicht durchgeführt werden, wenn sie nach 8.5.3 (aus IEC 61439-1) ausgewählt und nach Anweisungen des Geräteherstellers eingebaut wurden.
Routine verification is not required tob e carried out on devices and self-contained components incorporated in the Assembly when thy have been selected in accordance with 8.5.3 (of IEC 61439-1) and installed in accordance with the instructions of the device manufacturer.

Beschreibung Description	Prüfvorgabe Target test result	Prüfergebnis Test result	Prüfer Test person	Datum date
Hinweis gemäß 11.2 Schutzart von Umhüllungen (nur Stichproben) Verification acc. 11.2 degree of protection of enclosures (only visual inspection)	IP____	IP____		
Nachweis gemäß11.3 Luft- und Kriechstrecken. Physikalische Messung oder Prüfung der Stoßspannungsfestigkeit übereinstimmend mit 10.9.3 Verification acc. 11.3 clearances and creepage distances. Physical measurement or by an impulse voltage test acc. 10.9.3	>=8mm			
Nachweis gem.11.4 Schutz gegen elektrischen Schlag und Durchgängigkeit des Schutzleiterkreises. Sichtprüfung der Maßnahmen gem. 11.4. Verification acc. 11.4 protection against electric shock and integrity of protective circuits. Visual inspection in acc. to 11.4	o.K.			
Nachweis gem. 11.5 Einbau von Betriebsmitteln. Prüfung der Übereinstimmung den Betriebsmittel der Fertigungsunterlagen. Verification acc. 11.5 Incorporation of built-in components. Built-in components shall be in acc. with assembly manufacturing instructions.	o.K.			
Nachweis gem. 11.6 Innere elektrische Stromkreise. Stichprobenartige Prüfung der Verbindungen und Leiter gem. 11.6 Verification acc. 11.6 internal electrical circuits and connections. Inspection on a random basis for connections and conductors acc. to 11.6	o.K.			

Routine Verification

Beschreibung Description	Prüfvorgabe Target test results	Prüfergebnis Test results	Prüfer Test person	Datum date
Nachweis gemäß 11.7 Anschlüsse für von außen eingeführte Leiter. Prüfung der von außen eingeführten Leiter mit den Fertigungsunterlagen gem. 11.7 Verifikation acc. 11.7 terminals for external conductors. Terminals shall be checked in accordance with assembly manufacturing instructions in acc.to 11.7.				
Nachweis gemäß 11.8 mechanischer Funktion. Prüfung der mechanischen Funktionen an der Schaltgerätekombination übereinstimmend mit 10.9.3 Verification acc. 11.8 mechanical operation. Check of mechanical operation at the assembly.	o.K.			
Nachweis gem. 11.9 Isolationseigenschaften. Prüfung gem. 10.9.2 and 11.9 Verification acc. 11.9 dielectric properties. Power-frequency withstand test acc. to 10.9.2 and 11.9	3kV			
Nachweis gem. 11.10 Verdrahtung, Betriebsverhalten und Funktion, Vollständigkeit der Angaben und Kennzeichnung und Funktionsprüfung, ggfs zusätzliches Prüfprotokoll der Funktionsprüfung. Verification acc. 11.10 wiring, operational performance and function. Information and marketing are complete and check of operational functions, if necessary separate test report	o.K.			

Ausstellungsdatum
Date of issue

Name/Funktion/ Unterschrift
name/ function/ signature

_____ _____

Rated/short-circuit currents of standard transformers

Rated voltage U_N	**400/230 V**			**525 V**			**690/400 V**		
Relative short-circuit voltage U_k		4 %[1]	6 %[2]		4 %[1]	6 %[2]		4 %[1]	6 %[2]
Rated power kVA	Rated current A	Short-circuit current[3] I''_k A		Rated current A	Short-circuit current[3] I''_k A		Rated current A	Short-circuit current[3] I''_k A	
400	578	14450	9630	440	11000	7333	336	8336	5568
500	722	18050	12030	550	13750	9166	420	10440	7120
630	909	22750	15166	693	17320	11550	526	1330	8760
800	1156	28900	19260	880	22000	14666	672	16672	11136
1000	1444	36100	24060	1100	27500	18333	840	20840	13920
1250	1805	45125	30080	1375	34375	22916	1050	26060	17480
1600	2312	57800	38530	1760	44000	29333	1330	33300	22300
2000	2888	72200	48120	2200	55000	36666	1680	41680	27840
2500	3612	90300	60200	2752	68800	45866	2094	52350	34900

[1] U_k = 4% standardized to DIN 42500 for S_{NT} = 50...630 kVA

[2] U_k = 6% standardized to DIN 42500 for S_{NT} = 100...1600 kVA

[3] I''_k = Initial symmetrical short-circuit current of transformer for connection to a supply network with unlimited short-circuit capacity

Approximation formula
Transformer rated current

$I_N [A] = k \times S_{NT} [kVA]$

400 V: k = 1.45
500 V: k = 1.1
690 V: k = 0.84

Transformer short-circuit current

$$I''_k = \frac{I_N}{U_k} \times 100$$

Dimensioning of low-voltage switchgear and controlgear assemblies

When rating switchgear and controlgear assemblies with regard to short-circuit withstand strength, the rated short-circuit values basically need to be compared with the short-circuit currents of the incoming power supply. The switchgear and controlgear assembly needs to be rated merely for the short-circuit load which may occur. Busbars need to resist the thermal and dynamic load of the short-circuit currents which may flow in them (e.g. through a circuit breaker on the incoming side, for a limited time). To facilitate the rating, only the rated values of the switchgear and controlgear assembly according to the following scheme are used.

The let-through characteristics of the short-circuit protective device and the attenuation effect of the connection between the transformer and the switchgear and controlgear assembly are thus disregarded.

Rated short-time withstand current $I_{cw} \geq$ transformer short-circuit current I''_k

and

Rated peak withstand current $I_{pk} \geq$ peak short-circuit current i_p

Where a short-circuit protective device leads to a restriction in the duration of the short-circuit, a rated short-time withstand current can be applied for a correpsonding period of time.

Example: incoming supply circuit breaker disconnects short-circuit after 40 ms; an established rated short-time withstand current value for 100 ms is compared with transformer short-circuit current for rating purposes. The rated operational voltage U_e must be the same or greater than the transformer voltage.

Transformer rated current I_N:
$I_N = k \times S_{NT}$
Transformer short-circuit current I''_k:
$I''_k = I_N \times 100/u_{K\%}$
Peak short-circuit current i_p:
$i_p = n \times I''_k$

n = 2.2 at I > 50 kA
n = 2.1 at 20 kA < I ≤ 50 kA

The above described procedure for rating the switchgear and controlgear assembly refers primarily to the rating of main busbar systems. Rating of the dropper bar systems and/or of all connections from the main busbar to the incoming supply side of functional units only need to be rated for the reduced short-circuit load that may occur on the outgoing side of the short-circuit protective device for the functional units. It is a pre-requisite that, under normal operating conditions, a short-circuit is not expected to occur on these dropper bars or connections.

Example:
The transformer short-circuit current I''_k = 90 kA, the selected main busbars have a rated short-time withstand current I_{cw} of 100 kA, the dropper bars, however, have a rated short-time withstand current I_{cw} of 65 kA (because the circuit breaker for the outgoer from the dropper bar has reduced the short-circuit load thanks to its current-limiting effect).

Internal separation

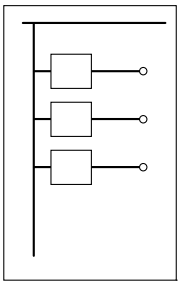
Forms of internal separation according to IEC/EN 61439

Low-voltage switchgear and controlgear assemblies can be divided into separate compartments or barriered sub-sections. The aim of forming separate compartments or barriered sub-sections which contain the functional units is:

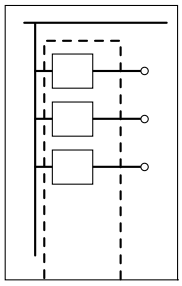
- Protection against direct contact with live parts belonging to an adjacent functional unit (degree of protection shall be IP2X or IP XXB).
- Limitation of the probability of initiating arcing faults
- Protection against the passage of solid foreign bodies from one unit of an assembly to an adjacent unit (degree of protection shall be at least IP2X)

Depending on how the compartments or barriered sub-sections are built, there are different typical forms of internal separation defined:

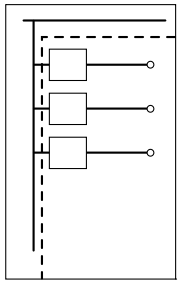
Form 1
- no internal separation provided



Form 2a
- internal separation between busbars and functional units
- terminals for external conductors do not need to be separated from the busbars

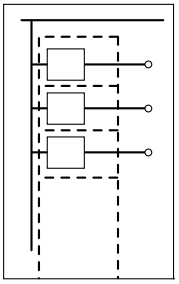


Form 2b
- internal separation between busbars and functional units
- terminals for external conductors need to be separated from the busbars

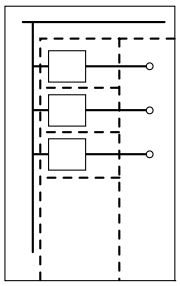


Internal separation

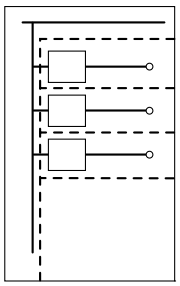
Form 3a
- internal separation between busbars and functional units as well as separation of the functional units from each other
- terminals for external conductors do not need to be separated from the busbars



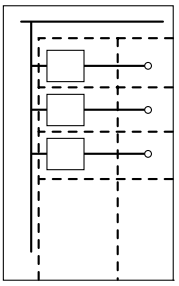
Form 3b
- separation of the terminals for external conductors from functional units, but not from each other
- terminals for external conductors need to be separated from the busbars



Form 4a
- internal separation between busbars and functional units as well as separation of the functional units from each other, including the terminals for external conductors which are an integral part of the functional unit
- Anschlüsse für äußere Leiter im gleichen Abteil wie die zugeordnete Funktionseinheit



Form 4b
- internal separation between busbars and functional units as well as separation of the functional units from each other, including the terminals for external conductors which are an integral part of the functional unit
- terminals for external conductors which are not in the same compartment as the assigned functional units, but which are enclosed in their own barriered area or compartment



The form and degree of protection of the internal separation (if higher than IP2X or IPXX B) need to be agreed between the user and the manufacturer. Internal separations are to protect the personnel and the system during work to be carried out on switchgear and controlgear assemblies that cannot be de-energized for operational reasons. Depending on the operational requirements, distribution sections can optimally be finished in different forms of internal separation. Distribution sections that should allow easy replacement of functional units (e.g. drawer unit distributors) will come with a higher form of internal separation as a standard, e.g. with an internal separation of form 3b. An internal separation according to form 2b, e.g. an internal separation between busbars and functional units, is recommended in any case.

Circuit breakers/devices

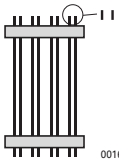
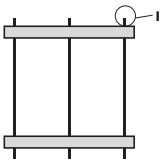
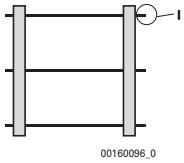
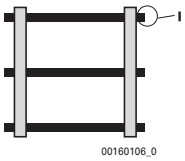
Circuit breaker	Installation type	I_e to A	Category breaking capacity/ optional equipment	Short-circuit rating at 400 V AC		
				I_{cc} kA	I_{cw} kA (1 s)	I_{cu} kA (only for device)
IZM…1-..	Fixed, drawer unit	1600	B	50	42	50
			N	65	50	65
ZM…2-..	Fixed, drawer unit	3200	B	55	55	55
			N	80	65	80
			H	80	80	100
IZM…3-..	Fixed, drawer unit	4000	H	80	80	100
IZMX16			B	65	42	42
			N	65	42	50
			H	65	42	65
IZMX40	Fixed, withdrawable	800	B	66	66	66
			N	85	85	85
			H	-	-	-
		1000	B	66	66	66
			N	85	85	85
			H	-	-	-
		1200	B	66	66	66
			N	85	85	85
			H	-	-	-
		1600	B	66	66	66
			N	85	85	85
			H	-	-	-
		2000	B	66	66	66
			N	85	85	85
			H	-	-	-
		2500	B	66	66	66
			N	85	85	85
			H	-	-	-
		3200	B	66	66	66
			N	85	85	85
			H	-	-	-
		4000	B	66	85	85
			N	85	85	85
			H			
IZM20			B	65	50	50
			N	65	65	65
			H	-	-	-
IZM32			B	100	65	65
			N	100	85	85
			H	100	85	100
IZM40			N	100	85	85
			H	100	100	100
IZM5			B	65	50	50
			N	65	50	65
			H	-	-	-
IZM6			B	80	55	55
			N	80	65	80
			H	80	-	100
IZM7			B	-	-	-
			N	80	65	80
			H	80	70	100
NZM 4	Fixed, drawer unit	1600	N	50	-	50
			H	100	-	100
PKZM0	Fixed	10	-	100	-	100
		32	-	50	-	50
			CL-PKZ0	100	-	100
PKZM4	Fixed	25	-	100	-	100
		63	-	50	-	50

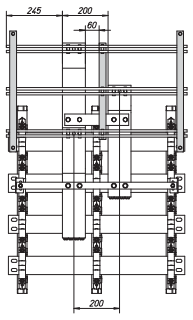
Circuit breakers/devices

Circuit breaker	Installation type	I_e to	Category breaking capacity/ optional equipment	Short-circuit rating at 400 V AC		
		A		I_{cc} kA	I_{cw} kA (1 s)	I_{cu} kA (only for device)
NZM1	Fixed, plug-in module technology	160	B	25	-	25
			N	50	-	50
			H	100	-	100
NZM2	Fixed, plug-in module technology	300	B	30	-	30
			N	85	-	85
			H	100	-	100
NZM3	Fixed, drawer unit	630	N	85	-	85
			H	100	-	100

Devices	Installation type	Size / I_e to	Max. rated current of low-voltage h.b.c. fuse bases, utilization class gL, gG (VDE 0636IEC/EN 60269-1) in A							
			Rated conditional short-circuit current I_{cf} at **500 V AC**				Rated conditional short-circuit current I_{cf} at **690 V AC**			
		A	50 kA	65 kA	80 kA	100 kA	50 kA	65 kA	80 kA	100 kA
GS(TA)	Fixed	00 / 100	100	-	-	-	-	-	-	-
		1 / 250	250	-	-	-	-	-	-	-
		2 / 400	400	-	-	-	-	-	-	-
PIFT	Fixed	00 / 100	160	125	100	80	100	100	100	80
		1 / 250	250	224	200	160	200	160	125	100
		2 / 400	400	400	400	355	315	315	315	250
		3 / 630	630	500	500	425	500	500	500	400
SL	Fixed	00 / 100	160	-	-	-	100	-	-	-
		1 / 250	-	-	250	-	-	-	200	-
		2 / 400	-	-	400	-	-	-	315	-
		3 / 630	-	-	630	-	-	-	500	-

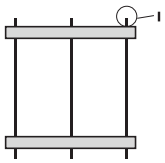
Busbars

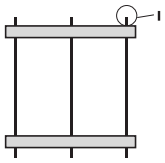
	Busbar I_e A	Busbar cross-section L1, L2, L3 and full N mm^2	Max. center-to-center distance of the busbar supports in mm for I_{cw} (1 s) 35 kA mm	45 kA mm	50 kA mm	65 kA mm	80 kA mm	100 kA mm
Dropper bars								
Flat copper for fixed modules with circuit breakers, with XDSF… busbar supports at the rear or on the side, center-to-center distance of phases 60 mm								
 00160066_0	800	2 x 20 x 10	325	-	-	-	-	-
	1250	2 x 40 x 10	325	325	-	-	-	-
	1600	2 x 60 x 10	600	325	325	-	-	-
Flat copper for horizontally installed PIFT fuse strips with XDSSV…busbar supports, center-to-center distance of phases 185 mm								
 00160086_0	800	1 x 40 x 10	-	600	600	450	450	-
	1000	1 x 60 x 10	-	600	600	450	450	-
	1250	1 x 80 x 10	-	750	750	450	450	-
	1600	1 x 100 x 10	-	750	750	450	450	-
	If necessary, further busbar supports from Eaton should be added depending on the required short-circuit rating.							
Flat copper for vertically installed PIFT fuse strips with XDSSH…busbar supports, center-to-center distance of phases 185 mm								
 00160096_0	80	1 x 40 x 10	-	600	600	450	450	-
	1000	1 x 60 x 10	-	600	600	450	450	-
	1250	1 x 80 x 10	-	750	750	450	450	-
	1600	1 x 100 x 10	-	750	750	450	450	-
	If necessary, further busbar supports from Eaton should be added depending on the required short-circuit rating.							
Flat copper for vertically installed fuse strips, center-to-center distance of phases 185 mm								
 00160106_0	Single copper							
	800	1 x 40 x 10	500	500	500			
	1000	1 x 60 x 10	500	500	500			
	1250	1 x 80 x 10	500	500	500			
	1600	1 x 100 x 10	500	500	500			
	Double busbar system							
	1600	2 x 40 x 10	930	930	730	530	350	-
	2000	2 x 60 x 10	930	930	930	530	450	-
	2500	2 x 80 x 10	930	930	930	530	450	-
	3200	2 x 100 x 10	930	930	930	530	450	-



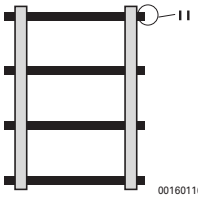
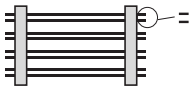
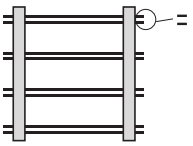
For 65 and 80 kA take notice about maximum distance of dropper bars! Exceeds the maximum allowable distances, additional Durostone supports according to manual have to be installed. The mounting of the Durostone carrier is using the hook bolts. The support is placed exactly between 2 strips, thus does not need an additional empty space to be planned.

Busbars

	Busbar I_e A	Busbar cross-section mm²	Max. center-to-center distance of the busbar supports in mm for I_{cw} **(1 s)** 35 kA mm	45 kA mm	50 kA mm	65 kA mm	80 kA mm
Dropper bars							
Plug-in module technology, center-to-center distance of phases 185 mm							
 00160086_0	900	1 x 40 x 10	600	450	450	-	-
	1350	1 x 60 x 10	600	600	600	450	-
	1800	1 x 80 x 10	600	600	600	450	450

	Busbar I_e A	Busbar cross-section mm²	Max. center-to-center distance of the busbar supports in mm for I_{cw} **(3 s)** 35 kA mm	45 kA mm	50 kA mm	65 kA mm	80 kA mm
Dropper bars							
Plug-in module technology, center-to-center distance of phases 185 mm							
 00160086_0	900	1 x 40 x 10	-	-	-	-	-
	1350	1 x 60 x 10	-	-	-	-	-
	1800	1 x 80 x 10	450	450	450	-	-

Busbars

	Busbar I_e A	Busbar cross-section L1, L2, L3 and full N mm²	Max. center-to-center distance of the busbar supports in mm for I_{cw} (1 s) 35 kA mm	45 kA mm	50 kA mm	65 kA mm	80 kA mm	100 kA[1] mm
Main busbars								
Flat copper at the rear with XBSB… busbar supports, center-to-center distance of phases 180 mm								
 00160116_0	1600	2 x 40 x 10	-	*	350	350	-	-
	2000	2 x 60 x 10	-	*	350	350	-	-
	2500	2 x 80 x 10	-	*	350	350	350	-
	3200	3 x 80 x 10	-	*	350	350	350	350
	4000	3 x 80 x 10	-	*	350	350	350	350
	5000	2x (3 x 80 x 10)	-	*	350	350	350	350
Flat copper at the top with XBST…-1 busbar supports, center-to-center distance of phases 60 mm								
 00160126_0	800	2 x 20 x 10	*	*	*	-	-	-
	1250	2 x 40 x 10	300	300*	*	-	-	-
	1600	2 x 60 x 10	300	300	*	-	-	-
Flat copper at the top with XBST… busbar supports, center-to-center distance of phases 125 mm								
 00160136_0	1250	2 x 40 x 10	450	350	-	-	-	-
	1600	2 x 60 x 10	450	350	350	-	-	-
	2000	2 x 80 x 10	-	450	350	350	-	-
	2500	2 x 100 x 10	-	450	350	350	-	-
	3200	2 x 120 x 10	-	450	350	350	-	-

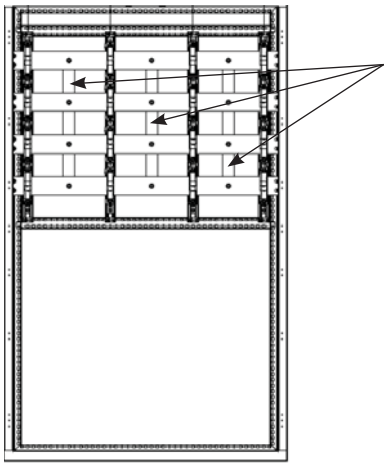
Notes * on request

Attention!
For incoming, outgoing and coupling sections using IZM or NZM4 circuit breakers up to the max. short-circuit rating of the busbars in
- rear position, of I_{cw} (1 s) = 80 kA as of a busbar cross-section 2 x 80 x 10 mm, XBSB…
- top position, of I_{cw} (1 s) = 65 kA as of a busbar cross-section 2 x 80 x 10 mm, XBST…

the incorporation of 2 busbar supports per section is sufficient.

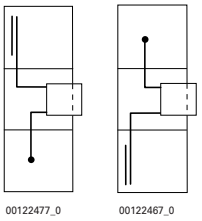
Exception:
For NZM4 circuit breakers in a 600 mm wide section, a max. short-circuit rating of I_{cw} (1 s) = **45 kA** will be achieved with the incorporation of 2 XBSB… or XBST… busbar supports per section.

[1] **Additional information for short-circuit strength 100 kA on the main busbar:**



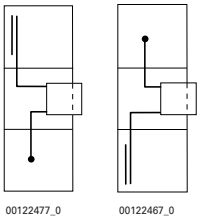
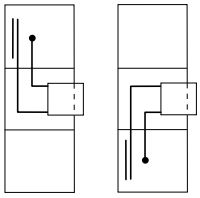
To achieve I_{cw} of 100 kA, additional Durostone supports between the busbar supports have to be be fitted.
Larger carrier distances of up to 450 mm are acceptable if busbar connections on the circuit breakers/distribution busbars are present.

Circuit breaker IZMX16 up to 1600 A

Configuration	Circuit breaker	Installation type	I_e to	Degree of protection	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections			Copper dimensions [1]
			A		25 °C A	35 °C A	50 °C A	
Busbar area at the rear								
up to 3200 A →↔ Section depth 600 mm								
 00122477_0 00122467_0 00122457_1 00122487_1	IZMX16 single	Fixed, with-drawable	1000	IP31 with ventilated top cover with ACB cover	1000	1000	896	1x50x10
				IP31 with ventilated top cover without ACB cover	920	865	689	1x50x10
				IP31 with closed top cover with ACB cover	920	865	828	1x50x10
				IP42 with ventilated top cover with ACB cover	1000	983	862	1x50x10
				IP42 with closed top cover with ACB cover	920	865	828	1x50x10
				IP55 with ACB cover	920	865	828	1x50x10
			1250	IP31 with ventilated top cover with ACB cover	1250	1250	1210	2x50x10
				IP31 with ventilated top cover without ACB cover	1020	960	931	2x50x10
				IP31 with closed top cover with ACB cover	1240	1168	1117	2x50x10
				IP42 with ventilated top cover with ACB cover	1250	1250	1164	2x50x10
				IP42 with closed top cover with ACB cover	1240	1168	1117	2x50x10
				IP55 with ACB cover	1240	1168	1117	2x50x10
			1600	IP31 with ventilated top cover with ACB cover	1430	1350	1210	2x50x10
				IP31 with ventilated top cover without ACB cover	1100	1040	931	2x50x10
				IP31 with closed top cover with ACB cover	1300	1230	1117	2x50x10
				IP42 with ventilated top cover with ACB cover	1410	1327	1164	2x50x10
				IP42 with closed top cover with ACB cover	1240	1168	1117	2x50x10
				IP55 with ACB cover	1240	1168	1117	2x50x10
			1600	IP31 with ventilated top cover with ACB cover	1540	1450	1300	2x60x10
				IP31 with ventilated top cover without ACB cover	1190	1120	1000	2x60x10
				IP31 with closed top cover with ACB cover	1400	1320	1200	2x60x10
				IP42 with ventilated top cover with ACB cover	1510	1425	1250	2x60x10
				IP42 with closed top cover with ACB cover	1330	1255	1200	2x60x10
				IP55 with ACB cover	1330	1255	1200	2x60x10
	IZMX16 side/side	Fixed, with-drawable	1000	IP31 with ventilated top cover with ACB cover	1000	1000	896	1x50x10
				IP31 with ventilated top cover without ACB cover	920	865	689	1x50x10
				IP31 with closed top cover with ACB cover	920	865	828	1x50x10
				IP42 with ventilated top cover with ACB cover	1000	983	862	1x50x10
				IP42 with closed top cover with ACB cover	920	865	828	1x50x10
				IP55 with ACB cover	920	865	828	1x50x10
			1250	IP31 with ventilated top cover with ACB cover	1250	1250	1210	2x50x10
				IP31 with ventilated top cover without ACB cover	1020	960	931	2x50x10
				IP31 with closed top cover with ACB cover	1240	1168	1117	2x50x10
				IP42 with ventilated top cover with ACB cover	1250	1250	1164	2x50x10
				IP42 with closed top cover with ACB cover	1240	1168	1117	2x50x10
				IP55 with ACB cover	1240	1168	1117	2x50x10
			1600	IP31 with ventilated top cover with ACB cover	1430	1350	1210	2x50x10
				IP31 with ventilated top cover without ACB cover	1100	1040	931	2x50x10
				IP31 with closed top cover with ACB cover	1300	1230	1117	2x50x10
				IP42 with ventilated top cover with ACB cover	1410	1327	1164	2x50x10
				IP42 with closed top cover with ACB cover	1240	1168	1117	2x50x10
				IP55 with ACB cover	1240	1168	1117	2x50x10
			1600	IP31 with ventilated top cover with ACB cover	1590	1500	1360	2x60x10
				IP31 with ventilated top cover without ACB cover	1180	1110	1010	2x60x10
				IP31 with closed top cover with ACB cover	1450	1370	1240	2x60x10
				IP42 with ventilated top cover with ACB cover	1560	1474	1308	2x60x10
				IP42 with closed top cover with ACB cover	1380	1298	1255	2x60x10
				IP55 with ACB cover	1380	1298	1255	2x60x10

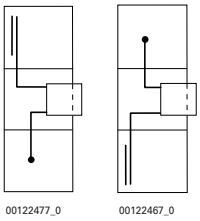
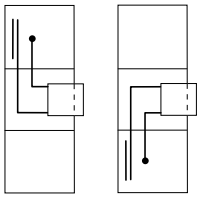
Notes [1] Copper dimension (only as calculation help useable, concret dimensions has to be taken from BA's).

Circuit breaker IZMX40 up to 4000 A

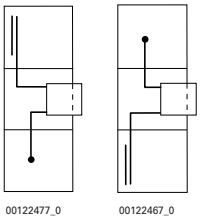
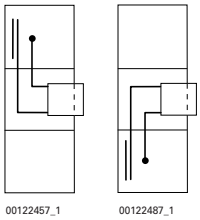
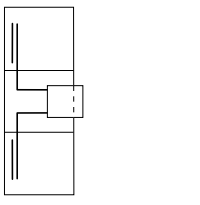
Configuration	Circuit breaker	Installation type	I_e to	Degree of protection	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections			Copper dimensions [1]
			A		25 °C A	35 °C A	50 °C A	
Busbar area at the rear								
up to 3200 A →↔ Section depth 600 mm 4000 A →↔ Section depth 800 mm								
 00122477_0 00122467_0  00122457_1 00122487_1	IZMX40/66 kA	Fixed, with-drawable	1600	IP31 with ventilated top cover	1600	1600	1550	1x80x10
				IP31 with closed top cover	1600	1600	1550	
				IP42 with ventilated top	1600	1600	1485	
				IP42 with closed top cover	1600	1600	1450	
				IP55	1600	1600	1450	
			2000	IP31 with ventilated top cover	2000	2000	2000	2x80x10
				IP31 with closed top cover	2000	2000	1950	+ 3x80x10
				IP42 with ventilated top	2000	2000	2000	+ 2x80x10
				IP42 with closed top cover	2000	1900	1670	
				IP55	2000	1900	1670	
			2500	IP31 with ventilated top cover	2490	2350	2100	2x80x10
				IP31 with closed top cover	2440	2300	1950	+ 3x80x10
				IP42 with ventilated top	2390	2250	2010	+ 2x80x10
				IP42 with closed top cover	2010	1900	1670	
				IP55	2010	1900	1670	
	IZMX40/85 kA	Fixed, with-drawable	1600	IP31 with ventilated top cover	1600	1600	1600	1x80x10
				IP31 with closed top cover	1600	1600	1600	
				IP42 with ventilated top	1600	1600	1534	
				IP42 with closed top cover	1600	1600	1500	
				IP55	1600	1600	1500	
			2000	IP31 with ventilated top cover	2000	2000	2000	2x80x10
				IP31 with closed top cover	2000	2000	2000	
				IP42 with ventilated top	2000	2000	2000	
				IP42 with closed top cover	2000	1980	1750	
				IP55	2000	1980	1750	
			2500	IP31 with ventilated top cover	2500	2400	2150	2x80x10
				IP31 with closed top cover	2490	2350	2000	
				IP42 with ventilated top	2440	2300	2060	
				IP42 with closed top cover	2100	1980	1750	
				IP55	2100	1980	1750	
			3200	IP31 with ventilated top cover	3060	2888	2520	3x80x10
				IP31 with closed top cover	2870	2710	2460	+ 3x100x10
				IP42 with ventilated top	2930	2760	2420	+ 3x80x10
				IP42 with closed top cover	2480	2340	1950	
				IP55	2480	2340	1950	
			4000	IP31 with ventilated top cover	3870	3650	3250	3x120x10
				IP31 with closed top cover	3500	3300	2950	
				IP42 with ventilated top	3500	3500	3120	
				IP42 with closed top cover	2860	2700	2440	
				IP55	2860	2700	2440	

Notes [1] Copper dimension (only as calculation help useable, concret dimensions has to be taken from BA's).

Circuit breaker IZM63 up to 6300 A

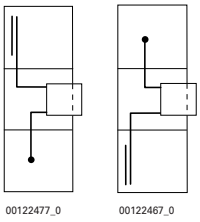
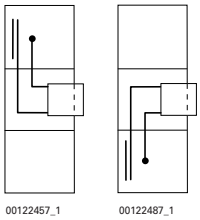
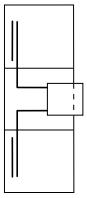
Configuration	Circuit breaker	Installation type	I_e to	Degree of protection	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections			Copper dimensions [1]
			A		25 °C A	35 °C A	50 °C A	
Busbar area at the rear								
4000 A →↔ Section depth 800 mm								
 00122477_0 00122467_0	IZM63	Fixed, with-drawable	4000	IP31 with ventilated top cover	4240	4000	3600	2x3x80x10
				IP31 with closed top cover	3920	3700	2800	
				IP42 with ventilated top	3920	3700	2800	
				IP42 with closed top cover	3290	3100	2850	
				IP55	3290	3100	2850	2x3x100x10
			5000	IP31 with ventilated top cover	4610	4350	3900	2x3x100x10
				IP31 with closed top cover	4130	3900	3496	
				IP42 with ventilated top	4130	3900	3496	
				IP42 with closed top cover	3390	3200	2850	
				IP55	3390	3200	2850	
 00122457_1 00122487_1			6300	IP31 with ventilated top cover	4610	4350	3900	2x3x100x10
				IP31 with closed top cover	4130	3900	3496	
				IP42 with ventilated top	4130	3900	3496	
				IP42 with closed top cover	3390	3200	2850	
				IP55	3390	3200	2850	

Circuit breaker IZM26 up to 5000 A

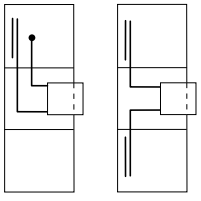
Configuration	Circuit breaker	Installation type	I_e to	Degree of protection	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections		
			A		25 °C A	35 °C A	45 °C A
Busbar area at the rear							
up to 3200 A →↔ Section depth 600 mm 4000 A →↔ Section depth 800 mm							
 00122477_0 00122467_0	IZM20-..	Fixed, drawer unit	2000	IP31 with protection top cover XAD…	1980	1870	1740
				IP31 with closed top panel XSPTC…	1890	1780	1660
				IP55	1750	1650	1540
	IZM32-..	Fixed, drawer unit	2500	IP31 with protection top cover XAD…	2500	2380	2210
				IP31 with closed top panel XSPTC…	2400	2280	2110
				IP55	2090	1970	1830
			3200	IP31 with protection top cover XAD…	2810	2650	2470
				IP31 with closed top panel XSPTC…	2680	2530	2350
				IP55	2350	2220	2070
 00122457_1 00122487_1	IZM40-..	Fixed, drawer unit	4000	IP31 with protection top cover XAD…	3920	3700	3440
				IP31 with closed top panel XSPTC…	3710	3500	3260
				IP55	3130	2950	2740
	IZM20-..	Fixed, drawer unit	2000	IP31 with protection top cover XAD…	1980	1870	1740
				IP31 with closed top panel XSPTC…	1890	1780	1660
				IP55	1750	1650	1540
	IZM32-..	Fixed, drawer unit	2500	IP31 with protection top cover XAD…	2500	2380	2210
				IP31 with closed top panel XSPTC…	2400	2280	2110
				IP55	2090	1970	1830
			3200	IP31 with protection top cover XAD…	2810	2650	2470
				IP31 with closed top panel XSPTC…	2680	2530	2350
				IP55	2350	2220	2070
 00122497_0	IZM40-..	Fixed, drawer unit	4000	IP31 with protection top cover XAD…	3920	3700	3440
				IP31 with closed top panel XSPTC…	3710	3500	3260
				IP55	3130	2950	2740

Notes [1] Copper dimension (only as calculation help useable, concret dimensions has to be taken from BA's).

Circuit breaker series IZM13 - with XP section

Configuration	Circuit breaker	Installation type	I_e to	Degree of protection	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections		
			A		25 °C A	35 °C A	45 °C A
Busbar area at the rear							
up to 3200 A →↔ Section depth 600 mm 4000 A →↔ Section depth 800 mm							
 00122477_0 00122467_0	IZM…1-..	Fixed, drawer unit	1600	IP31 with protection top cover XAD…	1600	1520	1430
				IP31 with closed top panel XSPTC…	1550	1450	1360
				IP55	1450	1370	1270
	IZM…2-..	Fixed, drawer unit	2000	IP31 with protection top cover XAD…	2000	1900	1790
				IP31 with closed top panel XSPTC…	1950	1820	1710
				IP55	1850	1750	1620
			2500	IP31 with protection top cover XAD…	2350	2225	2100
				IP31 with closed top panel XSPTC…	2225	2075	1950
				IP55	1825	1725	1600
 00122457_1 00122487_1			3200	IP31 with protection top cover XAD…	3000	2920	2830
				IP31 with closed top panel XSPTC…	2880	2780	2690
				IP55	2450	2350	2240
	IZM…3-..	Fixed, drawer unit	4000	IP31 with protection top cover XAD…	4000	4000	3700
				IP31 with closed top panel XSPTC…	3950	3680	3400
				IP55	3830	3500	3150
 00122497_0	IZM…1-..	Fixed, drawer unit	1600	IP31 with protection top cover XAD…	1600	1520	1430
				IP31 with closed top panel XSPTC…	1550	1450	1360
				IP55	1450	1370	1270
	IZM…2-..	Fixed, drawer unit	2000	IP31 with protection top cover XAD…	2000	1900	1790
				IP31 with closed top panel XSPTC…	1950	1820	1710
				IP55	1850	1750	1620
			2500	IP31 with protection top cover XAD…	2350	2225	2100
				IP31 with closed top panel XSPTC…	2225	2075	1950
				IP55	1825	1725	1600
			3200	IP31 with protection top cover XAD…	3000	2920	2830
				IP31 with closed top panel XSPTC…	2880	2780	2690
				IP55	2450	2350	2240
	IZM…3-..	Fixed, drawer unit	4000	IP31 with protection top cover XAD…	4000	4000	3700
				IP31 with closed top panel XSPTC…	3950	3680	3400
				IP55	3830	3500	3150

Circuit breaker NZM3/4 - with XP section

Configuration	Circuit breaker	Installation type	I_e to	Degree of protection	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections		
			A		25 °C A	35 °C A	50 °C A
XP-Feld							
 00122457_1 00122497_0	NZM3	Plug-in module, withdrawable, fixed	630	IP31 with ventilated top cover	430	410	390
				IP31 with closed top cover	390	370	360
				IP42 with ventilated top	430	410	390
				IP42 with closed top cover	380	360	334
				IP55	380	360	334
	NZM4	Plug-in module, withdrawable, fixed	1600	IP31 with ventilated top cover	1170	1100	950
				IP31 with closed top cover	1060	1000	870
				IP42 with ventilated top	1170	1100	950
				IP42 with closed top cover	1010	950	820
				IP55	1010	950	820

Circuit breakers up to 630 A

Configuration	Circuit breaker/ Device	Installation type	I_e to A	Degree of protection	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections 25 °C A	35 °C A	50 °C A
Form 2 and 4							
	PKZM0	Fixed	32	IP31 with ventilated top cover	32	31	17.4
				IP31 with closed top cover	30	28.3	15.9
				IP42 with ventilated top	32	31	17.4
				IP42 with closed top cover	24	22.6	13.5
				IP55	24	22.6	13.5
	PKZM4	Fixed	63	IP31 with ventilated top cover	44.5	42	38
				IP31 with closed top cover	40.6	38.3	34.7
				IP42 with ventilated top	44.5	42	38
				IP42 with closed top cover	38.3	36.1	28
				IP55	38.3	36.1	28
	PKE32	Fixed	32	IP31 with ventilated top cover	32	32	20.2
				IP31 with closed top cover	31	29.2	18.4
				IP42 with ventilated top	32	32	20.2
				IP42 with closed top cover	23.2	21.9	15.7
				IP55	23.2	21.9	15.7
	PKE65	Fixed	65	IP31 with ventilated top cover	65	65	540
				IP31 with closed top cover	62.9	59.3	49.3
				IP42 with ventilated top	65	65	54
				IP42 with closed top cover	47.7	45	42
				IP55	47.7	45	42
	NZM1	Fixed	160	IP31 with ventilated top cover	140	130	100
				IP31 with closed top cover	130	120	90
				IP42 with ventilated top	140	130	100
				IP42 with closed top cover	120	116	90
				IP55	120	116	90
		Plug-in module	125	IP31 with ventilated top cover	110	100	90
				IP31 with closed top cover	100	90	80
				IP42 with ventilated top	110	100	90
				IP42 with closed top cover	100	95	80
				IP55	100	95	80
	NZM2	Fixed	300	IP31 with ventilated top cover	220	210	176
				IP31 with closed top cover	200	190	160
				IP42 with ventilated top	220	210	176
				IP42 with closed top cover	190	176	176
				IP55	190	176	176
		Plug-in module	250	IP31 with ventilated top cover	230	220	200
				IP31 with closed top cover	210	200	180
				IP42 with ventilated top	230	220	200
				IP42 with closed top cover	210	200	190
				IP55	210	200	190
	NZM3	Fixed Cu	630	IP31 with ventilated top cover	570	540	420
				IP31 with closed top cover	520	490	380
				IP42 with ventilated top	560	530	420
				IP42 with closed top cover	430	410	320
				IP55	430	410	320
		Fixed Cu	630	IP31 with ventilated top cover	570	540	420
				IP31 with closed top cover	520	490	380
				IP42 with ventilated top	560	530	420
				IP42 with closed top cover	430	410	320
				IP55	430	410	320
		Plug-in module	630	IP31 with ventilated top cover	430	402	370
				IP31 with closed top cover	390	370	340
				IP42 with ventilated top	430	402	370
				IP42 with closed top cover	390	370	351
				IP55	390	370	351

BF circuit breaker modules up to 1060 A in the XF enclosure

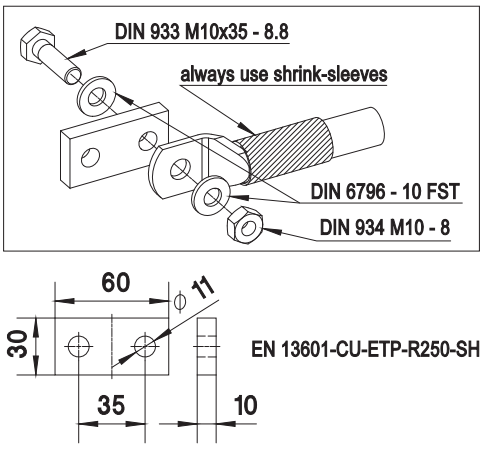
Configuration	Circuit breaker/ Device	Installation type	I_e to	Degree of protection	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections		
			A		25 °C A	35 °C A	50 °C A
Form 2 and 4 / Box Solution							
	NZM1 Double modul	Fixed	125	IP31 with ventilated top cover	106	100	-
				IP31 with closed top cover	97	91	-
			160	IP31 with ventilated top cover	160	151	-
				IP31 with closed top cover	146	138	-
		Plug-in base	125	IP31 with ventilated top cover	96	91	-
				IP31 with closed top cover	88	83	-
	NZM2 Double modul	Fixed	250	IP31 with ventilated top cover	240	226	-
				IP31 with closed top cover	219	206	-
		Plug-in base	250	IP31 with ventilated top cover	212	200	-
				IP31 with closed top cover	194	183	-
	NZM3 Single modul	Fixed	400	IP31 with ventilated top cover	400	400	-
				IP31 with closed top cover	387	365	-
			630	IP31 with ventilated top cover	568	536	-
				IP31 with closed top cover	519	489	-
		Plug-in base	400	IP31 with ventilated top cover	400	400	-
				IP31 with closed top cover	387	365	-
	NZM4 Single modul	Fixed	800	IP31 with ventilated top cover	800	800	-
				IP31 with closed top cover	774	730	-
			1200	IP31 with ventilated top cover	1060	1000	-
				IP31 with closed top cover	968	913	-

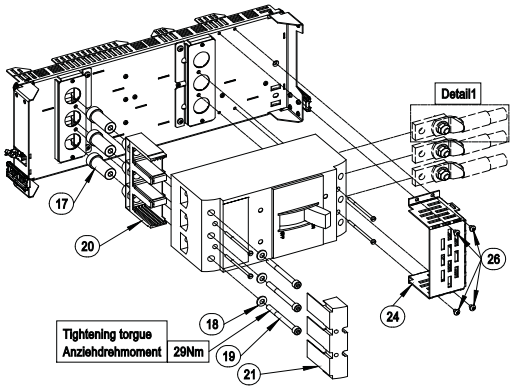
Plug-in modules in the XR-mixed enclosure

Breaker Size/Type	Number of modules per section	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections								
		IP31			**IP42**			**IP55**		
		25 °C A	35 °C A	50 °C A	25 °C A	35 °C A	50 °C A	25 °C A	35 °C A	50 °C A
PKZM0-32	1	33	31	17	33	31	17	24	23	14
PKZM0-32	3	33	31	17	33	31	17	24	23	14
PKZM0-32	5	32	30	17	32	30	17	24	23	14
PKZM0-32	7	32	30	17	32	30	17	23	22	14
PKZM0-32	10	32	30	16	32	30	16	23	22	13
PKZM0-32	20	31	29	16	31	29	16	22	21	13
PKZM0-32	30	29	27	15	29	27	15	21	20	12
PKZM0-32	40	28	26	15	28	26	15	20	19	12
PKZM0-32	50	27	25	14	27	25	14	19	18	11
PKZM0-32	100	19	18	11	19	18	11	14	13	8
PKZM4-50	1	45	42	38	45	42	38	38	36	28
PKZM4-50	3	45	42	38	45	42	38	37	35	28
PKZM4-50	5	43	41	37	43	41	37	37	35	27
PKZM4-50	7	43	41	37	43	41	37	37	35	27
PKZM4-50	10	42	40	36	42	40	36	36	34	27
PKZM4-50	20	41	39	35	41	39	35	34	32	25
PKZM4-50	30	39	37	33	39	37	33	32	30	24
PKZM4-50	40	38	36	32	38	36	32	31	29	22
PKZM4-50	50	36	34	30	36	34	30	28	28	21
PKZM4-50	100	19	18	17	19	18	17	14	14	14
PKE32	1	34	32	20	34	32	20	23	22	16
PKE32	3	34	32	20	34	32	20	23	22	16
PKE32	5	33	31	20	33	31	20	23	22	16
PKE32	7	33	31	19	33	31	19	22	21	16
PKE32	10	33	31	19	33	31	19	22	21	15
PKE32	20	32	30	18	32	30	18	21	20	15
PKE32	30	30	28	18	30	28	18	21	20	14
PKE32	40	29	27	17	29	27	17	20	19	14
PKE32	50	28	26	16	28	26	16	19	18	13
PKE32	100	19	18	12	19	18	12	14	14	10
PKE65	1	69	65	54	69	65	54	48	45	42
PKE65	3	68	64	53	68	64	53	47	44	41
PKE65	5	67	63	52	67	63	52	47	44	41
PKE65	7	66	62	51	66	62	51	46	43	40
PKE65	10	65	61	50	65	61	50	46	43	40
PKE65	20	59	56	47	59	56	47	42	40	38
PKE65	30	55	52	43	55	52	43	40	38	35
PKE65	40	48	45	39	48	45	39	35	35	33
PKE65	50	38	36	33	38	36	33	28	28	28
PKE65	100	19	18	17	19	18	17	14	14	14

Plug-in modules in the XR-mixed enclosure

Breaker Size/Type	Number of modules per section	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections								
		IP31			**IP42**			**IP55**		
		25 °C A	35 °C A	50 °C A	25 °C A	35 °C A	50 °C A	25 °C A	35 °C A	50 °C A
NZM1	1	134	126	93	134	126	93	119	112	70
NZM1	3	129	122	90	129	122	90	112	106	66
NZM1	5	127	120	88	127	120	88	108	102	64
NZM1	7	124	117	86	124	117	86	104	98	61
NZM1	10	120	113	84	120	113	84	98	92	57
NZM1	15	113	107	79	113	107	79	87	82	51
NZM1	20	95	90	83	95	90	83	70	70	45
NZM2	1	236	223	165	236	223	165	198	187	123
NZM2	3	224	211	156	224	211	156	183	173	116
NZM2	5	214	202	149	214	202	149	174	164	111
NZM2	7	206	194	143	206	194	143	164	155	106
NZM2	8	201	190	140	201	190	140	159	150	103
NZM2	10	190	180	134	190	180	134	140	140	98
NZM2	12	158	150	138	158	150	128	117	117	93
NZM3	1	488	460	341	488	460	341	361	341	254
NZM3	2	452	426	316	452	426	316	325	307	229
NZM3	3	432	408	303	432	408	303	307	290	216
NZM3	4	414	391	290	414	391	290	289	273	203
NZM3	5	380	360	277	380	360	277	280	256	190
NZM3	7	271	257	236	271	257	236	200	200	165
NZM3	10	190	180	165	190	180	165	140	140	127
NZM3*	1	594	560	415	594	560	415	464	438	310
NZM3*	2	534	504	374	534	504	374	402	379	279
NZM3*	3	505	476	353	505	476	353	371	350	264
NZM3*	4	475	448	332	475	448	332	350	321	248
NZM3*	5	380	360	330	380	360	312	280	280	233
NZM3*	7	271	257	236	271	257	236	200	200	200
NZM3*	10	190	180	165	190	180	165	140	140	140





Notes *) Cable connection on load side has to be realized with additional copper part (according drawing, length =60mm), so better current values can be achieved before the limiting temperatures are obtained. Copper preparation according drawing (IL456)

PIFT modules in the PIFT enclosure

Size	Number of modules per section	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections								
		IP31			**IP42**			**IP55**		
		25 °C A	35 °C A	50 °C A	25 °C A	35 °C A	50 °C A	25 °C A	35 °C A	50 °C A
PIFT00 (1)	1	133	125	100	133	125	100	96	91	91
PIFT00 (3)	3	128	121	97	128	121	96	93	88	88
PIFT00 (5)	5	126	119	95	125	118	94	91	86	86
PIFT00 (7)	7	123	116	93	122	115	92	88	83	83
PIFT00 (10)	10	120	113	90	117	110	88	85	80	80
PIFT00 (20)	20	106	100	80	101	95	76	73	69	69
PIFT00 (30)	30	69	65	60	69	65	60	64	60	60
PIFT1 (1)	1	191	180	144	191	180	144	139	131	131
PIFT1 (3)	3	183	173	138	177	167	134	129	122	122
PIFT1 (5)	5	178	168	134	169	159	127	123	116	116
PIFT1 (7)	7	173	163	130	159	150	120	116	109	109
PIFT1 (10)	10	164	155	124	145	137	109	106	100	100
PIFT1 (20)	20	69	65	65	69	65	65	69	65	65
PIFT2 (1)	1	334	315	253	334	315	253	244	230	230
PIFT2 (3)	3	313	295	237	313	295	237	228	215	215
PIFT2 (5)	5	299	282	226	299	282	226	217	205	205
PIFT2 (7)	7	272	257	205	272	257	205	186	175	175
PIFT2 (10)	10	191	180	165	191	180	165	148	140	140
PIFT3 (1)	1	519	490	394	519	490	394	379	358	358
PIFT3 (3)	3	448	423	340	432	408	327	315	297	297
PIFT3 (4)	4	424	400	322	403	380	305	254	240	240
PIFT3 (5)	5	371	350	310	371	350	280	186	175	175
PIFT3 (7)	7	272	257	235	272	257	235	148	140	140
PIFT3 (10)	10	191	180	165	191	180	165	–	–	–

PIFT switch fuse units up to 630 A

Device	I_e to	Number per section	Degree of protection	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections		
	A			25 °C A	35 °C A	50 °C A
Horizontal device installation						
PIFT00	160	1	IP31	139	131	118
			IP42	134	126	113
			IP55	108	102	92
		3	IP31	131	124	112
			IP42	126	119	107
			IP55	102	96	86
		5	IP31	126	119	107
			IP42	122	115	104
			IP55	99	93	84
		7	IP31	121	114	103
			IP42	117	110	99
			IP55	94	89	80
		10	IP31	113	107	96
			IP42	109	103	93
			IP55	88	83	75
		20	IP31	88	83	75
			IP42	85	80	72
			IP55	69	65	59
		30	IP31	69	65	59
			IP42	67	63	57
			IP55	54	51	46
PIFT1	250	1	IP31	201	190	171
			IP42	194	183	165
			IP55	161	152	137
		3	IP31	181	171	154
			IP42	175	165	149
			IP55	145	137	123
		5	IP31	167	158	142
			IP42	161	152	137
			IP55	134	126	113
		7	IP31	154	145	131
			IP42	148	140	126
			IP55	123	116	104
		10	IP31	133	125	113
			IP42	128	121	109
			IP55	106	100	90
		20	IP31	69	65	59
			IP42	67	63	57
			IP55	55	52	47
PIFT2	400	1	IP31	339	320	288
			IP42	328	309	278
			IP55	284	268	241
		3	IP31	311	293	264
			IP42	300	283	255
			IP55	260	245	221
		5	IP31	290	274	247
			IP42	280	264	238
			IP55	244	230	207
		7	IP31	271	256	230
			IP42	262	247	222
			IP55	227	214	193
		10	IP31	257	242	218
			IP42	247	233	210
			IP55	215	203	183
PIFT3	630	1	IP31	456	430	387
			IP42	441	416	374
			IP55	379	358	322
		3	IP31	412	389	350
			IP42	399	376	338
			IP55	343	324	292
		5	IP31	383	361	325
			IP42	370	349	314
			IP55	319	301	271
		7	IP31	292	275	248
			IP42	282	266	239
			IP55	243	229	206
		10	IP31	189	178	160
			IP42	182	172	155
			IP55	157	148	133

PIFT switch fuse units up to 630 A

Device	I_e to	Number per section	Degree of protection	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections		
	A			25 °C A	35 °C A	50 °C A
Vertical device installation						
PIFT00	160	1	IP31	90	85	77
			IP42	87	82	73
			IP55	70	66	60
		3	IP31	85	81	73
			IP42	82	77	70
			IP55	66	62	56
		5	IP31	82	77	70
			IP42	79	75	68
			IP55	64	60	55
		7	IP31	79	74	67
			IP42	76	72	64
			IP55	61	58	52
		10	IP31	73	70	62
			IP42	71	67	60
			IP55	57	54	49
		14	IP31	57	54	49
			IP42	55	52	47
			IP55	45	42	38
PIFT1	250	1	IP31	131	124	111
			IP42	126	119	107
			IP55	105	99	89
		3	IP31	118	111	100
			IP42	114	107	97
			IP55	94	89	80
		5	IP31	109	103	92
			IP42	105	99	89
			IP55	87	82	73
		7	IP31	100	94	85
			IP42	96	91	82
			IP55	80	75	68
		9	IP31	86	81	73
			IP42	83	79	71
			IP55	69	65	59
PIFT2	400	1	IP31	220	208	187
			IP42	213	201	181
			IP55	185	174	157
		3	IP31	202	190	172
			IP42	195	184	166
			IP55	169	159	144
		4	IP31	189	178	161
			IP42	182	172	155
			IP55	159	150	135
PIFT3	630	1	IP31	296	280	252
			IP42	287	270	243
			IP55	246	233	209
		3	IP31	268	253	228
			IP42	259	244	220
			IP55	223	211	190
		4	IP31	249	235	211
			IP42	241	227	204
			IP55	207	196	176

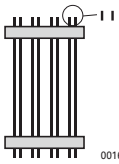
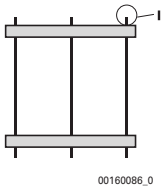
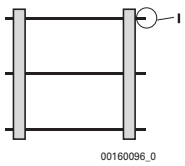
Fuse switch disconnectors up to 630 A (for series: NHW-SLS and FCF)

Device	I_e to	Number per section	Degree of protection	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections		
	A			25 °C A	35 °C A	50 °C A
Vertical device installation						
Size 00	160	1	IP31	143	135	122
			IP42	138	130	117
			IP55	111	105	95
		3	IP31	134	126	113
			IP42	128	121	109
			IP55	103	97	87
		5	IP31	127	120	108
			IP42	122	115	104
			IP55	98	92	83
		9	IP31	113	107	96
			IP42	110	104	94
			IP55	87	82	74
		14	IP31	98	92	83
			IP42	94	89	80
			IP55	73	69	62
Size 1	250	1	IP31	250	250	225
			IP42	250	241	217
			IP55	212	200	180
		3	IP31	249	235	212
			IP42	240	226	203
			IP55	197	186	167
		5	IP31	236	223	201
			IP42	228	215	194
			IP55	184	174	157
		7	IP31	220	208	187
			IP42	212	200	180
			IP55	170	160	144
Size 2	400	1	IP31	392	370	333
			IP42	378	257	321
			IP55	329	310	179
		3	IP31	374	353	318
			IP42	361	341	307
			IP55	306	289	260
		5	IP31	359	339	305
			IP42	348	328	295
			IP55	287	271	244
		7	IP31	341	322	290
			IP42	331	312	281
			IP55	265	250	225
Size 3	630	1	IP31	630	600	540
			IP42	615	580	522
			IP55	530	500	450
		3	IP31	600	566	509
			IP42	581	548	493
			IP55	504	475	428
		5	IP31	570	538	484
			IP42	553	522	470
			IP55	482	455	410
		7	IP31	534	504	454
			IP42	519	490	441
			IP55	456	430	387

xEnergy Main Switchboards

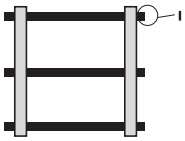
Max. Current load and Power loss [P_v] for Busbars

Dropper bars

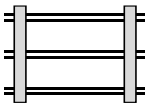
	I_e to	Busbar cross-section L1, L2, L3 and full N	Degree of protection	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections			Power loss P_v		
	A	mm²		25 °C A	35 °C A	50 °C A	25 °C W/m	35 °C W/m	50 °C W/m
Dropper bars									
Flat copper for fixed modules with circuit breakers, with XDSF… busbar supports at the rear or on the side, center-to-center distance of phases 60 mm									
 00160066_0	800	2 x 20 x 10	IP31 with ventilated top cover	1400	1300	1150	120	103	81
			IP31 with closed top cover	1220	1150	1050	91	81	67
			IP42 with ventilated top	1280	1190	1060	100	87	69
			IP42 with closed top cover	1180	1070	920	85	70	52
			IP55	1080	940	780	71	54	37
	1250	2 x 40 x 10	IP31 with ventilated top cover	1730	1600	1400	98	84	64
			IP31 with closed top cover	1580	1460	1280	82	70	54
			IP42 with ventilated top	1580	1460	1280	82	70	54
			IP42 with closed top cover	1460	1380	1270	70	63	53
			IP55	1330	1300	1250	58	56	51
	1600	2 x 60 x 10	IP31 with ventilated top cover	2100	2000	1850	102	92	79
			IP31 with closed top cover	1920	1830	1690	85	77	66
			IP42 with ventilated top	1930	1900	1850	86	83	79
			IP42 with closed top cover	1820	1800	1780	76	75	73
			IP55	1700	1700	1700	67	67	67
Flat copper for horizontally installed PIFT fuse strips with XDSSV…busbar supports, im XR-Mixed and PIFT Feld, center-to-center distance of phases 185 mm									
 00160086_0	800	1 x 40 x 10	IP31 with ventilated top cover	950	900	825	55	50	42
			IP31 with closed top cover	870	820	750	46	41	34
			IP42 with ventilated top	950	900	825	55	50	42
			IP42 with closed top cover	830	800	760	42	39	35
			IP55	760	700	700	35	30	30
	1000	1 x 60 x 10	IP31 with ventilated top cover	1430	1350	1237	86	76	64
			IP31 with closed top cover	1300	1230	1130	71	63	54
			IP42 with ventilated top	1430	1350	1237	86	76	64
			IP42 with closed top cover	1240	1200	1140	64	60	54
			IP55	1130	1050	1050	54	46	46
	1250	1 x 80 x 10	IP31 with ventilated top cover	1900	1800	1650	117	105	88
			IP31 with closed top cover	1730	1640	1510	97	87	74
			IP42 with ventilated top	1900	1800	1650	117	105	88
			IP42 with closed top cover	1650	1600	1530	88	83	76
			IP55	1510	1400	1400	74	63	63
	1600	1 x 100 x 10	IP31 with ventilated top cover	1900	1800	1650	97	87	73
			IP31 with closed top cover	1730	1640	1510	80	72	61
			IP42 with ventilated top	1900	1800	1650	97	87	73
			IP42 with closed top cover	1650	1600	1530	73	68	63
			IP55	1510	1400	1400	61	52	52
Flat copper for vertically installed PIFT fuse strips with XDSSH…busbar supports, im PIFT Feld, center-to-center distance of phases 185 mm									
 00160096_0	800	1 x 40 x 10	IP31 with ventilated top cover	950	900	825	55	50	42
			IP31 with closed top cover	870	820	750	46	41	34
			IP42 with ventilated top	950	900	825	55	50	42
			IP42 with closed top cover	830	800	760	42	39	35
			IP55	760	700	700	35	30	30
	1000	1 x 60 x 10	IP31 with ventilated top cover	1430	1350	1237	86	76	64
			IP31 with closed top cover	1300	1230	1130	71	63	54
			IP42 with ventilated top	1430	1350	1237	86	76	64
			IP42 with closed top cover	1240	1200	1140	64	60	54
			IP55	1130	1050	1050	54	46	46
	1250	1 x 80 x 10	IP31 with ventilated top cover	1900	1800	1650	117	105	88
			IP31 with closed top cover	1730	1640	1510	97	87	74
			IP42 with ventilated top	1900	1800	1650	117	105	88
			IP42 with closed top cover	1650	1600	1530	88	83	76
			IP55	1510	1400	1400	74	63	63
	1600	1 x 100 x 10	IP31 with ventilated top cover	1900	1800	1650	97	87	73
			IP31 with closed top cover	1730	1640	1510	80	72	61
			IP42 with ventilated top	1900	1800	1650	97	87	73
			IP42 with closed top cover	1650	1600	1530	73	68	63
			IP55	1510	1400	1400	61	52	52

Max. Current load and Power loss [P_v] for Busbars

Dropper bars for SL - section to section up to 1600 A

	I_e to	Busbar cross-section L1, L2, L3 and full N	Degree of protection	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections			Power loss P_v		
	A	mm²		25 °C A	35 °C A	50 °C A	25 °C W/m	35 °C W/m	50 °C W/m
Dropper bars									
Flat copper for vertically installed SL fuse strips with XSML… fitting kit, center-to-center distance of phases 185 mm									
 00160106_0	800	1 x 40 x 10	IP31 with ventilated top cover	1340	1240	1090	110	94	73
			IP31 with closed top cover	1220	1130	1000	91	78	61
			IP42 with ventilated top	1340	1240	1090	110	94	73
			IP42 with closed top cover	1240	1150	1010	94	81	62
			IP55	1130	1050	920	78	67	52
	1000	1 x 60 x 10	IP31 with ventilated top cover	1500	1390	1220	94	81	62
			IP31 with closed top cover	1370	1270	1110	79	68	52
			IP42 with ventilated top	1500	1390	1220	94	81	62
			IP42 with closed top cover	1380	1280	1130	80	69	54
			IP55	1260	1170	1030	67	57	44
	1250	1 x 80 x 10	IP31 with ventilated top cover	1660	1540	1360	89	77	60
			IP31 with closed top cover	1520	1410	1240	75	64	50
			IP42 with ventilated top	1660	1540	1360	89	77	60
			IP42 with closed top cover	1530	1420	1250	76	65	50
			IP55	1390	1290	1140	62	54	42
	1600	1 x 100 x 10	IP31 with ventilated top cover	1840	1700	1500	91	77	60
			IP31 with closed top cover	1680	1550	1370	75	64	50
			IP42 with ventilated top	1840	1700	1500	91	77	60
			IP42 with closed top cover	1680	1560	1370	75	65	50
			IP55	1520	1410	1240	62	53	41

Dropper bars for SL - section to section up to 3200 A

	I_e to	Busbar cross-section L1, L2, L3 and full N	Degree of protection	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections			Power loss P_v		
	A	mm²		25 °C A	35 °C A	50 °C A	25 °C W/m	35 °C W/m	50 °C W/m
Dropper bars									
Flat copper for vertically installed SL fuse strips with XSMLV-I… fitting kit, dropper bars combinable									
 00160136_0a	1600	2 x 40 x 10	IP31 with ventilated top cover	2140	2000	1790	150	131	105
			IP31 with closed top cover	1980	1830	1630	129	110	87
			IP42 with ventilated top	1980	1850	1660	129	112	91
			IP42 with closed top cover	1880	1730	1510	116	98	75
			IP55	1780	1600	1360	104	84	61
	2000	2 x 60 x 10	IP31 with ventilated top cover	2700	2520	2250	168	146	117
			IP31 with closed top cover	2600	2400	2100	156	133	102
			IP42 with ventilated top	2500	2330	2080	144	125	100
			IP42 with closed top cover	2330	2170	1910	125	109	84
			IP55	2150	2000	1740	107	92	70
	2500	2 x 80 x 10	IP31 with ventilated top cover	3200	2940	2580	186	157	121
			IP31 with closed top cover	3030	2750	2370	167	137	102
			IP42 with ventilated top	2960	2720	2390	159	134	104
			IP42 with closed top cover	2710	2500	2170	133	113	85
			IP55	2460	2270	1960	110	93	70
	3200	2 x 100 x 10	IP31 with ventilated top cover	3420	3200	2780	178	156	117
			IP31 with closed top cover	3210	3000	2610	157	137	104
			IP42 with ventilated top	3210	3000	2610	157	137	104
			IP42 with closed top cover	3210	3000	2610	157	137	104
			IP55	3210	3000	2610	157	137	104

ATTENTION! Use Cu according to standard EN 13601-CU-ETP-R250-SH

xEnergy Main Switchboards

Max. Current load and Power loss [P_v] for Busbars

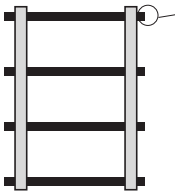
dropper bars for XW section up to 2000 A

	I_e to	Busbar cross-section L1, L2, L3 and full N	Degree of protection	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections			Power loss P_v		
	A	mm²		25 °C A	35 °C A	50 °C A	25 °C W/m	35 °C W/m	50 °C W/m
Dropper bars									
Flat copper for XW-modules, with XDSF…-MC, center-to-center distance of phases 60 mm									
	1000	1 x 40 x 10	IP31 with ventilated top cover	1000	1000	1000	61	61	61
			IP31 with closed top cover	1000	1000	1000	61	61	61
			IP42 with ventilated top	1000	1000	1000	61	61	61
			IP42 with closed top cover	1000	1000	1000	61	61	61
			IP55	1000	1000	1000	61	61	61
	2000	2 x 40 x 10	IP31 with ventilated top cover	2000	2000	2000	131	131	131
			IP31 with closed top cover	2000	2000	2000	131	131	131
			IP42 with ventilated top	2000	2000	2000	131	131	131
			IP42 with closed top cover	2000	2000	2000	131	131	131
			IP55	2000	2000	2000	131	131	131

ATTENTION! Use Cu according to standard EN 13601-CU-ETP-R250-SH

Max. Current load and Power loss [P_v] for Busbars

Main busbars

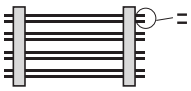
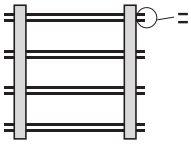
	I_e to	Busbar cross-section L1, L2, L3 and full N	Degree of protection	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections			Power loss P_v		
	A	mm²		25 °C A	35 °C A	50 °C A	25 °C W/m	35 °C W/m	50 °C W/m
Main busbars									
Flat copper at the rear with XBSB… busbar supports, center-to-center distance of phases 180 mm									
 00160116_0	1000	1 x 40 x 10	IP31 with ventilated top cover	1090	1000	860	73	61	45
			IP31 with closed top cover	1000	915	785	61	51	38
			IP42 with ventilated top	1030	930	785	65	53	38
			IP42 with closed top cover	955	870	740	56	46	33
			IP55	880	800	685	47	39	29
	1250	1 x 60 x 10	IP31 with ventilated top cover	1380	1260	1080	80	67	49
			IP31 with closed top cover	1310	1200	1030	72	60	44
			IP42 with ventilated top	1260	1170	1030	67	57	44
			IP42 with closed top cover	1180	1090	950	58	50	38
			IP55	1090	1000	860	50	42	31
	1600	2 x 40 x 10	IP31 with ventilated top cover	2190	2000	1720	158	131	97
			IP31 with closed top cover	2000	1830	1570	131	110	81
			IP42 with ventilated top	2040	1850	1570	137	112	81
			IP42 with closed top cover	1900	1730	1470	119	98	71
			IP55	1750	1600	1375	101	84	62
	2000	2 x 60 x 10	IP31 with ventilated top cover	2760	2520	2165	176	146	108
			IP31 with closed top cover	2630	2400	2060	159	133	98
			IP42 with ventilated top	2510	2330	2060	145	125	98
			IP42 with closed top cover	2350	2170	1890	127	109	82
			IP55	2190	2000	1720	111	92	68
	2500	2 x 80 x 10	IP31 with ventilated top cover	3220	2940	2525	188	157	116
			IP31 with closed top cover	3010	2750	2365	164	137	101
			IP42 with ventilated top	2960	2720	2365	159	134	101
			IP42 with closed top cover	2720	2500	2160	134	113	85
			IP55	2480	2270	1950	112	93	69
	3200	3 x 80 x 10	IP31 with ventilated top cover	3900	3600	3150	184	157	120
			IP31 with closed top cover	3530	3250	2830	151	128	97
			IP42 with ventilated top	3610	3330	2830	157	134	97
			IP42 with closed top cover	3280	3030	2620	130	111	83
			IP55	2950	2730	2400	105	90	70
	4000	3 x 80 x 10	IP31 with ventilated top cover	4100	3750	3220	203	170	125
			IP31 with closed top cover	3800	3470	2980	175	146	107
			IP42 with ventilated top	3800	3470	2980	175	146	107
			IP42 with closed top cover	3460	3160	2720	145	121	89
			IP55	3120	2850	2450	118	98	73
		4 x 80 x 10	IP31 with ventilated top cover	5050	4600	3800	231	192	131
			IP31 with closed top cover	4800	4400	3645	209	176	121
			IP42 with ventilated top	4590	4260	3645	191	165	121
			IP42 with closed top cover	4420	4080	3450	177	151	108
			IP55	4240	3900	3260	163	138	96
	4500	5 x 80 x 10	IP31 with ventilated top cover	5730	5250	4350	238	200	137
			IP31 with closed top cover	5620	5150	4265	229	192	132
			IP42 with ventilated top	5180	4860	4265	195	171	132
			IP42 with closed top cover	5060	4650	3890	190	164	121
			IP55	5060	4650	3890	186	157	110
	5000	6 x 80 x 10	IP31 with ventilated top cover	6060	5550	4600	222	186	128
			IP31 with closed top cover	6060	5550	4600	222	186	128
			IP42 with ventilated top	5410	5130	4600	177	159	128
			IP42 with closed top cover	5460	5020	4200	179	156	117
			IP55	5460	5020	4200	180	152	107

ATTENTION! Use Cu according to standard EN 13601-CU-ETP-R250-SH

xEnergy Main Switchboards

Max. Current load and Power loss [P_v] for Busbars

Main busbars

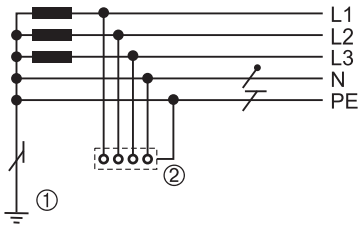
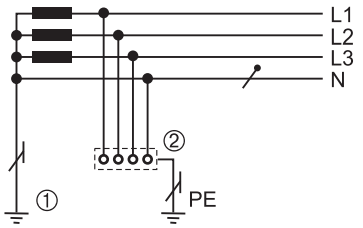
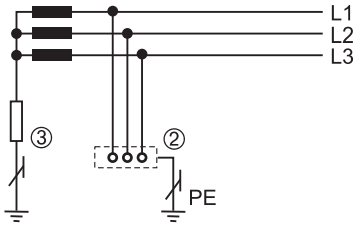
	I_e to	Busbar cross-section L1, L2, L3 and full N	Degree of protection	Admitted continuous current I depending on ambient temperature and degree of protection of the distribution sections			Power loss P_v		
	A	mm²		25 °C A	35 °C A	50 °C A	25 °C W/m	35 °C W/m	50 °C W/m
Main busbars									
Flat copper at the top with XBST…-1 busbar supports, center-to-center distance of phases 60 mm									
 00160126_0	800	2 x 20 x 10	IP31 with ventilated top cover	1030	950	820	65	55	41
			IP31 with closed top cover	880	800	680	47	39	28
			IP42 with ventilated top	950	880	760	55	47	35
			IP42 with closed top cover	820	760	650	41	35	26
			IP55	690	630	530	29	24	17
	1250	2 x 40 x 10	IP31 with ventilated top cover	1625	1500	1290	87	74	55
			IP31 with closed top cover	1375	1250	1060	62	51	37
			IP42 with ventilated top	1500	1390	1200	74	63	47
			IP42 with closed top cover	1300	1200	1010	56	47	34
			IP55	1100	1000	830	40	33	23
	1600	2 x 60 x 10	IP31 with ventilated top cover	1950	1800	1560	88	75	56
			IP31 with closed top cover	1650	1500	1280	63	52	38
			IP42 with ventilated top	1800	1670	1450	75	64	48
			IP42 with closed top cover	1590	1460	1250	58	49	36
			IP55	1380	1250	1040	44	36	25
Flat copper at the top with XBST… busbar supports, center-to-center distance of phases 125 mm									
 00160136_0	1250	2 x 40 x 10	IP31 with ventilated top cover	1950	1800	1510	125	106	75
			IP31 with closed top cover	1650	1500	1280	89	74	54
			IP42 with ventilated top	1800	1670	1400	106	92	64
			IP42 with closed top cover	1640	1490	1220	88	73	49
			IP55	1470	1300	1030	71	56	35
	1600	2 x 60 x 10	IP31 with ventilated top cover	2500	2300	2000	144	122	92
			IP31 with closed top cover	2200	2000	1700	112	92	67
			IP42 with ventilated top	2310	2130	1850	123	105	79
			IP42 with closed top cover	2100	1920	1640	102	85	62
			IP55	1880	1700	1430	81	67	47
	2000	2 x 80 x 10	IP31 with ventilated top cover	2930	2720	2390	156	134	104
			IP31 with closed top cover	2430	2230	1930	107	90	68
			IP42 with ventilated top	2710	2520	2210	133	115	89
			IP42 with closed top cover	2450	2250	1950	109	92	69
			IP55	2180	1980	1680	86	71	51
	2500	2 x 100 x 10	IP31 with ventilated top cover	3350	3080	2690	171	144	110
			IP31 with closed top cover	2750	2590	2340	115	102	83
			IP42 with ventilated top	3100	2850	2490	146	123	94
			IP42 with closed top cover	2730	2530	2220	113	97	75
			IP55	2360	2200	1950	85	74	58
	3200	2 x 120 x 10	IP31 with ventilated top cover	3600	3350	3000	174	151	121
			IP31 with closed top cover	3320	3060	2670	148	126	96
			IP42 with ventilated top	3330	3100	2780	149	129	104
			IP42 with closed top cover	2950	2730	2410	117	100	78
			IP55	2560	2350	2040	88	74	56

ATTENTION! Use Cu according to standard EN 13601-CU-ETP-R250-SH

Protective measures

The conditions for disconnection depend on the type of network system in use and on the selected protective devices.

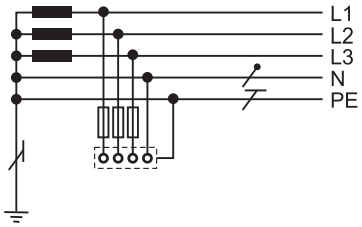
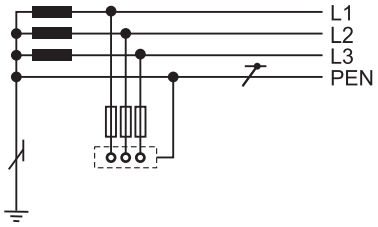
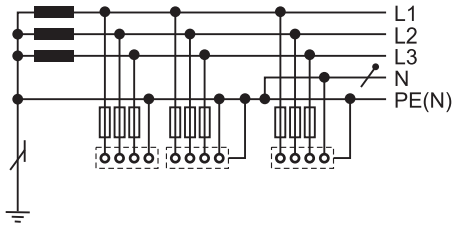
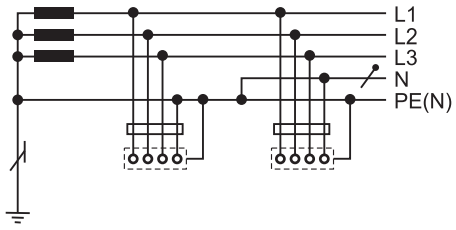
Systems according to IEC 364-3/VDE 0100 Part 310

Systems depending on the type of connection to earth	Meaning of abbreviations
TN network 	T: Direct earthing of one point (system earth) N: Chassis directly connected to the system earth
TT network 	T: Direct earthing of one point (system earth) T: Chassis directly earthed, independent from the earthing of the power supply (system earth)
IT network 	I: All live parts isolated from earth or one point connected to earth via an earth through impedance T: Chassis directly earthed, independent from the earthing of the power supply (system earth)

① System earth
② Chassis
③ Impedance

Protective devices and conditions for disconnection according to IEC 364-4-1/VDE 0100 Part 410

Protective devices and conditions for disconnection according to IEC 364-4-1/VDE 0100 Part 410

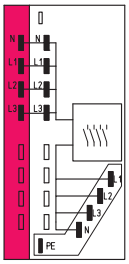
Type of network system	**TN network**		
Protected through	*Circuit principle*	*Designation so far*	*Condition for disconnection*
Overcurrent protective device	TN-S-System Separate neutral and protective conductors throughout the system 		Z_s x $I_a \leq U_0$ Z_s = Impedance of the fault circuit I_a = Current that causes disconnection in: • ≤ 5 s • ≤ 0,2 s in circuits up to 35 A with sockets and stationary, handheld components U_0 = Rated voltage against earthed conductor
Fuses Miniature circuit breakers Circuit breakers	TN-C-System Neutral conductor and protective functions throughout the system are combined in a single PEN conductor 	Protective multiple earthing	
Overcurrent protective device	TN-C-S-System Neutral conductor and protective functions in a part of the system are combined in a single PEN conductor 		
Residual current protective device		RCD protective circuit	Z_s x $I_{\Delta n} \leq U_0$ $I_{\Delta n}$ = Rated fault current U_0 = Max. permissible touch voltage: (≤ 50 V AC, ≤ 120 V DC)
Residual voltage protective device (special case)			
Insulation monitoring device			

incoming supplies, outgoers and couplings of 800 up to 5000 A, rear-mounted busbars

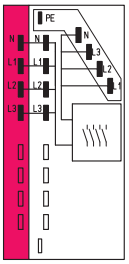
Overview of circuit types/network types for xEnergy Main with rear-mounted XP busbars + IZM1, 2, 3/NZM4

TN-S		**TN-S**		**TN-C**		**TN-C-S**	
Main busbar:	4 conductors L1, L2, L3, N	Main busbar:	4 conductors L1, L2, L3, N	Main busbar:	3 conductors L1, L2, L3	Main busbar:	4 conductors L1, L2, L3, N
Device:	4 poles L1, L2, L3, N	Device:	3 poles L1, L2, L3	Device:	3 poles L1, L2, L3	Device:	3 poles L1, L2, L3
Connection:	5 conductors L1, L2, L3, N	Connection:	5 conductors L1, L2, L3, N	Connection:	4 conductors L1, L2, L3	Connection:	4 conductors L1, L2, L3

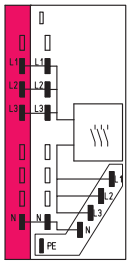
E13-45



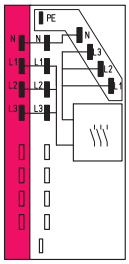
E11-45



E13-35N



E11-35



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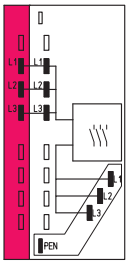

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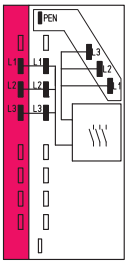

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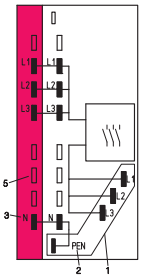

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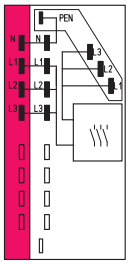

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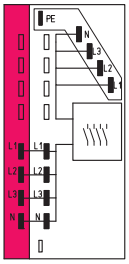

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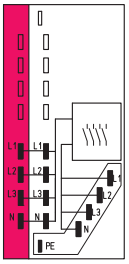

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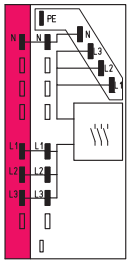

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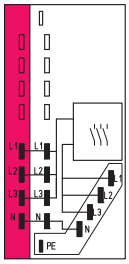

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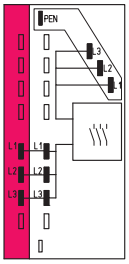

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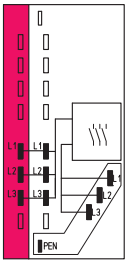

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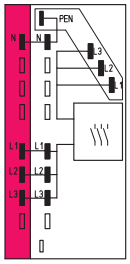

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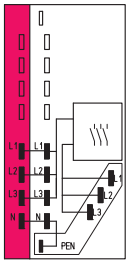

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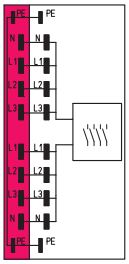

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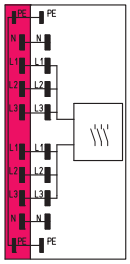

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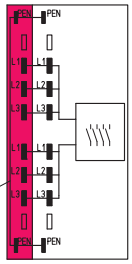


xEnergy_Schaltungsarten

① Connection system: XCSIY and Wöhner
② TN-C-S: Connection PEN to main busbar N = main conductor cross-section
③ Main busbar-N: runs through all system sections of individual N brackets
④ PE at the top to PE at the bottom: Necessary with a change of the connection direction. Can be implemented in each section.
⑤ Main busbar system: area for second busbar system (main busbar can lead through each system section) or area for N conductor
Additional busbar area where 5000 A are used

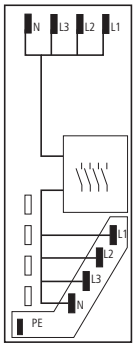
xEnergy Main Switchboards

Overview of circuit types

Incoming supplies and outgoers of 800 up to 3200 A, top-mounted busbars

TN-S		TN-S		TN-C		TN-C-S	
Main busbar:	4 conductors L1, L2, L3, N	Main busbar:	4 conductors L1, L2, L3, N	Main busbar:	3 conductors L1, L2, L3	Main busbar:	4 conductors L1, L2, L3, N
Device:	4 poles L1, L2, L3, N	Device:	3 poles L1, L2, L3	Device:	3 poles L1, L2, L3	Device:	3 poles L1, L2, L3
Connection:	5 conductors L1, L2, L3, N	Connection:	5 conductors L1, L2, L3, N	Connection:	4 conductors L1, L2, L3	Connection:	4 conductors L1, L2, L3

E13-45



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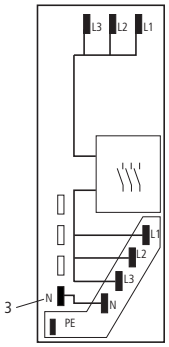

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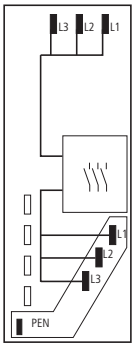

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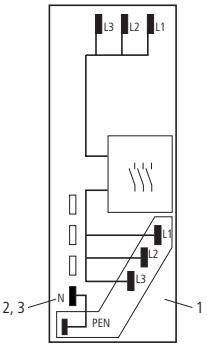


00160306_0

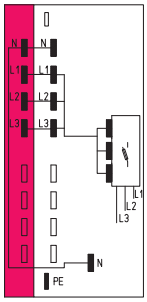
① Connection system: XCSIY and Wöhner
② TN-C-S: Connection PEN to main busbar N = main conductor cross-section
③ Main busbar-N: runs through all system sections of individual N brackets. Position as with main busbar - N of rear-mounted busbars

Sections with PIFT switch fuse units or SL fuse switch disconnectors, vertical, outgoers up to 630 A, rear-mounted busbars

Overview of circuit types/network types for xEnergy Main with rear-mounted XF busbar + SSL (SL)

TN-S	TN-S	TN-C	TN-C-S

A13-45



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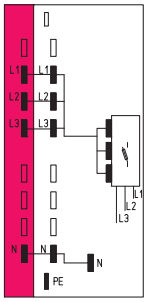

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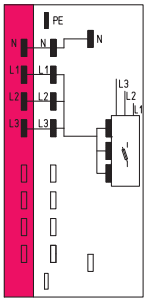

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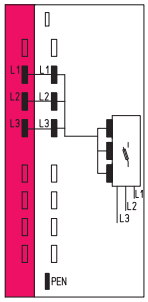

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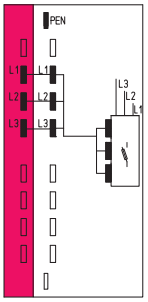

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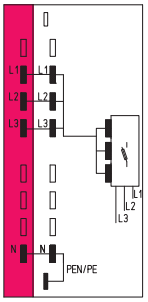

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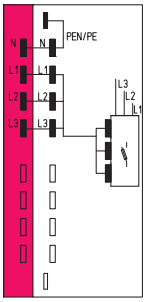

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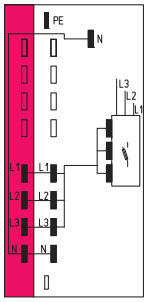

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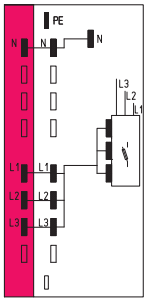

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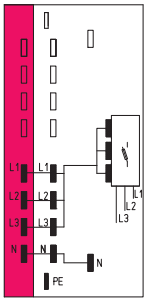

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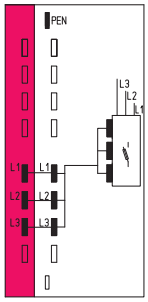

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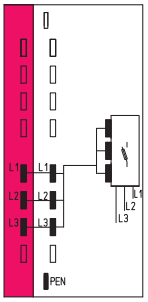

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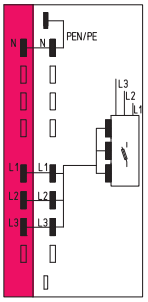

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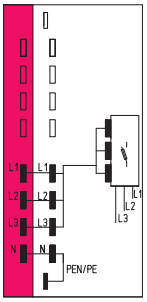
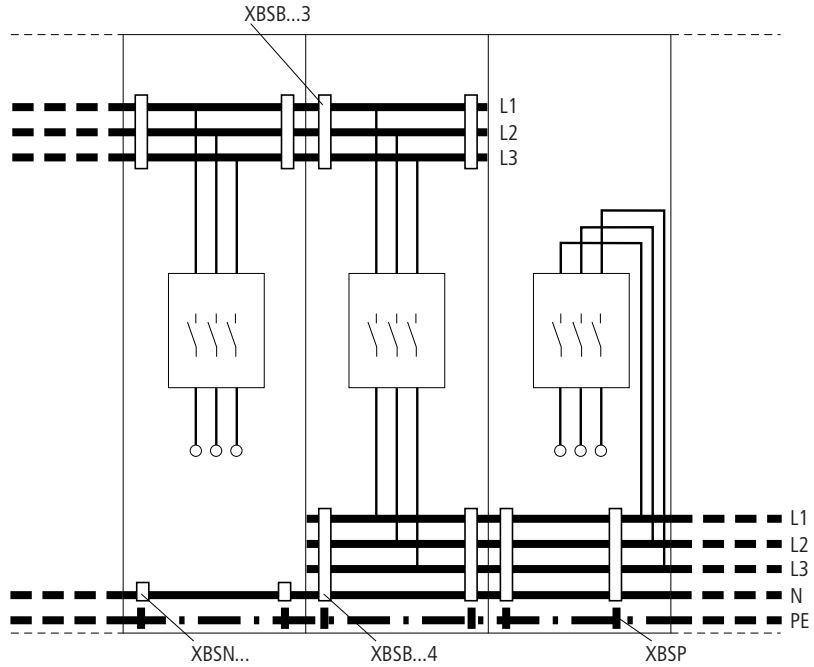


xEnergy_Schaltungsarten_SL

For 5000 A, the red-coloured parts are required in addition.

Design example of rear-mounted busbars for section combinations with two incoming supplies and a coupling for TN-S-networks, 3-pole circuit



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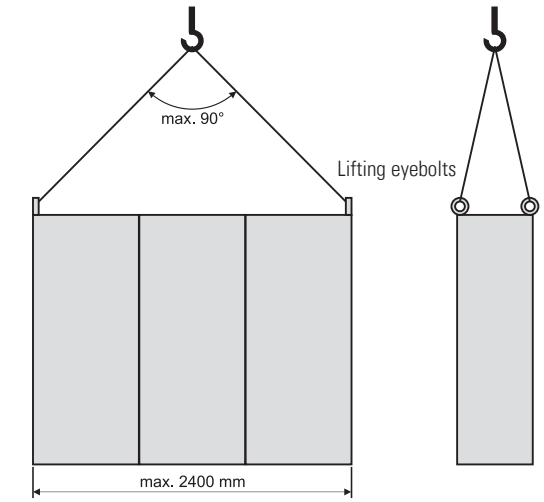
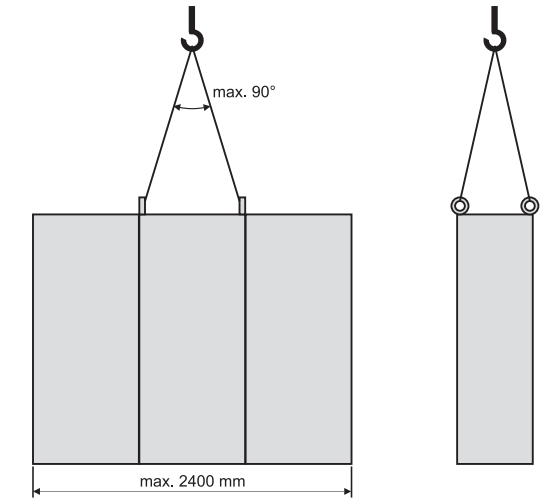
Transport examples for switchboard combinations

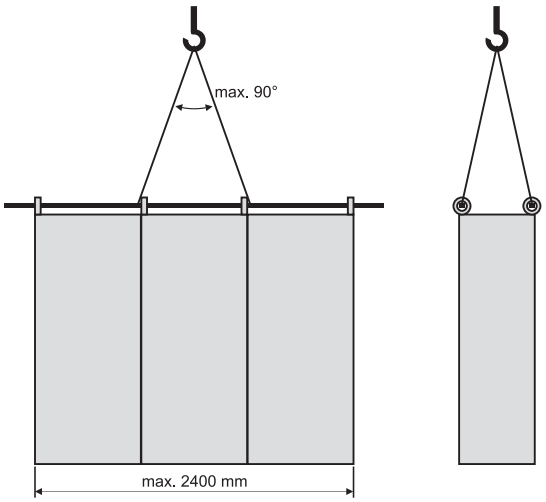
Transport examples for switchboard combinations

A switchboard combination assembled with connection kits that we provide can only be transported if 4 lifting eyebolts are used as shown in the examples below. The angle of the transport ropes at the suspension point should not exceed 90°.
The width of a combination should not exceed 2400 mm.

Max. 1000 kg.





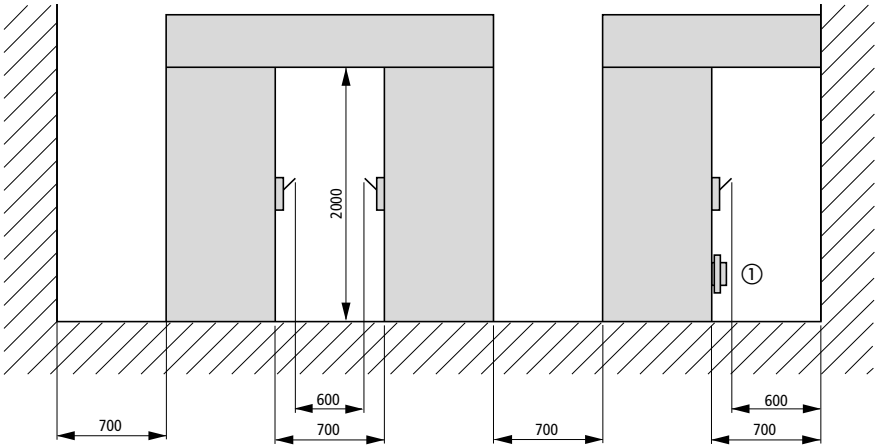


Transp_Schrankkombi

Recommendation:
Fully equipped, copper-carrying sections should be individually transported.

Operation and maintenance gangways within switchgear assemblies

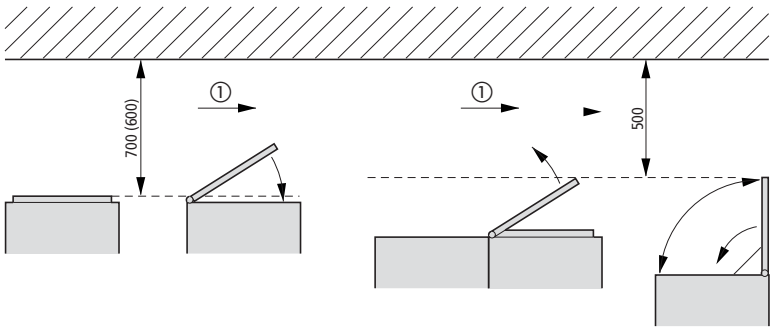
The minimum width for operation and maintenance gangways of switchgear assemblies is 700 mm, the minimum headroom under the panelling is 2000 mm. If a lift truck is used for exchanging circuit breakers, gangway dimensions must be taken into account during the design stage.



① Drawer unit in disconnected position

Systems for 5000 A rated current at the main busbar (depth = 1000 mm) must allow for access from the rear. A minimum clearance of 700 mm to the nearest wall or to the next cabinet must be respected so as to ensure an uncomplicated setup of the system and the correct execution of service jobs.

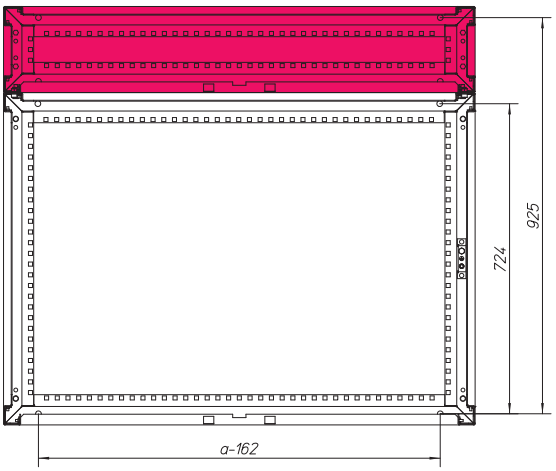
Doors of a switchgear assembly should be arranged in a way that they close in the direction of the emergency exit route. With a different arrangement, a free minimum clearance of 500 mm must be provided for. If switchgear combinations are set up opposite each other, it is not necessary to anticipate that the doors on both sides are open at the same time.



① Direction of the emergency exit route

Further in-depth information

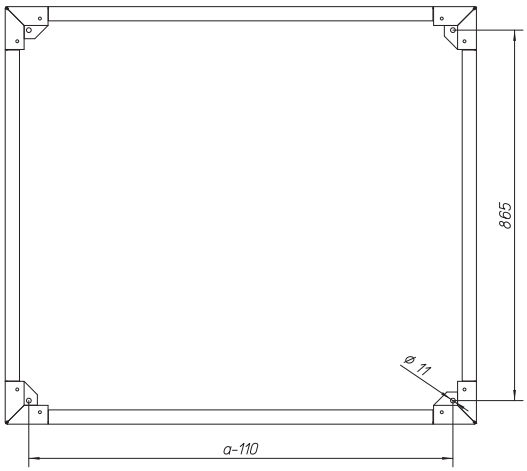
Bottom view of distribution sections



For 5000 A, the red-coloured parts are required in addition.

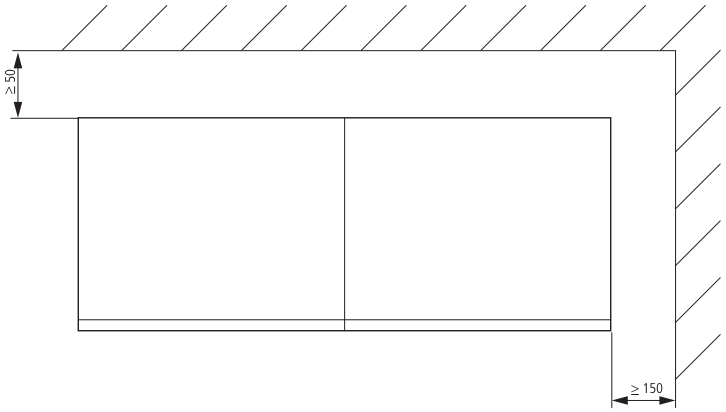
a = Section width
Section width: 425, 600, 800, 850, 1000, 1100, 1200 and 1350 mm
Section depth with section door: 400, 600, 800 and 1000 (800 + 200) mm
Section depth without section door: 375, 575, 775 and 975

Bottom view of plinth

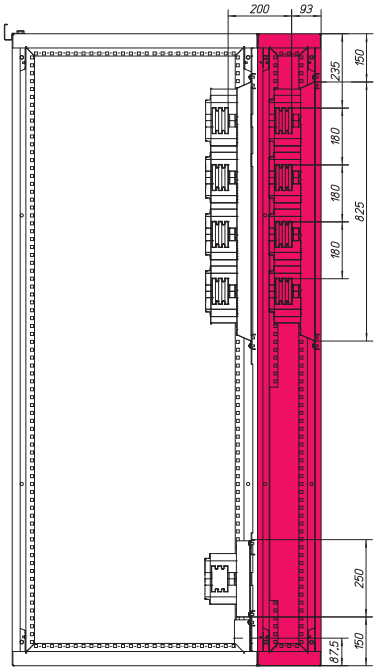


e.g. a (section width) - 162 = distance between the holes for fixing the plinth

Top view of setup (stand-alone)

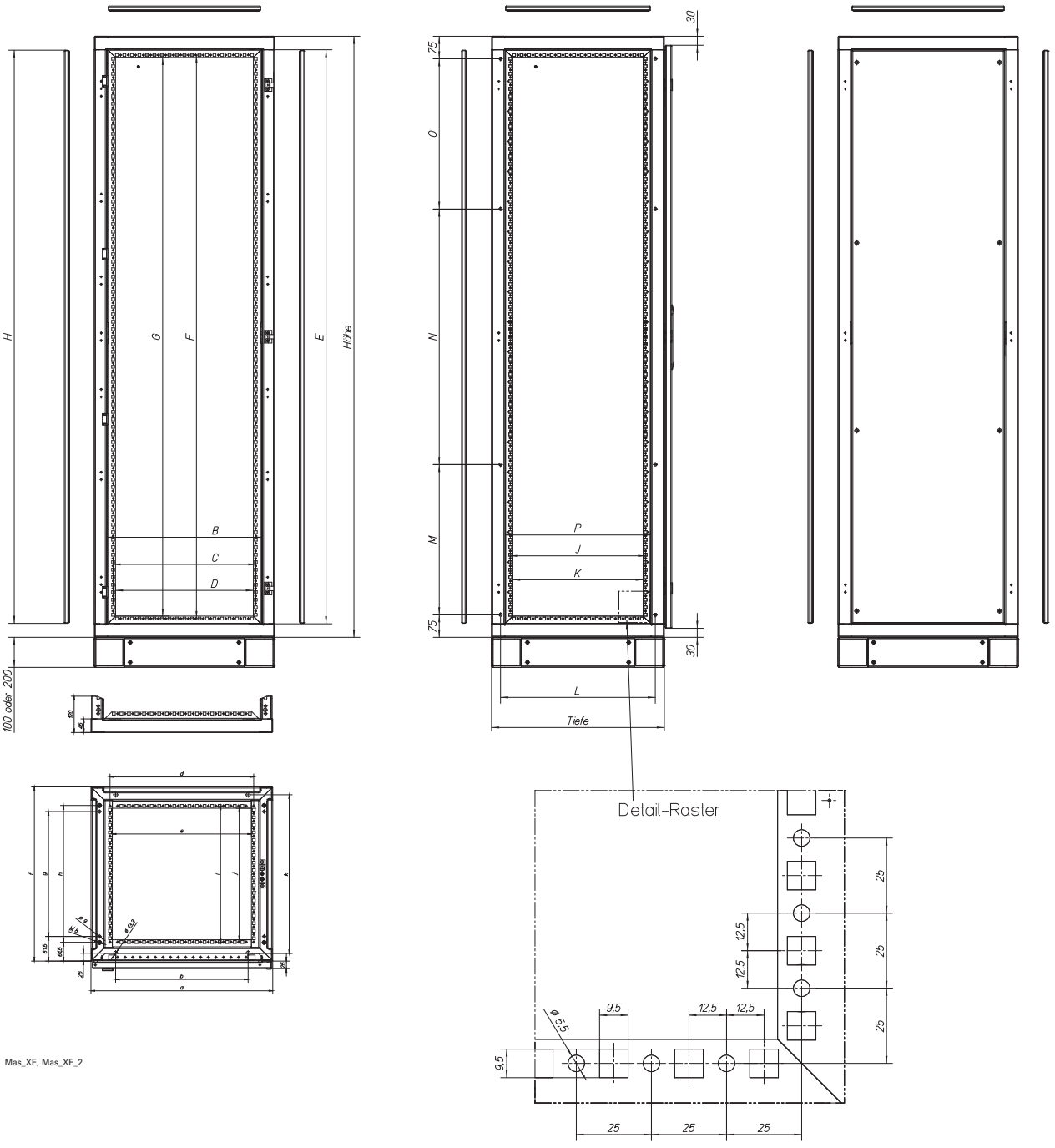


General overview - side view of a section



For 5000 A, the red-coloured parts are required in addition.

xEnergy Main Dimensions



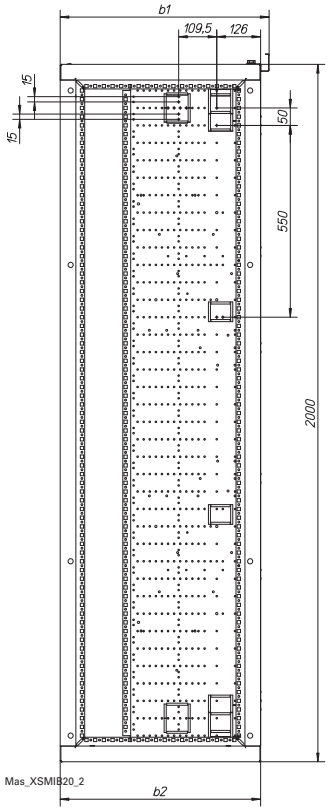
Mas_XE, Mas_XE_2

	a	b	c	d	e
W300	300	138	211	175	160
W425	425	263	336	300	285
W600	600	438	511	475	460
W800	800	638	711	675	660
W850	850	688	761	725	710
W1000	1000	838	911	875	860
W1100	1100	938	1011	975	960
W1200	1200	1038	1111	1075	1060
W1350	1350	1188	1261	1225	1210

	f	g	h	i	j	k
300	276	113	153	150	135	225
400	376	213	253	250	235	325
500	476	313	353	350	335	425
600	576	413	453	450	435	525
800	776	613	653	650	635	725

Double-wing doors are used as of width 1000.

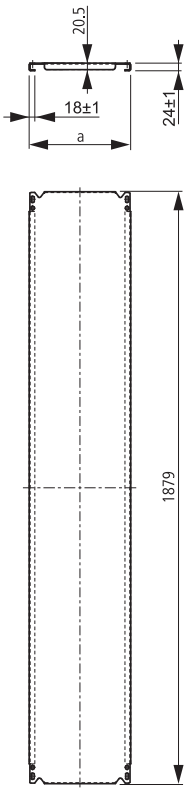
XSMIB20



b1	b2
600	575
800	775

Fitting kit for mounting plates as high as the section

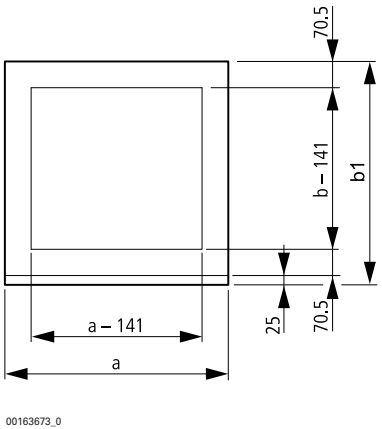
XSMMFB20...



a
322
497
697
897
1097

Section bottom clearance

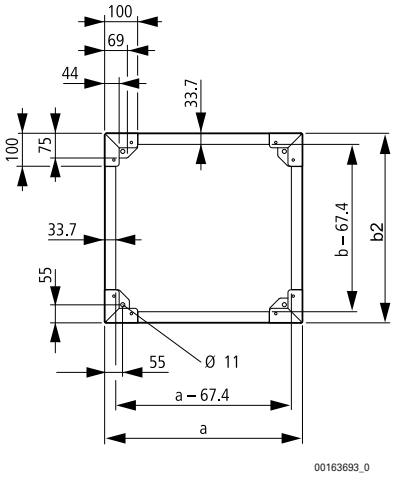
XSFB...



a
425
600
800
850
1000
1100
1200
1350

Floor-fixing of plinth

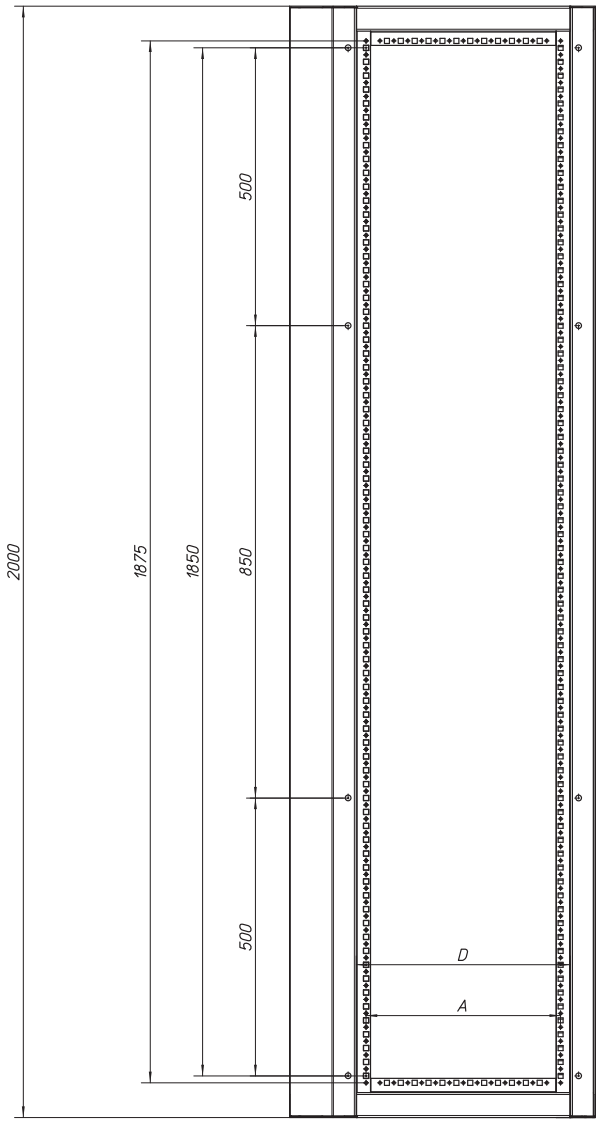
XAP...



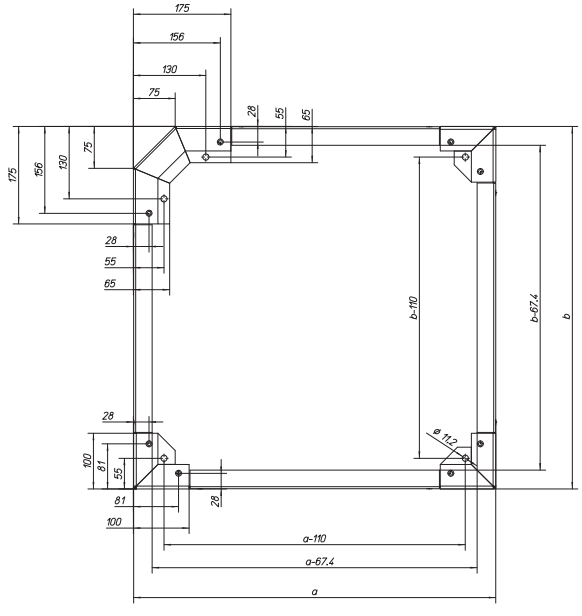
b1	b2
600	575
800	775
1000	975

b1 = Depth with door
b2 = Section depth without door

Corner Frame



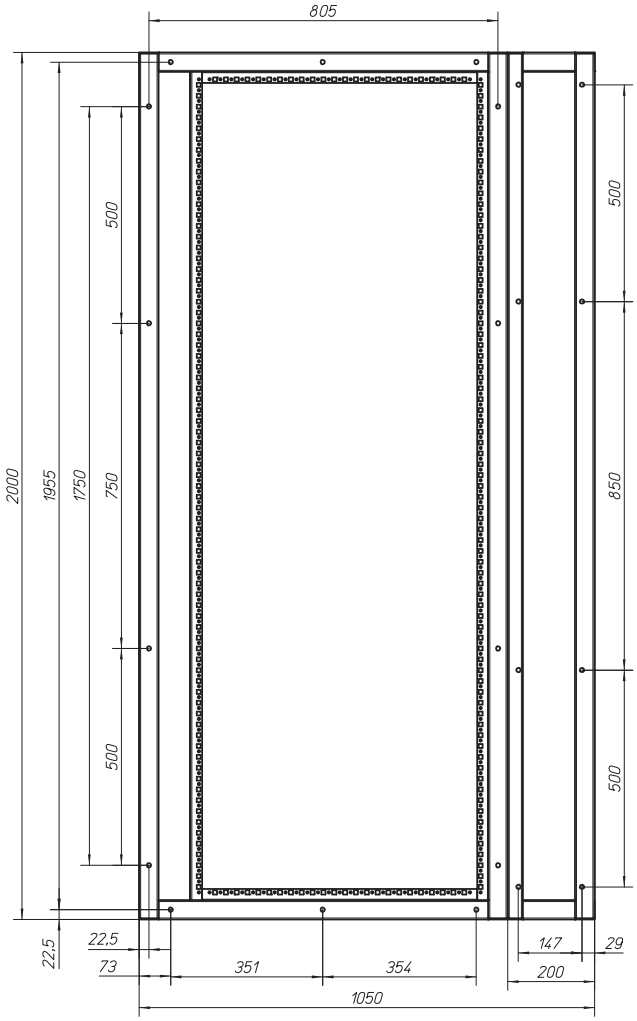
Mas_XVTL_CF

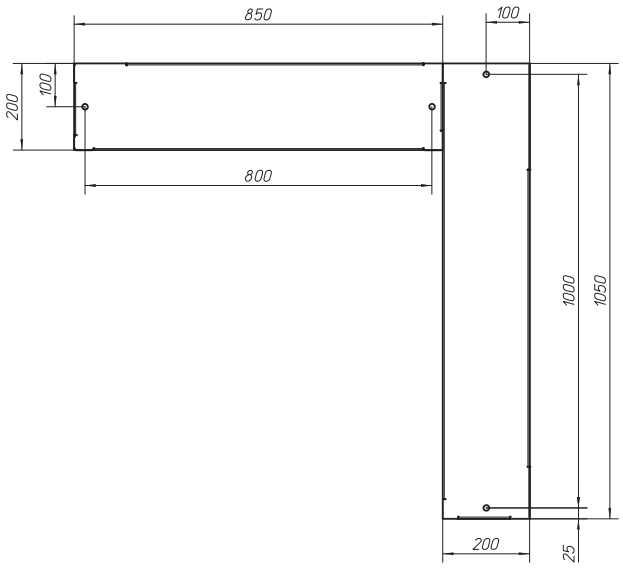


Mas_XAP_Ecksockel

a = 650, 850
b = 650, 850

Corner sections in 5000 A systems

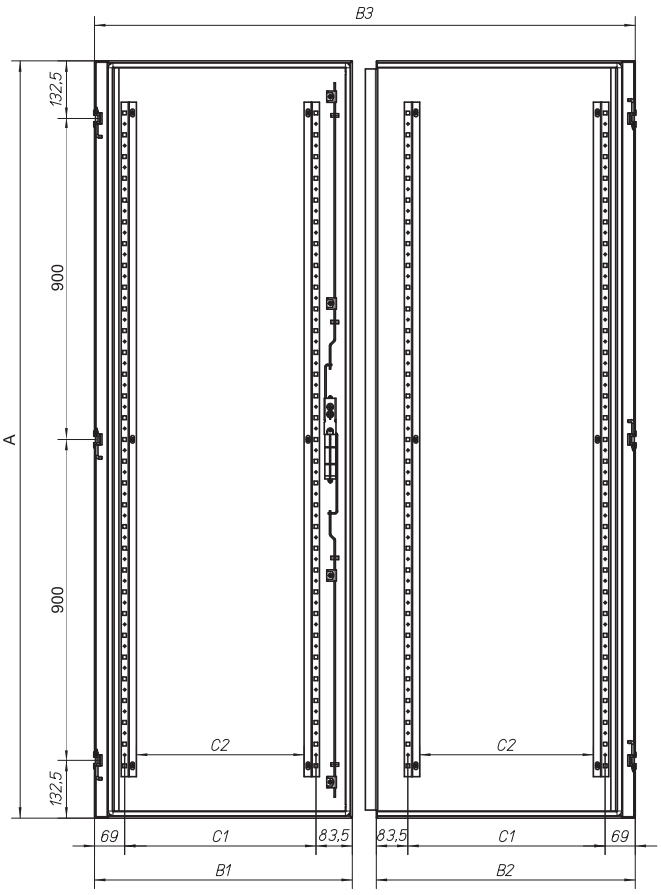




Mas_Eckfeld_5000A

Corner sections in 5000 A systems need to be set up in the same way as standard frames, i.e. with an additional frame of 200 mm depth. This additional frame must be fixed at the rear of a standard corner section of 800 mm depth. The total section depth is 1000 mm.

Doors as high as the section

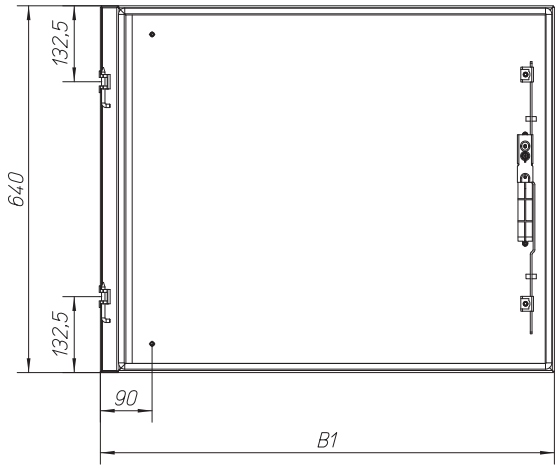


Mas_XSDMC

Width	B1	B2	B3	C1	C2
425	417	-	-	264,5	210,5
600	592	-	-	439,5	385.5
800	792	-	-	639,5	585.5
850	842	-	-	689,5	635.5
1000	992	-	-	839,5	785.5
1000	492	495	992	339,5	285.5
1100	542	545	1092	389,5	335.5
1200	592	595	1192	439,5	385.5
1350	667	670	1342	514,5	460,5

Height	A
2000	1940

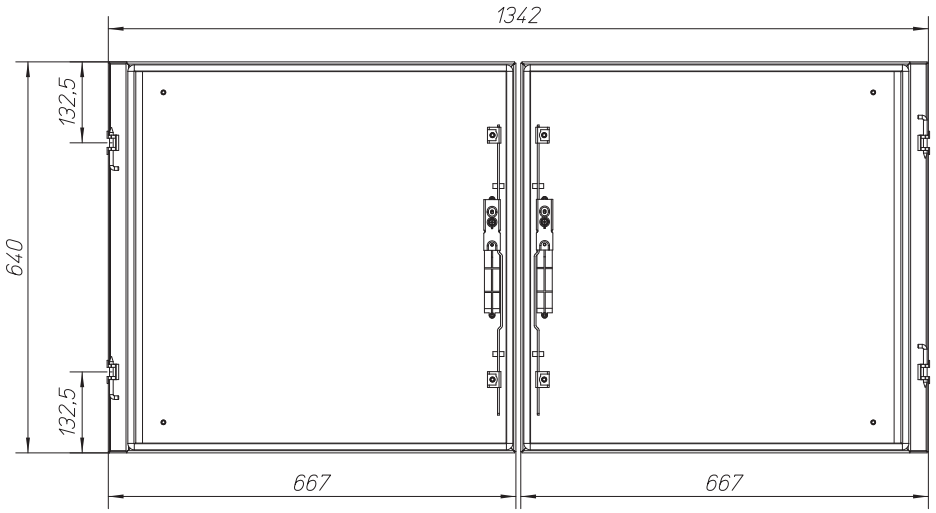
Door to switchgear area - height 640 mm (1/3 door)



Mas_XE_Dritteltuer

Width	B1
425	425
600	600
800	800
1000	1000
1100	1100
1200	1200

Door to switchgear area, divided in the middle, for 1350 mm section width



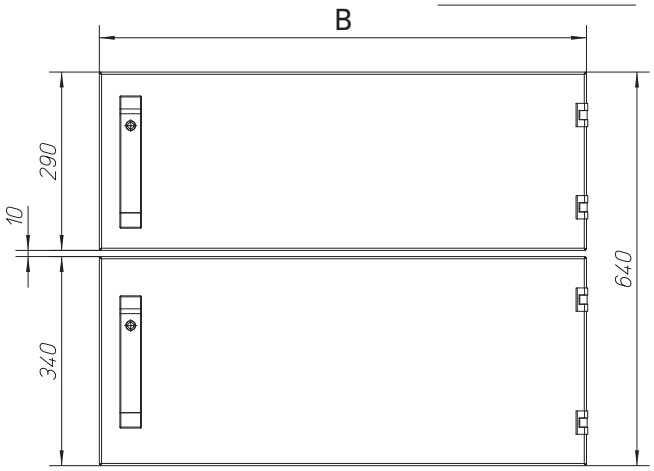
Mas_XE_Tuer_1350_geteilt

Door to switchgear area for main busbar area at the top

in section width of 800 mm only

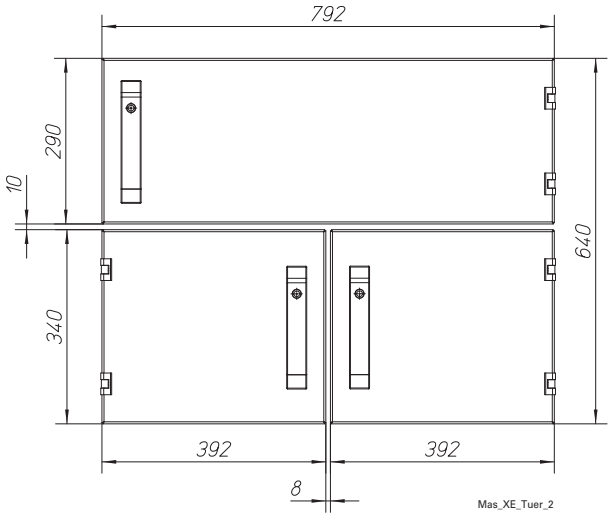
Options:
Two undivided doors as wide as the section
Door H-290mm = Door to main busbar area
Door H-340mm = Door to switchgear area

Width	B
	417
	592
	792



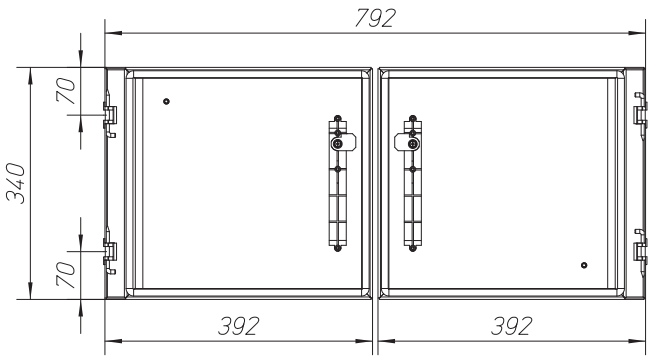
Mas_XE_Tuer_1

One undivided door as wide as the section
A pair of doors, together as wide as the section
Door H-290mm = Door to main busbar area
Door H-340mm = Door to switchgear area

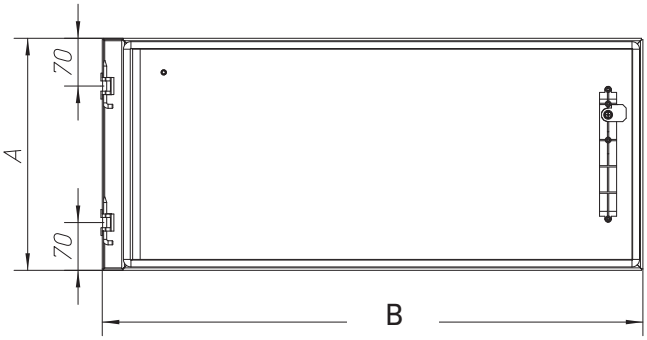


Mas_XE_Tuer_2

Detailed drawings of the doors to the switchgear area



Mas_XE_Tuer_Detail_1



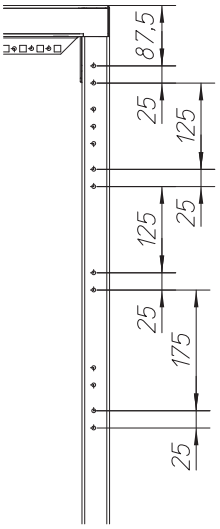
Height	A
	290
	340

Width	B
	417
	592
	792

Mas_XE_Tuer_Detail_2

Drilling template for the hinges

at the frame stand



Mas_XE_Bohrplan_Scharnier

Passive Arc Fault Protection according to IEC-TR61641

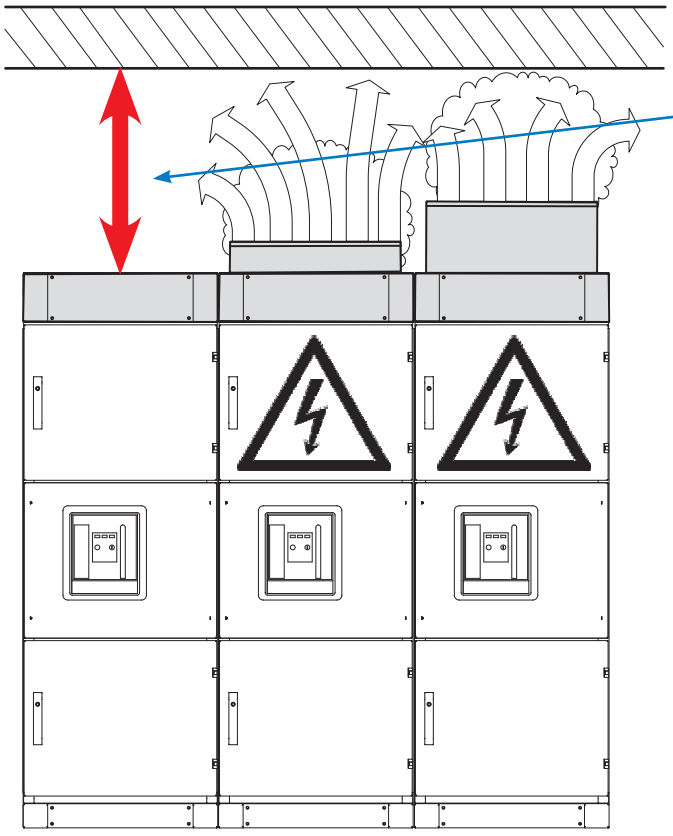
Tested according to IEC/TR61641 in combination with a rear-mounted main busbar.

Technical data

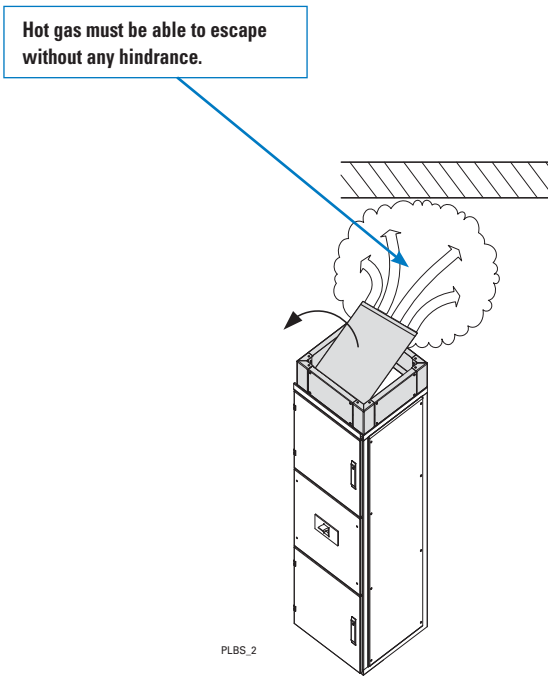
Rated voltage	U_e	415 V	480 V
Criterion		1-6	1-5
Rated insulation voltage	U_i	1000 V	1000 V
Rated frequency		50/60 Hz	50/60 Hz
Uninfluenced current allowed in arc fault conditions	I_{parc}	65 kA	35 kA
Allowed burning duration of an arc fault	t_{arc}	300 ms	300 ms
Degree of pollution		3	3
Degree of protection		IP55[1)]	IP55[1)]
Internal separation		Form 4	Form 4
Arc-fault-free zone in the cable connection system		yes	no

Building-related pre-requisites:

The entire concept of protecting people is based on the idea of making the pressure due to hot gas developing in the cabinet during an arc fault escape through the top. This is why it is compulsory to have sufficient room height and/or space between the cabinet and the ceiling or other superstructures to ensure that the pressure relief covers can open completely. The minimum distance between the upper edge of the cabinet and the ceiling (or the deepest element of the building) is at least the depth of the cabinet. This is a pre-requisite for the gas to escape from the cabinet without hindrance.



PLBS_1



PLBS_2

Note [1)] Only in combination with outstanding roof flap. With top plate in old design, max IP rating is IP30.

Passive Arc Fault Protection according to IEC-TR61641

In order to meet Employees' Safety in the Workplace requirements, criteria 1-5 must be complied with.

Criterion 1:

a) Ventilations:

Ventilation slots in doors, rear panels, front, floor and top panels are not allowed in order to prevent hot gas from escaping towards people. This is to make sure that hot gas can be guided towards the top panel. The increased pressure building up during an arc fault blows off the PVC screws in the arc fault cover and all the energy set free in the form of hot gas can escape through the top panel.

No ventilation possible



VT09609

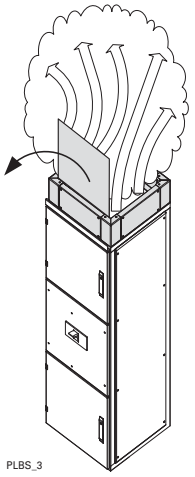
All panels must be without ventilation slots



VT09509

b) Arc fault cover:

The special cover plate is fixed with hinges at the front, and with plastic screws at the back. The increased pressure building up during an upcoming arc fault will tear off the screws and open the cover for the gas to escape. The hinges of the arc fault cover must always be fixed at the front of the cabinet in order not to guide the gas towards people who might be in front of the cabinet.



PLBS_3

c) Properly secured doors - tailhooks:

To make sure that the doors stay closed in case of an arc fault it is necessary to replace the closure hooks of doors (by default supplied in plastic version) by a reinforced metal version. The same applies for the rod guides of the control lever. These are also to replace from plastic to metal version.

Reinforced locking hooks and rod guides come as an accessory with the arc fault cover and do not need to be ordered separately.



vt12116

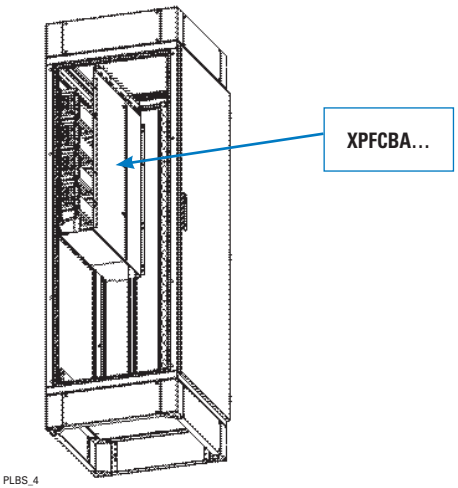


vt12016

Passive Arc Fault Protection according to IEC-TR61641

d) Internal separation:

In general sections where the main busbar is covered (by equipment) over the entire section width, the main busbar separation needs to be replaced (i.e. the standard article = XPFCB.. needs to be replaced by a separation suitable for arc fault protection = XPFCBA..). This separation makes sure that the pressure caused by an arc fault can escape through the arc fault protection cover.

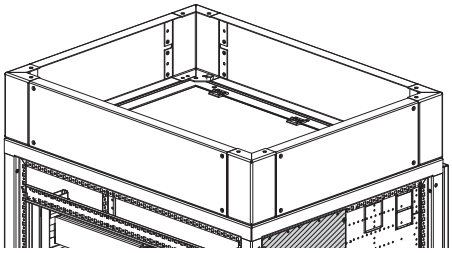


PLBS_4

Criterion 2: No system elements that might open or be blown off

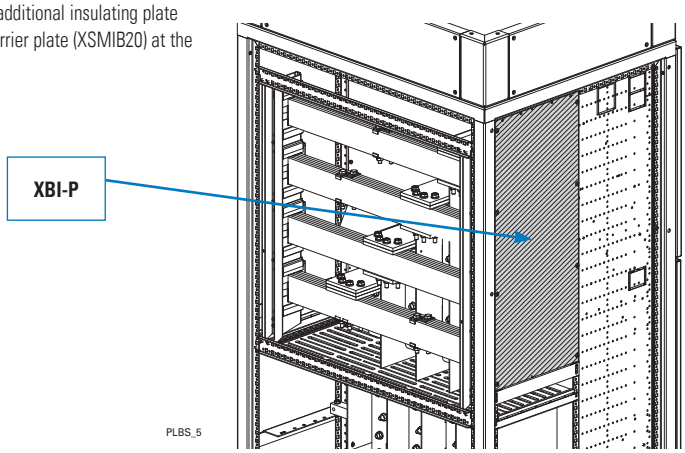
Plinth

In addition it is necessary to fix a plinth at the top of the cabinet to make sure that in case of an arc fault (explosion) the arc fault protection cover does not open any further than 90°. This is to avoid any further hazard due to a suddenly opening cover for people who might be positioned in front of the cabinet. Of course it is not allowed to fix any other system-specific, individual non-secured elements. Doors are secured through Criterion 1.


PLBS_5

Criterion 3: No holes in the casing due to the effect of an arc fault (burning holes)

To make sure that in case of an arc fault no gas can escape through the side panels, an additional insulating plate needs to be fixed (XBI-P). This plate will be screw-fixed to the frame and the universal carrier plate (XSMIB20) at the height of the main busbar (height profile). In front of an XAW… side panel respectively.



PLBS_5

Criterion 4: No catching fire of vertically positioned indicators

The indicators vertically positioned during the test must not catch fire due to escaping gas. Pre-requisite for this not to happen is that there are no ventilation slots or other openings in the panels or in the outer skin. Gaps or cracks must not open up during an upcoming arc fault. So the re-inforced tailhooks are there to prevent them.

An additional function of the plinth at the top is also to guide the escaping hot gas towards the "top". This also ensures that the indicators cannot catch fire and provides the best possible protection for people.

Passive Arc Fault Protection according to IEC-TR61641

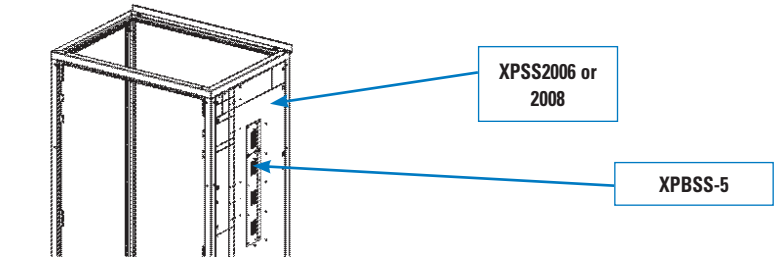
Criterion 5:

The protective conductor circuit for parts of the casing that can be touched is still fully functional.

System protection is provided for if Criteria 1 to 5 plus Criterion 6 are complied with.

Criterion 6:

The arc fault is limited to the defined area within the switchgear assembly and there is no new catching fire possible in the adjacent areas within the switchgear assembly. This can be achieved by adding an additional separation (XPBSS-5) in combination with the section-to-section separation (XPSS2006 or 2008) between the individual sections. This will make sure that adjacent sections cannot be damaged or affected by an arc fault.

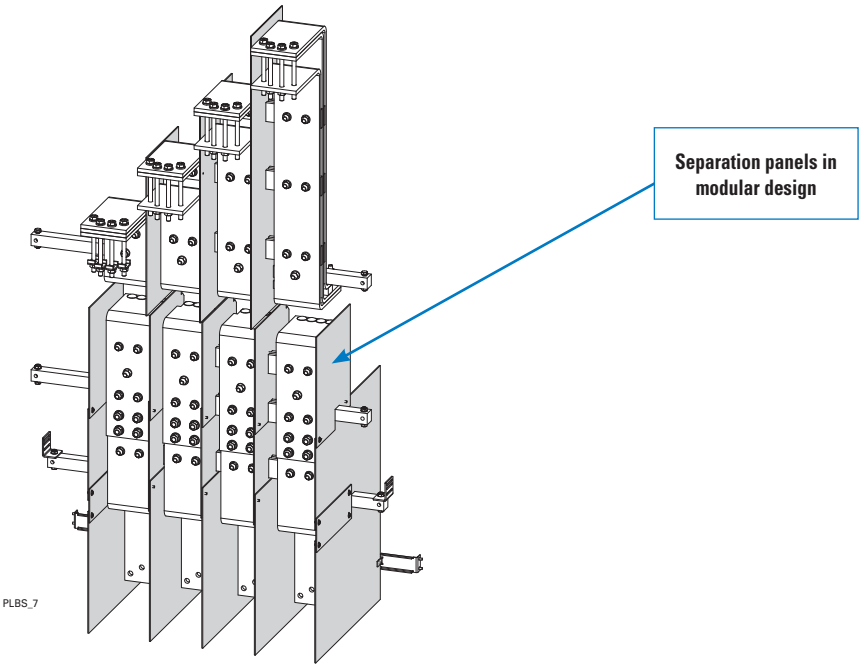


PLBS_6

Arc-fault-free zone at 415 V

This is part of a power circuit within a switchgear assembly where it is not possible to use an ignition wire without destroying the insulation material of the wires.
In our system arc-fault-free zones are limited to XP sections. To be able to make these sections arc-fault-free you need to install insulation plates (XPIX16CC06, XPIX40CC06, XPIX40CC08, XPI63CC10) between the individual Cu conductors.

These insulation plates are designed in a modular way and can be retrofitted (after copper-plating incl. stabilsors). These additional separation panels need to be used with circuit breakers IZMX16 and a section depth of 600mm, with IZMX40 and section depths of 600 and 800 mm as well as with IZM63 and a section depth of 1000 mm.



PLBS_7

Earthquake-safety for xEnergy Main

Test according to the following standards:

IEC 60068-3-3: Level AG2 and AG5
UBC-Code: Zone 4
IEEE Std 344: class 1E (OBE @ AG2 and SSE @ AG5)
IEEE Std. 693: moderate Level (0,25g) and high Level (0,5 g)

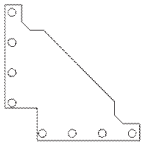
bei fortwährender Funktion während eines Bebens.

Description of how a bracket set works (XASMS/ Art.no.: 171739)

To reinforce a casing/frame so as to make it resistant to extreme strain that may occur during an earthquake it is necessary to use additional reinforing brackets (see table below). The required brackets are combined in a set which can be used per section, irrespective of the type of section (XP, XF, XR, XW, XG). Depending on the configuration of the section, the brackets may/must be fixed at different positions.

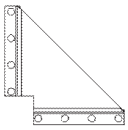
Overview of the different brackets:

Version 1



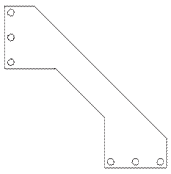
Erdbeb_1

Version 2



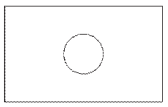
Erdbeb_2

Version 3



Erdbeb_3

Shim



Erdbeb_4

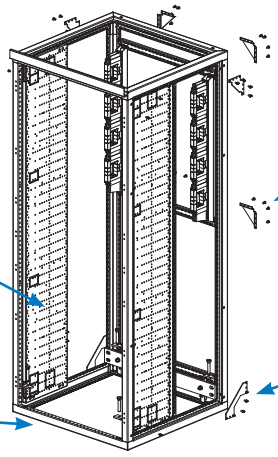
Explanation

As a general rule, it depends on the selected basic type and on the configuration of the section where and which brackets should be fixed. This depends on the position of the main busbar, of N, PEN, and 2 x main busbar coupling sections ...

Please refer to the instructions in IL-XASMS-156 to see which type of bracket needs to be used with the different configurations.

Where multi-functional panels are used, it is not necessary to fix any additional brackets at the front. The required stability is provided by the side panels.

No plinth possible/permitted



Erdbeb_5

Which brackets need to be used depends on the configuration of the section: Basic type, position of the main busbar, number of main busbars used, form of internal separation, …..

Especially designed re-inforce-ment brackets to allow building up on top of PE/PEN.

Explanation of the cabinet front

As a general rule, it is not necessary to mount additional brackets at the cabinet front with configurations that include fitting kits with universal mounting plates on the side. For applications of this kind the required stability is provided by the lateral universal carrier plates (XSMIB20 with XP or the different multi-functional walls of outgoing sections in Form 4). With general sections (XG) and all variants of power/outgoing sections in Form 2, it is compulsory to fix reinforcement brackets (version 1) in the front corners. An exception to this rule is when the PE/PEN conductor is mounted at the front of the section. In this case please use „Version 3" brackets. These brackets have a special design/shape which allows the PE/PEN conductor to be inserted without any problem.

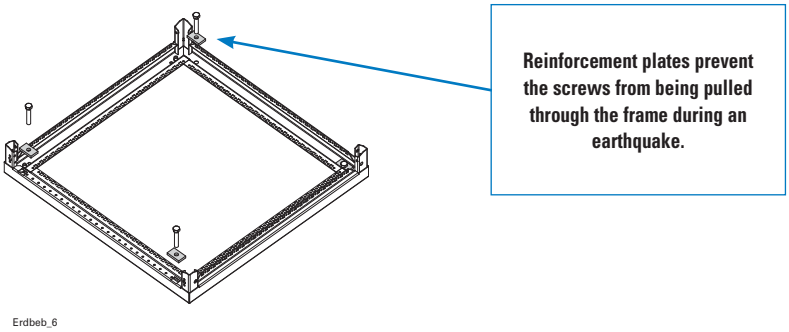
Earthquake-safety for xEnergy Main

Plinth

In general, do not fit plinth for cabinets wich need earthquake security!

Fixing of the cabinets

Cabinets must be secured against slipping or unintended moving at their location. For this purpose it is necessary to screw-fix the cabinets on the floor. To be able to fix the cabinet frame sufficiently on the floor, please use special shims between the frame and the fixing screw. These shims make sure that the fixing screws cannot be pulled through the enclosure in the event of an earthquake (enlargement/reinforcement of the contact surface of the fixing screws); they are also included in the reinforcement brackets set.

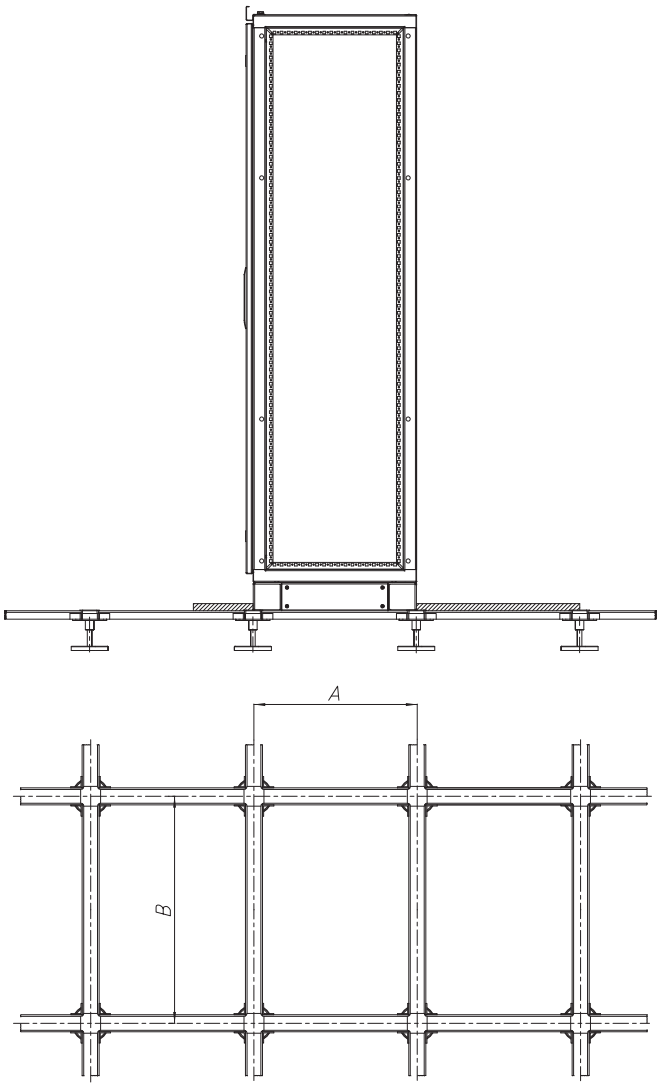


Erdbeb_6

Setup instructions for xEnergy Main

If the xEnergy Main system is set up on a paved floor (no false floor), tolerances of the floor must not exceed +/-2 mm. On floors with an unevenness of >2 mm you need to use I or U-shaped profiles to provide for an even surface. Ideally these profiles should be integrated in the floor beforehand.

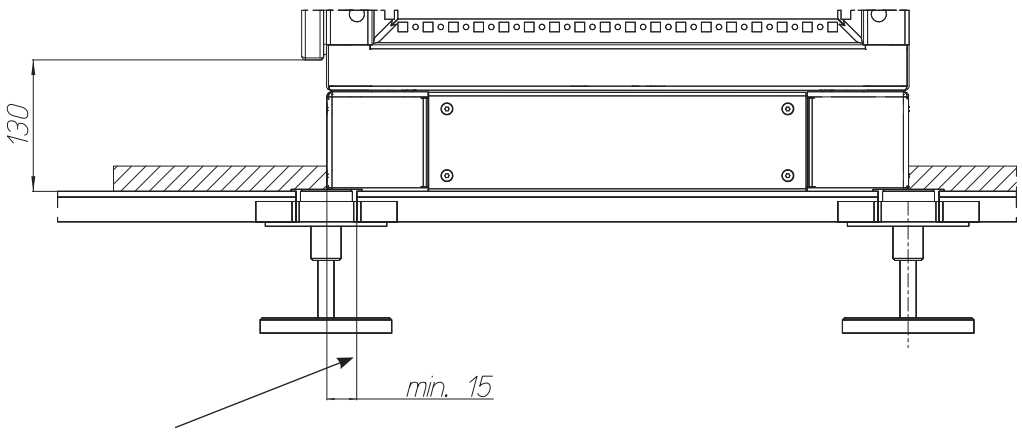
If false floors are installed on site, they need to be installed as shown in the drawing below. Please note that the cabinets need to be equipped with a base plinth (see drawing) if the thickness of the false floor panel is >20 mm.



A =	375 mm
	575 mm
	775 mm

B =	425 mm
	600 mm
	800 mm
	850 mm
	1000 mm
	1100 mm
	1200 mm
	1350 mm

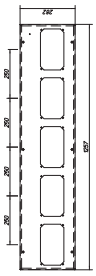
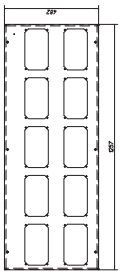
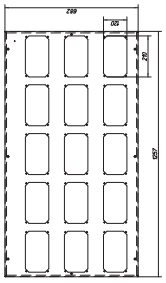
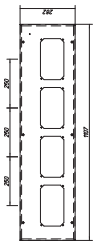
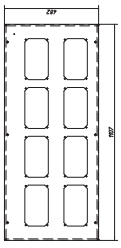
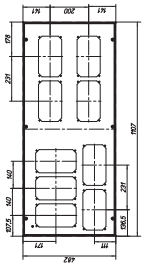
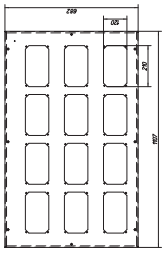
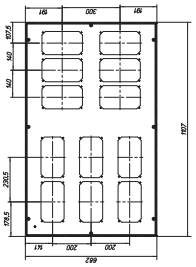
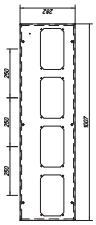
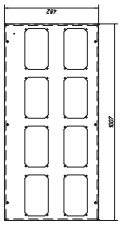
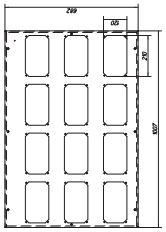
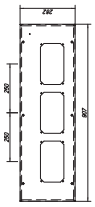
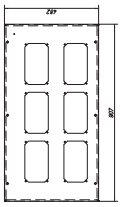
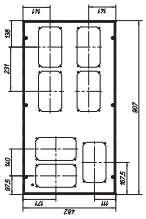
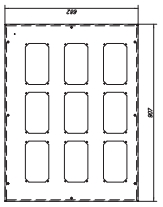
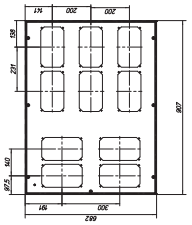
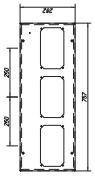
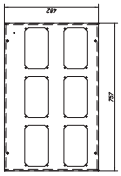
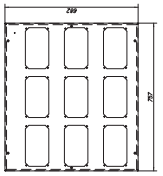
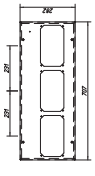
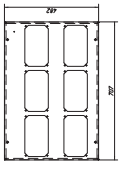
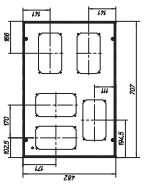
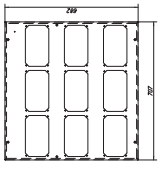
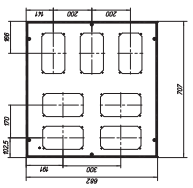
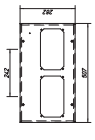
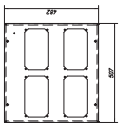
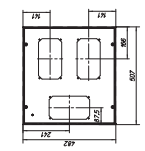
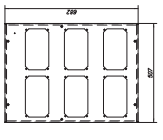
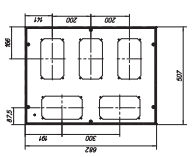
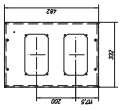
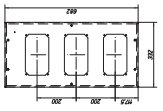
Doppelboden



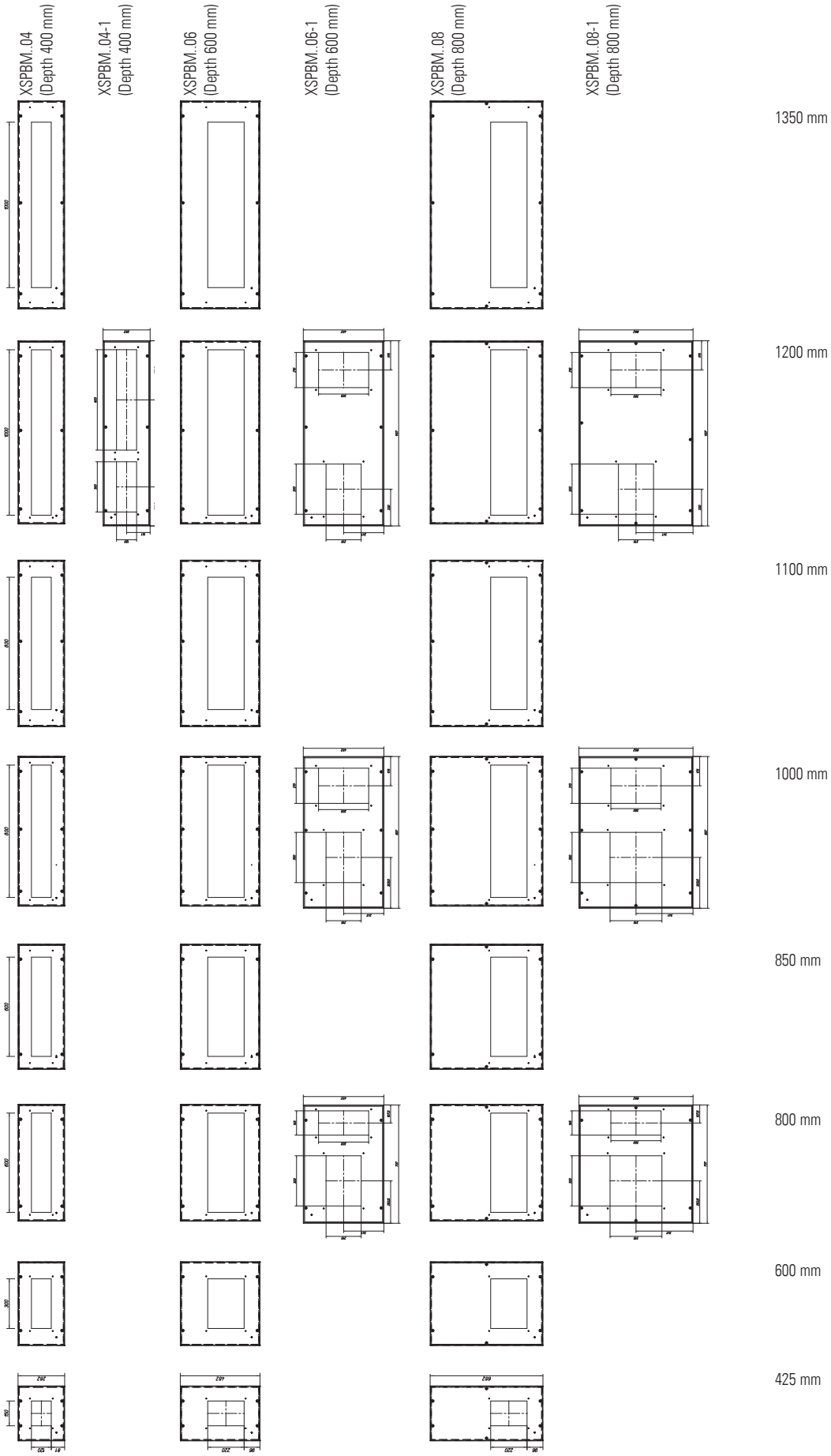
Doppelboden_Detail

- min. surface standing on the framework bottom = = 15 mm²
- when using false floor panels of a thickness >20 mm, cabinets must be equipped with a base plinth to make sure that the doors open without any problems

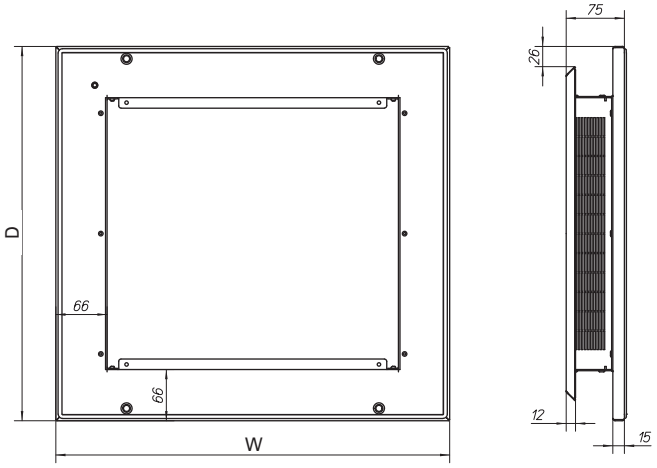
XSPTF Top/Bottom Cover

XSPTF..04 (Depth 400 mm)	XSPTF..06 (Depth 600 mm)	XSPTF..06-XF (Depth 600 mm)	XSPTF..08 (Depth 800 mm)	XSPTF..08-XF (Depth 800 mm)	
					1350 mm
					1200 mm
					1100 mm
					1000 mm
					850 mm
					800 mm
					600 mm
					425 mm

XSPBM Top/Bottom Cover (multi-part)



XAD Top Cover



MAS_XAD

Depth	Width	W	D
400	**400**	332	282
400	**600**	507	282
400	**800**	707	282
400	**850**	757	282
400	**1000**	907	282
400	**1100**	1007	282
400	**1200**	1107	282
400	**1350**	1257	282
600	**400**	332	482
600	**600**	507	482
600	**800**	707	482
600	**850**	757	482
600	**1000**	907	482
600	**1100**	1007	482
600	**1200**	1107	482
600	**1350**	1257	482
800	**400**	332	682
800	**600**	507	682
800	**800**	707	682
800	**850**	757	582
800	**1000**	907	682
800	**1100**	1007	582
800	**1200**	1107	682
800	**1350**	1257	582

XE Bottom panels

XSPBAC... = without foam



XE_Bodenplatte_1

Available in 2 versions:

suitable for section width

XSPBAC..01

Type
Section width
Flange size

Section width can be selected from 425-1350 mm

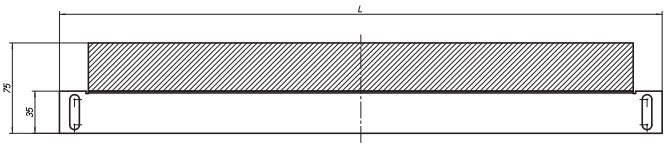
suitable for section depth

XSPBAC01..

Type
Flange size
Section depth

Section depth can be selected from 400-800 mm

XSPBA... = with foam



XE_Bodenplatte_2

Available in 2 versions:

suitable for section width

XSPBA..01

Type
Section width
Flange size

Section width can be selected from 425-1350 mm

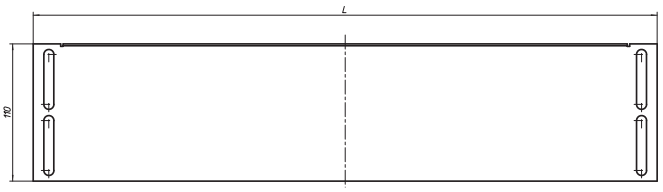
suitable for section depth

XSPBA01..

Type
Flange size
Section depth

Section depth can be selected from 400-800 mm

XSPBAC... = without foam



XE_Bodenplatte_3

Available in 2 versions:

suitable for section width

XSPBAC..02

Type
Section width
Flange size

Section width can be selected from 425-1350 mm

suitable for section depth

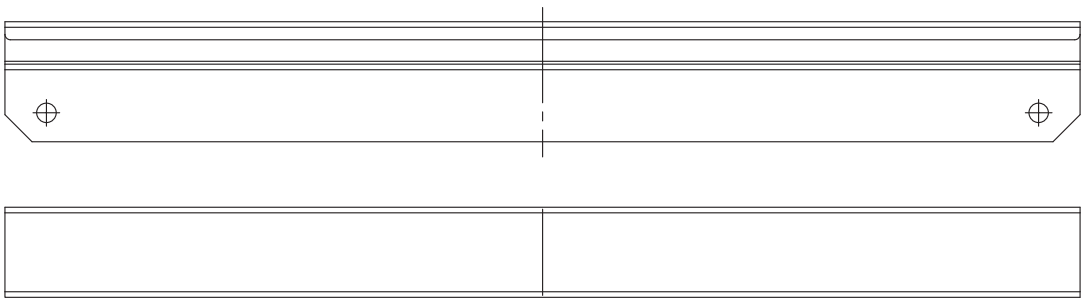
XSPBAC02..

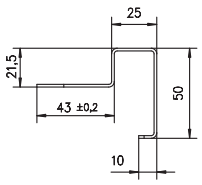
Type
Flange size
Section depth

Section depth can be selected from 400-800 mm

(Width 700 is for closing switchgear areas of a PIFT section)

XSFDR Blue Design Strip

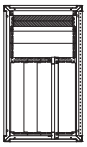
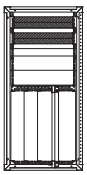
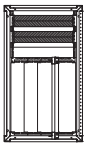
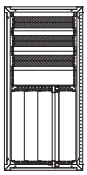




Mas_SVTL_GBS

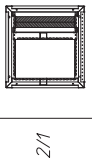
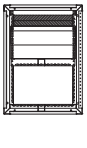
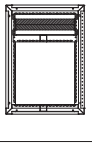
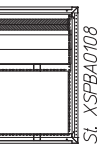
XE Bottom panels, divided insertion

Für Einbausatz SASIL Bedienung von außen

Einf.	BxT = 1000x600	BxT = 1200x600
2/1	Modulbreite 600 Anschlussr.400  2 St. XSPBA0106 2 St. XSPBAC0206 4 St. XSPBAC0702	Modulbreite 600 Anschlussr.600  2 St. XSPBA0106 4 St. XSPBAC0206 4 St. XSPBAC0702
4/2	Modulbreite 600 Anschlussr.400  4 St. XSPBA0106 1 St. XSPBAC0206 4 St. XSPBAC0702	Modulbreite 600 Anschlussr.600  4 St. XSPBA0106 3 St. XSPBAC0206 4 St. XSPBAC0702
6/3		Modulbreite 600 Anschlussr.600 6 St. XSPBA0106 1 St. XSPBAC0206 4 St. XSPBAC0702

Einf.	BxT = 1000x800	BxT = 1200x800
2/1	Modulbreite 600 Anschlussr.400 2 St. XSPBA0108 2 St. XSPBAC0208 4 St. XSPBAC0702	Modulbreite 600 Anschlussr.600 2 St. XSPBA0108 4 St. XSPBAC0208 4 St. XSPBAC0702
4/2	Modulbreite 600 Anschlussr.400 4 St. XSPBA0108 1 St. XSPBAC0208 4 St. XSPBAC0702	Modulbreite 600 Anschlussr.600 4 St. XSPBA0108 3 St. XSPBAC0208 4 St. XSPBAC0702
6/3		Modulbreite 600 Anschlussr.600 6 St. XSPBA0108 1 St. XSPBAC0208 4 St. XSPBAC0702

Für Einbausatz Leistungsschalter

Einf.	BxT = 600x800	BxT = 800x600	BxT = 800x800	BxT = 1000x600	BxT = 1000x800
2/1	Modulbreite 425 Anschlussr.200-175  2 St. XSPBA0108	Modulbreite 425 Anschlussr.400-375  2 St. XSPBA0106 2 St. XSPBAC0206	Modulbreite 425 Anschlussr.400-375  2 St. XSPBA0108 1 St. XSPBAC0208	Modulbreite 600 Anschlussr.200-175  2 St. XSPBA0106	Modulbreite 600 Anschlussr.200-175 2 St. XSPBA0108
4/2		Modulbreite 425 Anschlussr.400-375 4 St. XSPBA0106 1 St. XSPBAC0206	Modulbreite 425 Anschlussr.400-375 4 St. XSPBA0108 1 St. XSPBAC0208	Modulbreite 600 Anschlussr.400-375  4 St. XSPBA0106 **1 St. XSPBAC0206**	Modulbreite 600 Anschlussr.400-375  4 St. XSPBA0108 **1 St. XSPBAC0208**
6/3				Modulbreite 600 Anschlussr.400-375 6 St. XSPBA0106	Modulbreite 600 Anschlussr.400-375  6 St. XSPBA0108

XE_Boden_Einf_geteilt

XE Bottom panels, insertion width

Einf.	BxT = 425x400
4/2	4 St. XSPBA0401
2/1	2 St. XSPBA0401 1 St. XSPBAC0402
blind	3 St. XSPBAC0402

Einf.	BxT = 425x600
6/3	6 St. XSPBA0401 1 St. XSPBAC0402
4/2	4 St. XSPBA0401 2 St. XSPBAC0402
2/1	2 St. XSPBA0401 3 St. XSPBAC0402
blind	5 St. XSPBAC0402

Einf.	BxT = 425x800
6/3	6 St. XSPBA0401 3 St. XSPBAC0402
4/2	4 St. XSPBA0401 4 St. XSPBAC0402
2/1	2 St. XSPBA0401 5 St. XSPBAC0402
blind	7 St. XSPBAC0402

Einf.	BxT = 600x400
4/2	4 St. XSPBA0601
2/1	2 St. XSPBA0601 1 St. XSPBAC0602
blind	3 St. XSPBAC0602

Einf.	BxT = 600x600
6/3	6 St. XSPBA0601 1 St. XSPBAC0602
4/2	4 St. XSPBA0601 2 St. XSPBAC0602
2/1	2 St. XSPBA0601 3 St. XSPBAC0602
blind	5 St. XSPBAC0602

Einf.	BxT = 600x800
6/3	6 St. XSPBA0601 3 St. XSPBAC0602
4/2	4 St. XSPBA0601 4 St. XSPBAC0602
2/1	2 St. XSPBA0601 5 St. XSPBAC0602
blind	7 St. XSPBAC0602

Einf.	BxT = 800x400
4/2	4 St. XSPBA0801
2/1	2 St. XSPBA0801 1 St. XSPBAC0802
blind	3 St. XSPBAC0802

Einf.	BxT = 800x600
6/3	6 St. XSPBA0801 1 St. XSPBAC0802
4/2	4 St. XSPBA0801 2 St. XSPBAC0802
2/1	2 St. XSPBA0801 3 St. XSPBAC0802
blind	5 St. XSPBAC0802

Einf.	BxT = 800x800
6/3	6 St. XSPBA0801 3 St. XSPBAC0802
4/2	4 St. XSPBA0801 4 St. XSPBAC0802
2/1	2 St. XSPBA0801 5 St. XSPBAC0802
blind	7 St. XSPBAC0802

Einf.	BxT = 1000x400
4/2	4 St. XSPBA1001
2/1	2 St. XSPBA1001 1 St. XSPBAC1002
blind	3 St. XSPBAC1002

Einf.	BxT = 1000x600
6/3	6 St. XSPBA1001 1 St. XSPBAC1002
4/2	4 St. XSPBA1001 2 St. XSPBAC1002
2/1	2 St. XSPBA1001 3 St. XSPBAC1002
blind	5 St. XSPBAC1002

Einf.	BxT = 1000x800
6/3	6 St. XSPBA1001 3 St. XSPBAC1002
4/2	4 St. XSPBA1001 4 St. XSPBAC1002
2/1	2 St. XSPBA1001 5 St. XSPBAC1002
blind	7 St. XSPBAC1002

Einf.	BxT = 1200x600
6/3	6 St. XSPBA1201 1 St. XSPBAC1202
4/2	4 St. XSPBA1201 2 St. XSPBAC1202
2/1	2 St. XSPBA1201 3 St. XSPBAC1202
blind	5 St. XSPBAC1202

Einf.	BxT = 1200x800
6/3	6 St. XSPBA1201 3 St. XSPBAC1202
4/2	4 St. XSPBA1201 4 St. XSPBAC1202
2/1	2 St. XSPBA1201 5 St. XSPBAC1202
blind	7 St. XSPBAC1202

XE_Boden_Einf_breite

XE Bottom panels, insertion depth

Einf.	BxT = 425x400
4/2	 4 St. XSPBA0104 1 St. XSPBAC0104
2/1	2 St. XSPBA0104 2 St. XSPBAC0204
blind	3 St. XSPBAC0204

Einf.	BxT = 425x600
4/2	 4 St. XSPBA0106 1 St. XSPBAC0106
2/1	2 St. XSPBA0106 2 St. XSPBAC0206
blind	3 St. XSPBAC0206

Einf.	BxT = 425x800
4/2	 4 St. XSPBA0108 1 St. XSPBAC0108
2/1	2 St. XSPBA0108 2 St. XSPBAC0208
blind	3 St. XSPBAC0208

Einf.	BxT = 600x400
4/2	 4 St. XSPBA0104 2 St. XSPBAC0204
2/1	2 St. XSPBA0104 1 St. XSPBAC0104 3 St. XSPBAC0204
blind	5 St. XSPBAC0204

Einf.	BxT = 600x600
4/2	 4 St. XSPBA0106 2 St. XSPBAC0206
2/1	2 St. XSPBA0106 1 St. XSPBAC0106 3 St. XSPBAC0206
blind	5 St. XSPBAC0206

Einf.	BxT = 600x800
4/2	 4 St. XSPBA0108 2 St. XSPBAC0208
2/1	2 St. XSPBA0108 1 St. XSPBAC0108 3 St. XSPBAC0208
blind	5 St. XSPBAC0208

Einf.	BxT = 800x400
4/2	 4 St. XSPBA0104 4 St. XSPBAC0204
2/1	2 St. XSPBA0104 1 St. XSPBCA0104 5 St. XSPBAC0204
blind	7 St. XSPBAC0204

Einf.	BxT = 800x600
4/2	 4 St. XSPBA0106 4 St. XSPBAC0206
2/1	2 St. XSPBA0106 1 St. XSPBCA0106 5 St. XSPBAC0206
blind	7 St. XSPBAC0206

Einf.	BxT = 800x800
4/2	 4 St. XSPBA0108 4 St. XSPBAC0208
2/1	2 St. XSPBA0108 1 St. XSPBAC0108 5 St. XSPBAC0208
blind	7 St. XSPBAC0208

Einf.	BxT = 1000x400
4/2	 4 St. XSPBA0104 6 St. XSPBAC0204
2/1	2 St. XSPBA0104 7 St. XSPBAC0204
blind	9 St. XSPBAC0204

Einf.	BxT = 1000x600
4/2	 4 St. XSPBA0106 6 St. XSPBAC0206
2/1	2 St. XSPBA0106 7 St. XSPBAC0206
blind	9 St. XSPBAC0206

Einf.	BxT = 1000x800
4/2	4 St. XSPBA0108 6 St. XSPBAC0208
2/1	2 St. XSPBA0108 7 St. XSPBAC0208
blind	9 St. XSPBAC0208

Einf.	BxT = 1200x600
4/2	4 St. XSPBA0106 8 St. XSPBAC0206
2/1	2 St. XSPBA0106 9 St. XSPBAC0206
blind	11 St. XSPBAC0206

Einf.	BxT = 1200x800
4/2	4 St. XSPBA0108 8 St. XSPBAC0208
2/1	2 St. XSPBA0108 9 St. XSPBAC0208
blind	11 St. XSPBAC0208

XE_Boden_Einf_tiefe

Notes

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The ongoing development of xEnergy Main with “Main busbar - top-mounted“ provides many technical advantages (for more details please refer to the Technical Section) and has the pleasant effect that most individual components of the existing product range are compatible. All individual components that can be used for both systems (main busbar at the top/rear) are marked in colours. However, not all individual components that have been developed for „Main busbar top-mounted“ are necessarily compatible with “Main busbar rear-mounted“!

Individual parts of the frame / Empty section

VT11113



vt10813



VT11613



VT35013



VT07706



VT22213



wa_vt65613



Section width mm	Frame - upper part (designed for busbar connection), Open Frame incl. screws and blue design strip	Frame - upper part (designed for busbar connection), Open Frame incl. screws, blue design strip and blanking plug High-current solution to 6300 A	Frame - bottom part (upper part) standard frame incl. screws	Vertical pfofiles 4 corner profiles incl. screws and sealing material, frame height = 2000 mm	Rear panel IP55 with polyurethane 2-components foam sealing	Rear panel IP42 with polyurethane 2-components foam sealing, fine-meshed grid on exchangeable frame construction	Rear panel IP31 with polyurethane 2-components foam sealing
	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.
300	**XTSGFBA-W300** 174040	**XTSZFBA-W300H200** 179378	**XTSGFBS-W300** 174077	**XTSGFH1-H2000** 174078	**XTSZRC-W300** 174079	**XTSZRV4-W300** 174083	**XSWV2003** 177084
425	**XTSZFBA-W425** 172510 186402*	**XTSZFBA-W425H200** 179379	**XTSZFBS-W425** 172517 186409*	**XTSPFH-H200** 173053 186352*	**XSWC2004** 284355 122346*	**XTSZRV4-W425** 172524 186416*	**XSWV2004** 284360 122351*
600	**XTSZFBA-W600** 172511 186403*	**XTSZFBA-W600H200** 179380	**XTSZFBS-W600** 172518 186410*	**XTSPFH-H200** 173053 186352*	**XSWC2006** 284356 122347*	**XTSZRV4-W600** 172525 186417*	**XSWV2006** 284361 122352*
800	**XTSZFBA-W800** 172512 186404*	**XTSZFBA-W800H200** 179381	**XTSZFBS-W800** 172519 186411*	**XTSPFH-H200** 173053 186352*	**XSWC2008** 284357 122353*	**XTSZRV4-W800** 172526 186418*	**XSWV2008** 284362 122353*
1000	**XTSZFBA-W1000** 172506 186398*	**XTSZFBA-W1000H200** 179382	**XTSZFBS-W1000** 172513 186405*	**XTSPFH-H200** 173053 186352*	**XSWC2010** 284358 122354*	**XTSZRV4-W1000** 172520 186412*	**XSWV2010** 284363 122354*
1100	**XTSZFBA-W1100** 172507 186399*	**XTSZFBA-W1100H200** 179383	**XTSZFBS-W1100** 172514 186406*	**XTSPFH-H200** 173053 186352*	**XSWC2011** 133000 133050*	**XTSZRV4-W1100** 172521 186413*	**XSWV2011** 133002 133050*
1200	**XTSZFBA-W1200** 172508 186400*	**XTSZFBA-W1200H200** 172508	**XTSZFBS-W1200** 172515 186407*	**XTSPFH-H200** 173053 186352*	**XSWC2012** 284359 122355*	**XTSZRV4-W1200** 172522 186414*	**XSWV2012** 284364 122355*
1350	**XTSZFBA-W1350** 172509 186401*	**XTSZFBA-W1350H200** 179384	**XTSZFBS-W1350** 172516 186408*	**XTSPFH-H200** 173053 186352*	**XSWC20135** 133001 133051*	**XTSZRV4-W1350** 172523 186415*	**XSWV201350** 133003 133051*

Note * Finish in special RAL colour

xEnergy Main Switchboards

Individual parts of the frame / Empty section

VT25113



wa_vt08713



VT25913



				Passive arc protection according to IEC/TR61641	Passive arc protection according to IEC/TR61641
Section width mm	Top panel closed, version for Open Frame, IP55, no cut-outs, with foam sealing, incl. screws	Top panel ventilated, version for Open Frame, without fine-meshed grid: IP31, with additional grid element: IP42, with foam sealing, incl. screws	Grid element for ventilated top panels, version for Open Frame, IP42 incl. screws	Top panel, version acc. to TR 61641 arc flash flap (pressure release flap), incl. in scope of delivery: Top panel with arc flap, screws, stacking frame (front and rear) connecting pieces for the stacking frame are in the scope of delivery of the side-by-side roof plates (needed with Open Frame) - XTSZPTA/185116	Stacking frame end piece acc. to TR61641, is required 1x per cabinet row, includes 4x corner pieces and 2x side pieces, incl. screws
	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.
200[1]	-	-	-	**XTSZPTA** 185116 186647*	**XAPA0208** 185118 186648*
300[2]	**XSPTC0306** 177085	-	-	**XTSPTA0308T** 185107 186638*	-
425	**XTSZPTAC-W425** 172712 186301*	**XTSZPTAV-W425** 172718 186347*	**XTSZPTAPA-W425** 172725	**XTSPTA0408** 185108 186639*	-
600	**XTSZPTAC-W600** 172713 186302*	**XTSZPTAV-W600** 172719 186348*	**XTSZPTAPA-W600** 172726	**XTSPTA0608** 185109 186640*	-
800	**XTSZPTAC-W800** 173093 186332*	**XTSZPTAV-W800** 172720 186349*	**XTSZPTAPA-W800** 172727	**XTSPTA0808** 185110 186641*	-
850	-	-	-	**XTSPTA0858** 185111 186642*	-
1000	**XTSZPTAC-W1000** 173091 186330*	**XTSZPTAV-W1000** 172714 186303*	**XTSZPTAPA-W1000** 172721	**XTSPTA1008** 185112 186643*	-
1100	**XTSZPTAC-W1100** 172710 186299*	**XTSZPTAV-W1100** 172715 186304*	**XTSZPTAPA-W1100** 172722	**XTSPTA1108** 185113 186644*	-
1200	**XTSZPTAC-W1200** 173092 186331*	**XTSZPTAV-W1200** 172716 186345*	**XTSZPTAPA-W1200** 172723	**XTSPTA1208** 185114 186645*	-
1350	**XTSZPTAC-W1350** 172711 186300*	**XTSZPTAV-W1350** 172717 186346*	**XTSZPTAPA-W1350** 172724	**XTSPTA1358** 185115 186646*	-

Note

* Finish in special RAL colour

[1] Arc flash flap for intermediate piece in case of Open Frame (width = 200 mm) must be used for every connection of two sections (with Open Frame)

[2] Arc flash flap - bar-connecting section (width = 300 mm)

Individual parts of the frame / Empty section

VT34614



VT60614



VT38513



VT62414



	Passive arc protection according to IEC/TR61641				
Section width mm	Arc flash partition acc. to IEC61641 is required 1x per cabinet row, at the beginning and at the end of the main busbar	Partition Partition busbar area/switchgear area in general sections, IP55	Wiring and control module for installation of various electrical components, H = 250 mm, incl. screws	Cable duct for control wiring, in connection with wiring/control module XTPZBAVC-H250W…, incl. screws and all fixing brackets	Partition instead of a control module XTPZBAVC-H250W...
	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.
200[1]	**XTI-P** 185117	-	-	-	-
300[2]	-	-	-	-	-
425	-	**XTPZBMH1-W425** 173046	**XTPZBAVC-H250W425** 172680	**XTPZAEHD-W425** 173102 186663*	**XTPZBAVP-H250W425** 173110
600	-	**XTPZBMH1-W600** 173047	**XTPZBAVC-H250W600** 172681	**XTPZAEHD-W600** 173100 186661*	**XTPZBAVP-H250W600** 173111
800	-	**XTPZBMH1-W800** 173048	**XTPZBAVC-H250W800** 172682	**XTPZAEHD-W800** 173101 186662*	**XTPZBAVP-H250W800** 173041
850	-	-	-	-	-
1000	-	**XTPZBMH1-W1000** 173042	**XTPZBAVC-H250W1000** 172683	**XTPZAEHD-W1000** 173096 186657*	**XTPZBAVP-H250W1000** 173106
1100	-	**XTPZBMH1-W1100** 173043	**XTPZBAVC-H250W1100** 172684	**XTPZAEHD-W1100** 173097 186658*	**XTPZBAVP-H250W1100** 173107
1200	-	**XTPZBMH1-W1200** 173044	**XTPZBAVC-H250W1200** 172685	**XTPZAEHD-W1200** 173098 186659*	**XTPZBAVP-H250W1200** 173108
1350	-	**XTPZBMH1-W1350** 173045	**XTPZBAVC-H250W1350** 172686	**XTPZAEHD-W1350** 173099 186660*	**XTPZBAVP-H250W1350** 173109

Note

* Finish in special RAL colour

[1] Arc flash flap for intermediate piece in case of Open Frame (width = 200 mm) must be used for every connection of two sections (with Open Frame)

[2] Arc flash flap - bar-connecting section (width = 300 mm)

xEnergy Main Switchboards

Individual parts of the frame / Empty section

VT22113



VT27713



VT25213



VT24813



VT26913



Side panel IP55, with polyurethane 2-components foam sealing, incl. screws	Side panel corner IP55, with polyurethane 2-components foam sealing, incl. screws	Side panel corner for high-current solution IP55, with polyurethane 2-components foam sealing, incl. screws	Side panel corner for vertical rail transition section IP55, with polyurethane 2-components foam sealing, incl. screws	Add-on top panel closed, fills the gap between 2 sections, IP55, no cut-outs, foam sealing, incl. screws	Add-on top panel for Open Frame, fills the gap between 2 sections, without fine-meshed grid: IP31, with additional grid element: IP42, foam sealing, incl. screws	Grid frame for add-on top panel (Open Frame), IP42, incl. screws
Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.
XTSZSA	**XTSZSA2**	**XTSZSA3**	**XTSZSA4**	**XTSZPTCC**	**XTSZPTCV**	**XTSZPTCPA**
172527	173094	179376	179377	172728	172729	172730
186419*	186333*			186350*	186351*	

Note * Finish in special RAL colour

Section width of doors to Switchgear Area (door heights 250-450 mm)

For IP42 version with exchangeable grid frame; all doors with hinges, tail hooks and screws.

VT56914 VT36413 VT55914 VT55714



Section width mm	Degree of protection	Door height 250 mm Article No. per pack/unit	Door height 325 mm Article No. per pack/unit	Door height 350 mm left in version IP55 suitable for both sides Article No. per pack/unit	Door height 350 mm right Article No. per pack/unit	Door height 450 mm Article No. per pack/unit
425	IP31	-	-	**XTSZDSQV3-H350W425** 177158 186431*	-	-
	IP42	-	-	**XTSZDSQV4L-H350W425** 177163 186436*	**XTSZDSQV4R-H350W425** 177167 186440*	-
	IP55	**XTSZDSQC-H250W425** 173061 186353*	-	**XTSZDSQC-H350W425** 173064 186356*	-	**XTSZDSQC-H450W425** 173067 186306*
600	IP31	-	**XTSZDSQV3-H325W600** 172707 186297*	**XTSZDSQV3-H350W600** 177159 186432*	-	-
	IP42	-	-	**XTSZDSQV4L-H350W600** 177164 186437*	**XTSZDSQV4R-H350W600** 177168 186441*	-
	IP55	**XTSZDSQC-H250W600** 173062 186354*	**XTSZDSQC-H325W600** 172704 186294*	**XTSZDSQC-H350W600** 173065 186357*	-	**XTSZDSQC-H450W600** 173068 186307*
800	IP31	-	**XTSZDSQV3-H325W800** 172708 186298*	**XTSZDSQV3-H350W800** 177160 186433*	-	-
	IP42	-	-	**XTSZDSQV4L-H350W800** 177165 186438*	**XTSZDSQV4R-H350W800** 177169 186442*	-
	IP55	**XTSZDSQC-H250W800** 173063 186355*	**XTSZDSQC-H325W800** 172705 186295*	**XTSZDSQC-H350W800** 173066 186305*	-	**XTSZDSQC-H450W800** 173069 186308*
1000	IP31	-	**XTSZDSQV3-H325W1000** 172706 186296*	**XTSZDSQV3-H350W1000** 177161 186434*	-	-
	IP42	-	-	**XTSZDSQV4L-H350W1000** 177166 186439*	**XTSZDSQV4R-H350W1000** 177170 186443*	-
	IP55	-	**XTSZDSQC-H325W1000** 172703 186293*	**XTSZDSQC-H350W1000** 177162 186435*	-	-
1100	IP31	-	-	-	-	-
	IP42	-	-	-	-	-
	IP55	-	-	-	-	-
1200	IP31	-	-	-	-	-
	IP42	-	-	-	-	-
	IP55	-	-	-	-	-
1350	IP31	-	-	-	-	-
	IP42	-	-	-	-	-
	IP55	-	-	-	-	-

Note * Finish in special RAL colour

xEnergy Main Switchboards

Section width of doors to Switchgear Area (door heights 550-1625 mm)

For IP42 version with exchangeable grid frame; all doors with hinges, tail hooks and screws.

VT57314



VT58614



VT58014



VT56414



VT66414



Section width mm	Degree of protection	Door height 550 mm Article No. per pack/unit	Door height 700 mm left in version IP55 suitable for both sides Article No. per pack/unit	Door height 700 mm right Article No. per pack/unit	Door height 800 mm right Article No. per pack/unit	Door height 1625 mm left in version IP55 suitable for both sides Article No. per pack/unit
425	IP31	-	**XTSZDSQV3L-H700W425** 173079 186318*	**XTSZDSQV3R-H700W425** 173082 186321*	-	-
	IP42	-	**XTSZDSQV4L-H700W425** 173085 186324*	**XTSZDSQV4R-H700W425** 173088 186327*	-	-
	IP55	**XTSZDSQC-H550W425** 173070 186309*	**XTSZDSQC-H700W425** 173073 186312*	-	**XTSZDSQC-H800W425** 173076 186315*	-
600	IP31	-	**XTSZDSQV3L-H700W600** 173080 186319*	**XTSZDSQV3R-H700W600** 173083 186322*	-	**XTSZDSKV3L-H1625W592** 174036 186596*
	IP42	-	**XTSZDSQV4L-H700W600** 173086 186325*	**XTSZDSQV4R-H700W600** 173089 186328*	-	**XTSZDSKV4L-H1625W592** 174038 186598*
	IP55	**XTSZDSQC-H550W600** 173071 186310*	**XTSZDSQC-H700W600** 173074 186313*	-	**XTSZDSQC-H800W600** 173077 186316*	**XTSZDSKC-H1625W592** 174035 186595*
800	IP31	-	**XTSZDSQV3L-H700W800** 173081 186320*	**XTSZDSQV3R-H700W800** 173084 186323*	-	-
	IP42	-	**XTSZDSQV4L-H700W800** 173087 186326*	**XTSZDSQV4R-H700W800** 173090 186329*	-	-
	IP55	**XTSZDSQC-H550W800** 173072 186311*	**XTSZDSQC-H700W800** 173075 186314*	-	**XTSZDSQC-H800W800** 173078 186317*	**XTSZDSKC-H1625W795** 177274
1000	IP31	-	-	-	-	-
	IP42	-	-	-	-	-
	IP55	-	-	-	-	-
1100	IP31	-	-	-	-	-
	IP42	-	-	-	-	-
	IP55	-	-	-	-	-
1200	IP31	-	-	-	-	-
	IP42	-	-	-	-	-
	IP55	-	-	-	-	-
1350	IP31	-	-	-	-	-
	IP42	-	-	-	-	-
	IP55	-	-	-	-	-

Note * Finish in special RAL colour

Section width of doors to Switchgear Area (door heights 1625-2000 mm)

For IP42 version with exchangeable grid frame; all doors with hinges, tail hooks and screws.

VT66514



VT22613



VT10513



Section width mm	Degree of protection	Door height 1625 mm right Article No. per pack/unit	Door height 2000 mm left Article No. per pack/unit	Door height 2000 mm right Article No. per pack/unit
425	IP31	-	-	-
	IP42	-	**XTSZDSKV4L-H2000W425** 172497 186389*	**XTSZDSKV4R-H2000W425** 172500 186392*
	IP55	-	-	-
600	IP31	**XTSZDSKV3R-H1625W592** 174037 186597*	-	-
	IP42	**XTSZDSKV4R-H1625W592** 174039 186599*	**XTSZDSKV4L-H2000W600** 172498 186390*	**XTSZDSKV4R-H2000W60** 172501 186393*
	IP55	-	-	-
800	IP31	-	-	-
	IP42	-	**XTSZDSKV4L-H2000W800** 172499 186391*	**XTSZDSKV4R-H2000W800** 172502 186394*
	IP55	-	-	-
1000	IP31	-	-	-
	IP42	-	**XTSZDSKV4L-H2000W1000** 172701 186428*	**XTSZDSKV4R-H2000W1000** 172702 186292*
	IP55	-	-	-
1100	IP31	-	-	-
	IP42	-	-	**XTSZDSKV4S-H2000W1100** 172503 186395*
	IP55	-	-	-
1200	IP31	-	-	-
	IP42	-	-	**XTSZDSKV4S-H2000W1200** 172504 186396*
	IP55	-	-	-
1350	IP31	-	-	-
	IP42	-	-	**XTSZDSKV4S-H2000W1350** 172505 186397*
	IP55	-	-	-

Note * Finish in special RAL colour

xEnergy Main Switchboards

Section width covers

With bayonet lock and screws.

vt122314



vt122114



VT31114

Section width mm	Degree of protection	Module height 250 mm Article No. per pack/unit	Module height 350 mm Article No. per pack/unit	Module height 550 mm Article No. per pack/unit
425	IP31	**XTSZCSV3-H250W425** 177142 186623*	**XTSZCSV3-H350W425** 177150 186631*	-
	IP42	**XTSZCSV4-H250W425** 177146 186627*	**XTSZCSV4-H350W425** 177154 186635*	-
	IP55	**XTSZCSC-H250W425** 173058	-	**XTSZCSC-H550W425** 173055
600	IP31	**XTSZCSV3-H250W600** 177143 186624*	**XTSZCSV3-H350W600** 177151 186632*	-
	IP42	**XTSZCSV4-H250W600** 177147 186628*	**XTSZCSV4-H350W600** 177155 186636*	-
	IP55	**XTSZCSC-H250W600** 173059	-	**XTSZCSC-H550W600** 173056
800	IP31	**XTSZCSV3-H250W800** 177144 186625*	**XTSZCSV3-H350W800** 177152 186633*	-
	IP42	**XTSZCSV4-H250W800** 177148 186629*	**XTSZCSV4-H350W800** 177156 186429*	-
	IP55	**XTSZCSC-H250W800** 173060	-	**XTSZCSC-H550W800** 173057
1000	IP31	**XTSZCSV3-H250W1000** 177145 186626*	**XTSZCSV3-H350W1000** 177153 186634*	-
	IP42	**XTSZCSV4-H250W1000** 177149 186630*	**XTSZCSV4-H350W1000** 177157 186430*	-
	IP55	**XTSZCSC-H250W1000** 177141 186622*	-	**XTSZCSC-H550W1000** 174060 186588*

Note * Finish in special RAL colour

IP42 Spare/Exchange grids for doors

VT26713



VT26813



VT26613



VT26513



2 Grid rows	3 Grid rows	4 Grid rows	5 Grid rows
Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
XTSZDPA2	**XTSZDPA3**	**XTSZDPA4**	**XTSZDPA5**
172690	172691	172692	172693
186420*	186421*	186422*	186423*

425 mm section width = 2 grid rows
600 mm section width = 3 grid rows
800 mm section width = 5 grid rows
1000 mm section width = 2x3 grid rows
1100 mm section width = 1x3 grid rows + 1x4 grid rows
1200 mm section width = 1x3 grid rows + 1x4 grid rows
1350 mm section width = 1x4 grid rows + 1x5 grid rows

IP42 Spare grids for rear panels

VT26113



VT26413



VT26313



VT26213



2 Grid rows for 425 mm section width	3 Grid rows 2x3 rows = 1000 mm 3x3 rows = 1350 mm section width	4 Grid rows for 600 mm section width 2x4 rows = 1100 mm and 1200 mm section width	5 Grid rows for 800 mm section width
Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
XTSZRPA2	**XTSZRPA3**	**XTSZRPA4**	**XTSZRPA5**
172694	172695	172696	172697
186424*	186425*	186426*	186427*

Note * Finish in special RAL colour

Main busbar support

Main busbar supports, completely mounted on a 2 mm support sheet. Can be used for 3 or 4 poles. Screws included. Cu 30/10 can be used. Left, center and right-side support available.

VT12813



Copper rows per phase	Main busbar support 3/4 pole universal support Article No. per pack/unit Pack = 1 pc.
1	**XTBZBM4X30X10/4** 172488
2	**XTBZBM8X30X10/4** 172494
3	**XTBZBM12X30X10/4** 172482

Protective Bar

With „Main busbar supports below" the frame will be covered with an additional angle.

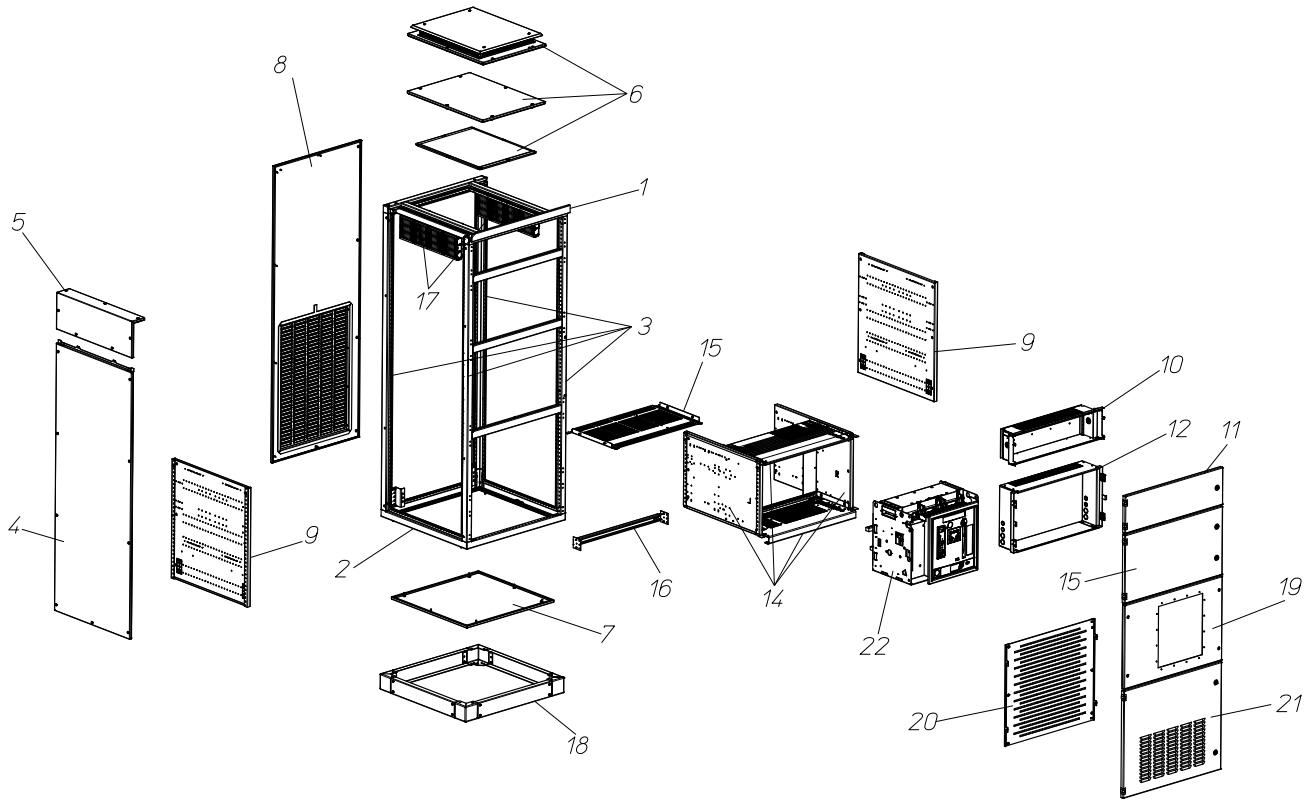
vt70114



Protective Bar Article No. per pack/unit Pack = 1 pc.
XTPZBEH1 174087

Description

XP_Explosion_single



1 Frame - top
2 Frame - bottom
3 Vertical profiles
4 Side panel
5 Corner element for side panel
6 Top panel
7 Bottom panel
8 Rear panel
9 Separation panel
10 Wiring/control module
11 Door to control module
12 Measuring module
13 Door to measuring module
14 Fitting kit
15 Horizontal partition
16 Cable strain relief rail
17 Main busbar support
18 Plinth
19 Front cover
20 Cover of connection area
21 Door to connection area
22 Circuit breaker

Features

- Widths: 600, 800, 1000 mm
- Fixed or withdrawable
- Form 4 up to type 7
- 3, 4, 3P+N
- IP31, IP42, IP55
- Can be used as incoming, outgoing or coupler switch
- Switchgear can be realised with remote drive
- With snap-on cover or module door
- Widths of 800 and 1000 mm come with a door to the cable connection area

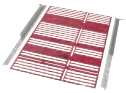
Notes

- Frame comes with a blue design strip (at the top)
- Doors include a locking system for a 3 mm two-way key-bit
- For cable guidance from the top you need to install an additional cable guidance section at the rear of the system
- With cover panels consisting of several parts it may be necessary to ensure the required degree of protection through additional measures
- The max. installation height available in the control module is 280 mm
- For flanges, clip-down handles, eyebolts, 180° hinges, fixing brackets, Durostone posts, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter “General Accessories“.

VT60214



VT61114



VT60014



Circuit breaker	I_{cc} up to (400 V AC) kA	Section width mm	Poles	Installation type	Mechanical lock	Fitting kit for IZMX16 and IZMX40, fixed and withdrawable, incl. mounting plates and screws Article No. per pack/unit	Horizontal partition between incoming/outgoing contacts of the circuit breaker Article No. per pack/unit	Wiring and control module for XP sections for use in combination with XTPPSSZ-H700 (side separation panel) Article No. per pack/unit
Circuit breaker								
IZMX16	65	425	3	fixed	yes	**XTMPIX16FM-H550W425** 173340	**XTPPIX16BH** 173510	**XTPPCAVC-H700W425** 173049
		600	3+4+TP/N	fixed	yes	**XTMPIX16FM-H550W600** 173341	**XTPPIX16BH** 173510	**XTPPCAVC-H700W600** 173050
		425	3	withdrawable	yes	**XTMPIX16WM-H550W425** 173346	**XTPPIX16BH** 173510	**XTPPCAVC-H700W425** 173049
		600	3+4+TP/N	withdrawable	yes	**XTMPIX16WM-H550W600** 173347	**XTPPIX16BH** 173510	**XTPPCAVC-H700W600** 173050
IZMX40	80	600	3	fixed	yes	**XTMPIX40FM-H550W600** 173352	**XTPPIX40BH** 173511	**XTPPCAVC-H700W600** 173050
		800	3+4+TP/N	fixed	yes	**XTMPIX40FM-H550W800** 173353	**XTPPIX40BH** 173511	**XTPPCAVC-H700W800** 173051
		600	3	withdrawable	yes	**XTMPIX40WM-H550W600** 173358	**XTPPIX40BH** 173511	**XTPPCAVC-H700W600** 173050
		800	3+4+TP/N	withdrawable	yes	**XTMPIX40WM-H550W800** 173359	**XTPPIX40BH** 173511	**XTPPCAVC-H700W800** 173051

VT59814



Separation panel consisting of 2 partition panels
H = 700 mm

Article No.
per pack/unit

wa_vt70513



Additional electric shock protection at the rear (PVC) 3 pcs. for entire field height

Article No.
per pack/unit

Transparent cover of the cable connection area
H = 700 mm

Article No.
per pack/unit

VT60714



Control module for XP sections
H = 450 mm

Article No.
per pack/unit

VT27613



Wiring and control module
H = 250 mm

Article No.
per pack/unit

VT38513



Control and wiring duct in combination with control module
(XTPZBAVC-H250W…)

Article No.
per pack/unit

XTPPSSZ-H700 173052	**XTPPC-H700W425** 174013	**XTPPVPC-W425** 173360	**XTPZBAVC-H450W425** 173103	**XTPZBAVC-H250W425** 172680	**XTPZAEHD-W425** 173102 186663*
XTPPSSZ-H700 173052	**XTPPC-H700W600** 174014	**XTPPVPC-W600** 173361	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-H250W600** 172681	**XTPZAEHD-W600** 173100 186661*
XTPPSSZ-H700 173052	**XTPPC-H700W425** 174013	**XTPPVPC-W425** 173360	**XTPZBAVC-H450W425** 173103	**XTPZBAVC-H250W425** 172680	**XTPZAEHD-W425** 173102 186663*
XTPPSSZ-H700 173052	**XTPPC-H700W600** 174014	**XTPPVPC-W600** 173361	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-H250W600** 172681	**XTPZAEHD-W600** 173100
XTPPSSZ-H700 173052	**XTPPC-H700W600** 174014	**XTPPVPC-W600** 173361	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-H250W600** 172681	**XTPZAEHD-W600** 173100 186661*
XTPPSSZ-H700 173052	**XTPPC-H700W800** 174015	**XTPPVPC-W800** 173362	**XTPZBAVC-H450W800** 173105	**XTPZBAVC-H250W800** 172682	**XTPZAEHD-W800** 173101 186662*
XTPPSSZ-H700 173052	**XTPPC-H700W600** 174014	**XTPPVPC-W600** 173361	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-H250W600** 172681	**XTPZAEHD-W600** 173100 186661*
XTPPSSZ-H700 173052	**XTPPC-H700W800** 174015	**XTPPVPC-W800** 173362	**XTPZBAVC-H450W800** 173105	**XTPZBAVC-H250W800** 172682	**XTPZAEHD-W800** 173101 186662*

Note * Finish in special RAL colour

VT62414



Partition instead of a control module (XTPZBAVC-H250W…)

Article No. per pack/unit
XTPZBAVP-H250W425 173110
XTPZBAVP-H250W600 173111
XTPZBAVP-H250W425 173110
XTPZBAVP-H250W600 173111
XTPZBAVP-H250W600 173111
XTPZBAVP-H250W800 173041
XTPZBAVP-H250W600 173111
XTPZBAVP-H250W800 173041

wa_vt15013



Cable strain relief rail

Article No. per pack/unit
XAR04 283850
XAR06 283851
XAR04 283850
XAR06 283851
XAR06 283851
XAR08 283852
XAR06 283851
XAR08 283852

wa_vt58313

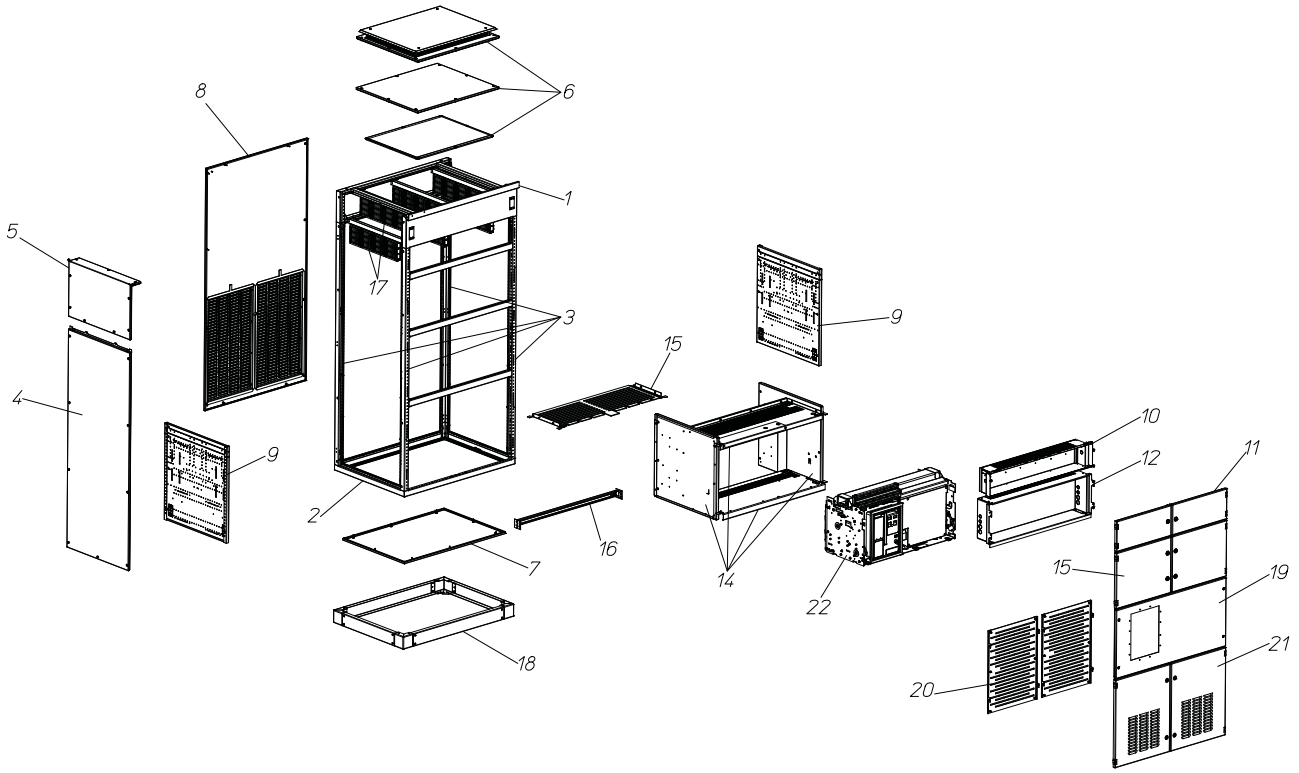


Fixing bracket for cable strain relief rail

Article No. per pack/unit
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740

Description

CAT0000033



1 Frame - top (High-current Version)
2 Frame - bottom
3 Vertical profiles
4 Side panel
5 Corner element for side panel (High-current Version)
6 Top panel
7 Bottom panel
8 Rear panel
9 Separation panel
10 Wiring/control module
11 Door to control module
12 Measuring module
13 Door to measuring module
14 Fitting kit
15 Horizontal partition
16 Cable strain relief rail
17 Main busbar support
18 Plinth
19 Front cover
20 Cover of connection area
21 Doors to connection area
22 Circuit breaker

Features

- Widths: 1100, 1350 mm
- Withdrawable
- Form 4 up to type 7
- 3, 4, 3P+N
- IP31, IP42, IP55
- Can be used as incoming, outgoing or coupler switch
- Switchgear can be realised with remote drive
- With snap-on cover or module door
- Double doors

Notes

- High-current frame (dual rail guidance)
- Doors include a locking system for a 3 mm two-way key-bit
- Mirrored configuration possible
- With cover panels consisting of several parts it may be necessary to ensure the required degree of protection through additional measures
- The max. installation height available in the control module is 280 mm
- For flanges, clip-down handles, eyebolts, 180° hinges, fixing brackets, Durostone posts, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter “General Accessories“.

VT31514



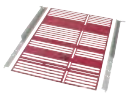
VT31014

VT59214



Circuit breaker	I_{cc} up to (400 V AC) kA	Section width mm	Poles	Installation type	Mechanical lock	Fitting kit for IZMX16 and IZMX40, fixed and withdrawable, incl. mounting plates and screws Article No. per pack/unit	Horizontal partition between incoming/outgoing contacts of the circuit breaker Article No. per pack/unit	Wiring and control module for XP sections for use in combination with XTPPSSZ-H700 (side separation panel) Article No. per pack/unit
Circuit breaker								
IZM63	100kA/440V 85kA/690V	1100	3	withdrawable	yes	**XTMPI63WM-H550W1100** 179348	**XTMPI63WC3-H550W1100** 179345	**XTMPI63WD3-H550W1100** 184911
		1350	4	withdrawable	yes	**XTMPI63WM-H550W1350** 179349	**XTMPI63WC4-H550W1350** 179347	**XTMPI63WD4-H550W1350** 184913
		1350	3	withdrawable	yes	**XTMPI63WM-H550W1350** 179349	**XTMPI63WC3-H550W1350** 179346	**XTMPI63WD3-H550W1350** 184912

VT61114



Horizontal partition, between incoming contacts of the circuit breaker

Article No.
per pack/unit

wa_vt70513



Plexiglass
incl. fixing brackets and screws

Article No.
per pack/unit

VT60014



Wiring and control module for for XP sections, to be used in combination with XTPPSSZ-H700 (side panel)

Article No.
per pack/unit

VT27313



Wiring and control duct in combination with control module (XTPZBAVC-H250W….)

Article No.
per pack/unit

VT35414



Cable duct for control wiring in combination with wiring module XTPZBAVC-H250W… incl. all fixing brackets and screws

Article No.
per pack/unit

XTPPI63BH-W1100 179353	**XTPZBMH1-W1100** 173043	**XTPZBAVC-H250W1100** 172684	**XTPZBAVP-H250W1100** 173107	**XTPZAEHD-W1100** 173097
XTPPI63BH-W1350 179354	**XTPZBMH1-W1350** 173045	**XTPZBAVC-H250W1350** 172686	**XTPZBAVP-H250W1350** 173109	**XTPZAEHD-W1350** 173099
XTPPI63BH-W1350 179354	**XTPZBMH1-W1350** 173045	**XTPZBAVC-H250W1350** 172686	**XTPZBAVP-H250W1350** 173109	**XTPZAEHD-W1350** 173099

VT62114



Partition instead of a control module (XTPZBAVC-H250W…)

Article No.
per pack/unit

XTPZBAVP-H250W1100
173107

XTPZBAVP-H250W1350
173109

XTPZBAVP-H250W1350
173109

VT60714



Measuring module (control module) for XP Sections
H = 450 mm

Article No.
per pack/unit

XTPZBAVC-H450W1100
184909

XTPZBAVC-H450W1350
184910

XTPZBAVC-H450W1350
184910

VT59814



Separation panel consisting of 2 partition panels
H = 700 mm

Article No.
per pack/unit

XTPPSSZ-H700
173052

XTPPSSZ-H700
173052

XTPPSSZ-H700
173052

wa_vt70513



Shutter (PVC) for additional protection at the rear (where required), as high as the section

Article No.
per pack/unit

-

-

-

wa_vt15013



Cable strain relief rail

Article No.
per pack/unit

XAR11
133076

XAR135
133077

XAR135
133077

wa_vt58313



Fixing brackets for cable strain relief rail

Article No.
per pack/unit

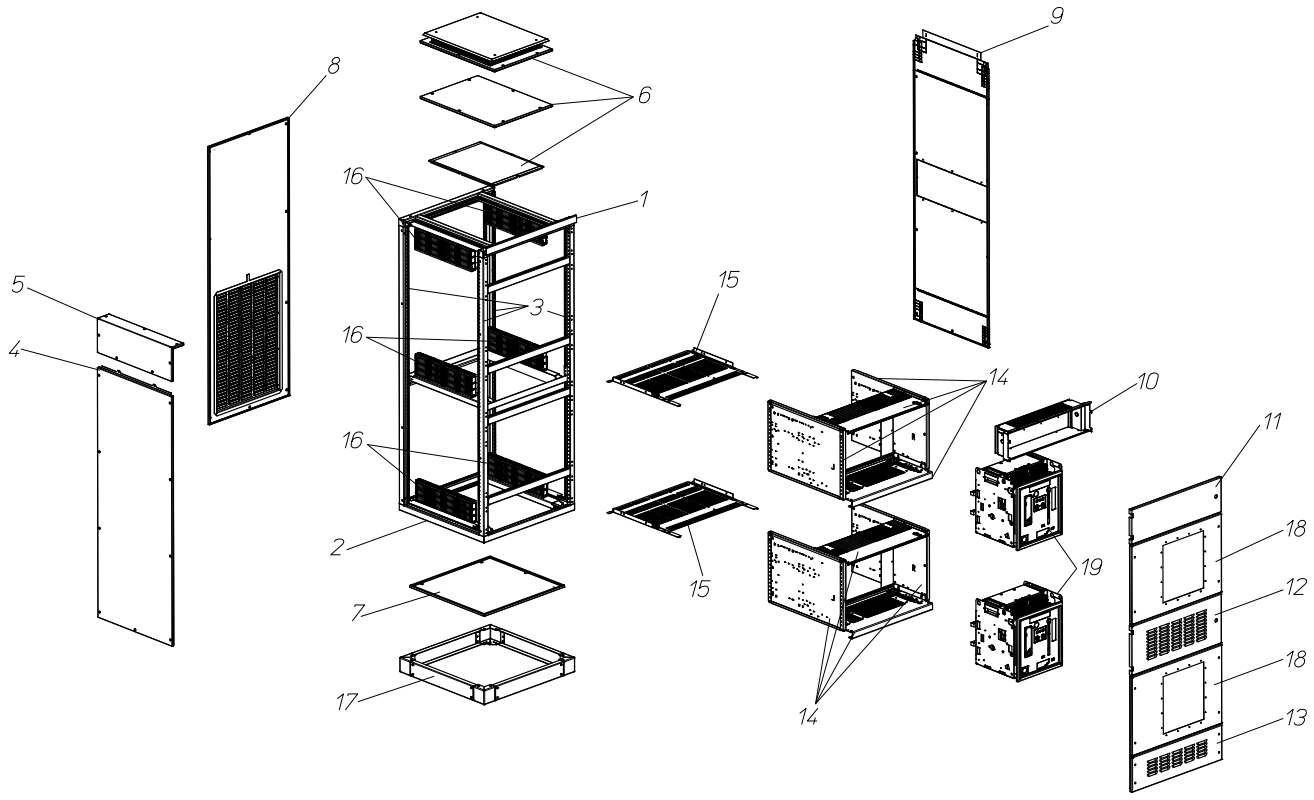
XNBW-R2
106740

XNBW-R2
106740

XNBW-R2
106740

Description

XP_stacked_Explosion



1 Frame - top
2 Frame - bottom
3 Vertical profiles
4 Side panel
5 Corner element for side panel
6 Top panel
7 Bottom panel
8 Rear panel
9 Separation panel
10 Wiring/control module
11 Door to control module
12 Door to central main busbar
13 Cover of bottom main busbar
14 Fitting kit
15 Horizontal partition
16 Main busbar support
17 Plinth
18 Front cover for ACB
19 Circuit breakers

Features

- Widths: 600, 800, 1000 mm
- Fixed or withdrawable
- Form 4 up to type 7
- 3, 4, 3P+N
- IP31, IP42, IP55
- Can be used as incoming, outgoing or coupler switch
- Switchgear can be realised with remote drive
- With snap-on cover or module door
- Widths of 800 and 1000mm come with a door to the cable connection area
- Cable connection area at the rear

Notes

- Frame comes with a blue design strip (at the top)
- Doors include a locking system for a 3 mm two-way key-bit
- For cable guidance from the top you need to install an additional cable guidance section at the rear of the system
- With cover panels consisting of several parts it may be necessary to ensure the required degree of protection through additional measures
- The max. installation height available in the control module is 250 mm
- For flanges, clip-down handles, eyebolts, 180° hinges, fixing brackets, Durostone posts, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter “General Accessories“.

VT45613



VT31514



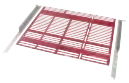
VT31014

VT59214



Circuit breaker	I_{cc} up to (400 V AC) kA	Section width mm	Poles	Installation type	Mechanical lock	Fitting kit for IZMX16 and IZMX40, fixed and withdrawable, incl. mounting plates and screws Article No. per pack/unit	Front cover incl. bayonet locks and screws Article No. per pack/unit	Module door left side incl. hinges, tail hook and screws, 3 mm two-way key-bit lock Article No. per pack/unit
Circuit breaker								
IZMX40	80	800	3	fixed	yes	**XTMPIX40FM-H550W800** 173353	**XTMPIX40FC-H550W800** 173349	**XTMPIX40FD-H550W800** 173351
		1000	3+4	fixed	yes	**XTMPIX40FM-H550W1000** 173993	**XTMPIX40FC-H550W1000** 173991	**XTMPIX40FD-H550W1000** 173993
		800	3	withdrawable	yes	**XTMPIX40WM-H550W800** 173359	**XTMPIX40WC-H550W800** 173355	**XTMPIX40FD-H550W800** 173351
		1000	3+4	withdrawable	yes	**XTMPIX40WM-H550W1000** 173996	**XTMPIX40WC-H550W1000** 173994	**XTMPIX40FD-H550W1000** 173993

VT61014 VT27313 VT35614 VT62414 vt02015 VT62414 VT56514









Horizontal partition between incoming/ outgoing contacts of the circuit breaker	Wiring and control module H = 250 mm	Control and wiring duct in combination with control module XTPZBAVC-H250W..	Partition instead of control module XTPZBAVC-H250W..	Mounting rail for center main busbar	Partition in front of main busbar at the center	Door to switchgear area closed for use on both sides H = 350 mm IP55
Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
XTPPIX40BH 173511	**XTPZBAVC-H250W800** 172682	**XTPZAEHD-W800** 173101 186662*	**XTPZBAVP-H250W800** 173041	**XTBZF1-W800** 177129	**XTPZBAVP-H350W800** 177136	**XTSZDSQC-H350W800** 173066 186305*
XTPPIX40BH 173511	**XTPZBAVC-H250W1000** 172683	**XTPZAEHD-W1000** 173096 186657*	**XTPZBAVP-H250W1000** 173106	**XTBZF1-W1000** 177130	**XTPZBAVP-H350W1000** 177137	**XTSZDSQC-H350W1000** 177162 186435*
XTPPIX40BH 173511	**XTPZBAVC-H250W800** 172682	**XTPZAEHD-W800** 173101 186662*	**XTPZBAVP-H250W800** 173041	**XTBZF1-W800** 177129	**XTPZBAVP-H350W800** 177136	**XTSZDSQC-H350W800** 173066 186305*
XTPPIX40BH 173511	**XTPZBAVC-H250W1000** 172683	**XTPZAEHD-W1000** 173096 186657*	**XTPZBAVP-H250W1000** 173106	**XTBZF1-W1000** 177130	**XTPZBAVP-H350W1000** 177137	**XTSZDSQC-H350W1000** 177162 186435*

Note * Finish in special RAL colour

wa_vt15013



Cable strain relief rail

Article No. per pack/unit
XAR08 283852
XAR10 283853
XAR08 283852
XAR10 283853

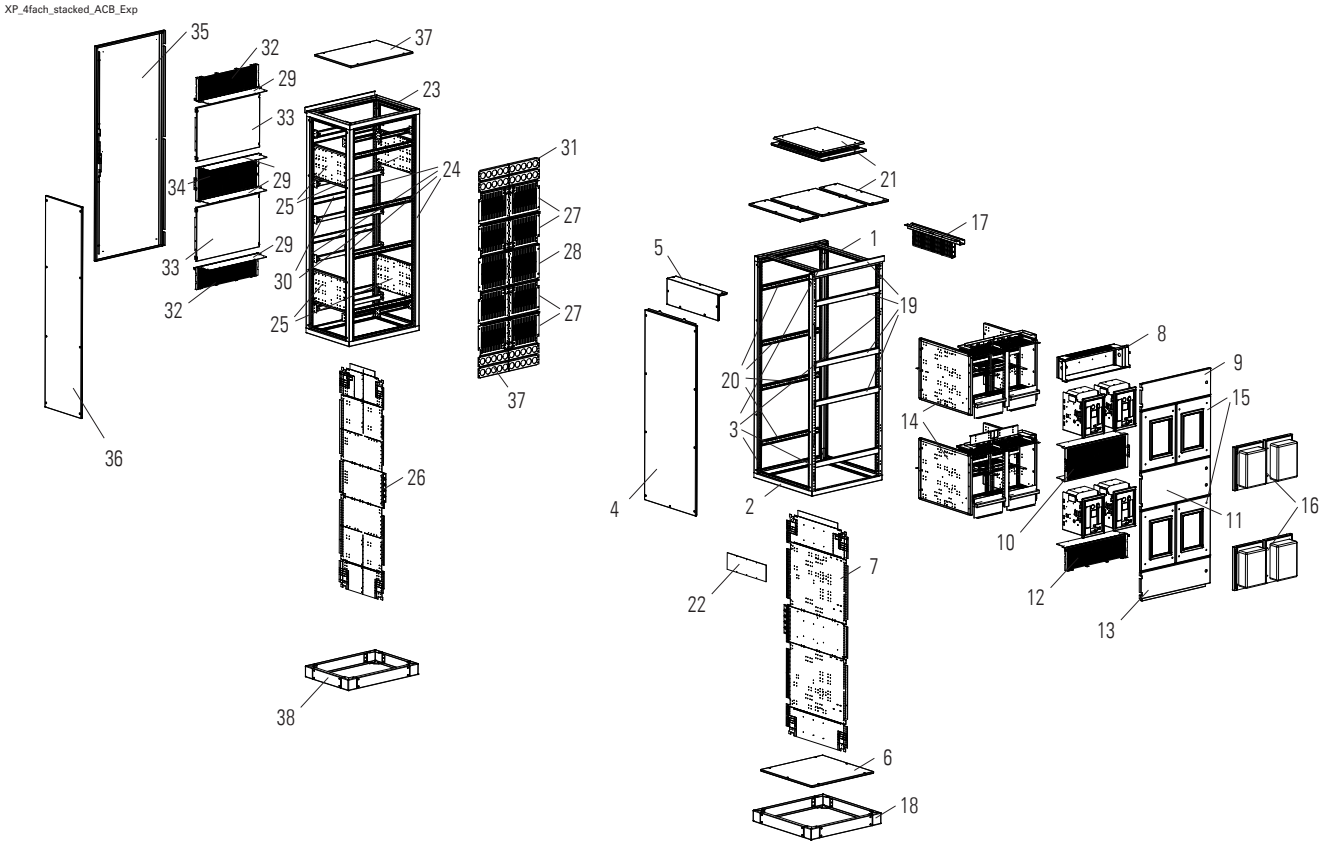
wa_vt58313



Fixing bracket for
cable strain relief rail

Article No. per pack/unit
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740

Description



Switchgear Section

1 Frame - top
2 Frame - bottom
3 Vertical profiles
4 Side panel
5 Corner element for side panel
6 Bottom panel
7 Centre separation panel - switchgear area
8 Wiring/control module
9 Door to control module (250 mm)
10 Centre partition
11 Door centre main busbar (350 mm)
12 Partition bottom
13 Door bottom main busbar
14 Fitting kits
15 Front covers
16 IP55 ACB cover
17 Main busbar support
18 Plinth
19 Cross profile front

Side/Cable Section

23 Base frame
24 Vertical profiles
25 Side mounting plates
26 Centre separation panel
27 Partition behind the ACB
28 Centre partition
29 Horizontal partition - cable connection area
30 Cross bars
31 Cable insertions
32 Partition main busbar
33 Partition (ACB height)
34 Centre partition
35 Door cable connection area
36 Side panel
37 Top panel
38 Plinth

Features

- Widths: 800, 1000 mm
- Fixed or withdrawable
- Form 4 up to type 7
- 3, 4, 3P+N
- IP31, IP42, IP55
- Can be used as feeder, outgoing or coupling switch
- Devices are available with remote drive
- With plug-type cover
- Setup only in combination with a cable connection section

Notes

- Frame comes with a blue design strip (at the top)
- Doors include a locking system for a 3 mm two-way key-bit
- With cover panels consisting of several parts it may be necessary to ensure the required degree of protection through additional measures
- For flanges, clip-down handles, eyebolts, 180° hinges, fixing brackets, Durostone posts, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter “General Accessories“.

wa_vt05014



wa_vt62913



VT111014



Position numbers in the exploded drawing									7
	I_{cc} up to (400 V AC) kA	I_e up to A	Section depth mm	Section width mm	Poles	Installation type	Mecha-nical lock	Cross bars mounting jaws and screws	Centre separation panel in 3 parts incl. screws
								Article No. per pack/unit	Article No. per pack/unit
Circuit breaker									
IZMX16	42	1600	800	800	3	fixed	no	**XSFD0608** 113993	**XTPPCCZ1-D800** 178066
				1000	3, 4, 3P+N	fixed	yes	**XSFD0610** 113994	**XTPPCCZ1-D800** 178066
				800	3	withdrawable	no	**XSFD0608** 113993	**XTPPCCZ1-D800** 178066
				1000	3, 4, 3P+N	withdrawable	yes	**XSFD0610** 113994	**XTPPCCZ1-D800** 178066

wa_vt68713



VT110814



VT110514



VT31014



vt02015



VT62414



	22	14	15		10
Cross carrier	Main busbar end plate when main busbar is divided in the middle	Fitting kit for IZMX16, fixed and withdrawable, incl. side mounting plates, carrier plates, partiton and anti-blow-out panels, partitions, horiz. Durostone partition at the centre, screws	Front cover left and right, incl. bayonet nut connectors, screws	Fixing brackets/bar supports for bar mounting at the centre	Partition in front of main busbars at the centre, to be used for IP31 and IP42
Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
XBBB08 283861	**XTPZBEZ** 178590	**XTMP2IX16FM-H550W800** 178378	**XTMP2IX16FC-H550W800** 178380	**XTBZF1-W800** 177129	**XTPZBAVP-H350W800** 177136
XBBB10 283862	**XTPZBEZ** 178590	**XTMP2IX16FM-H550W1000** 178379	**XTMP2IX16FC-H550W1000** 178381	**XTBZF1-W1000** 177130	**XTPZBAVP-H350W1000** 177137
XBBB08 283861	**XTPZBEZ** 178590	**XTMP2IX16WM-H550W800** 178062	**XTMP2IX16WC-H550W800** 178064	**XTBZF1-W800** 177129	**XTPZBAVP-H350W800** 177136
XBBB10 283862	**XTPZBEZ** 178590	**XTMP2IX16WM-H550W1000** 178063	**XTMP2IX16WC-H550W1000** 178065	**XTBZF1-W1000** 177130	**XTPZBAVP-H350W1000** 177137

VT10914	VT27313	VT35814	VT62414	VT56514
				
10	8			9, 11, 13
Partition in front of main busbars mounted at the centre, MUST be used for IP55	Wiring and control module H = 250 mm	Control and wiring duct in combination with control module XTPZBAVC-H250….	Partition instead of a control module XTPZBAVC.H250….	Doors to switchgear area H= 250 mm See chapter “Doors to switchgear area“
Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
XTPZBAVP2-H350W800 178382	**XTPZBAVC-H250W800** 172682	**XTPZDSQC-H250W800** 173101	**XTPZBAVP-H250W800** 173041	Chapter “Doors to switchgear area“
XTPZBAVP2-H350W1000 178383	**XTPZBAVC-H250W1000** 172683	**XTPZAEHD-W1000** 173096	**XTPZBAVP-H250W1000** 173106	Chapter “Doors to switchgear area“
XTPZBAVP2-H350W800 178382	**XTPZBAVC-H250W800** 172682	**XTPZDSQC-H250W800** 173101	**XTPZBAVP-H250W800** 173041	Chapter “Doors to switchgear area“
XTPZBAVP2-H350W1000 178383	**XTPZBAVC-H250W1000** 172683	**XTPZAEHD-W1000** 173096	**XTPZBAVP-H250W1000** 173106	Chapter “Doors to switchgear area“

VT110114



VT109814



VT109614



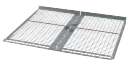
VT109914



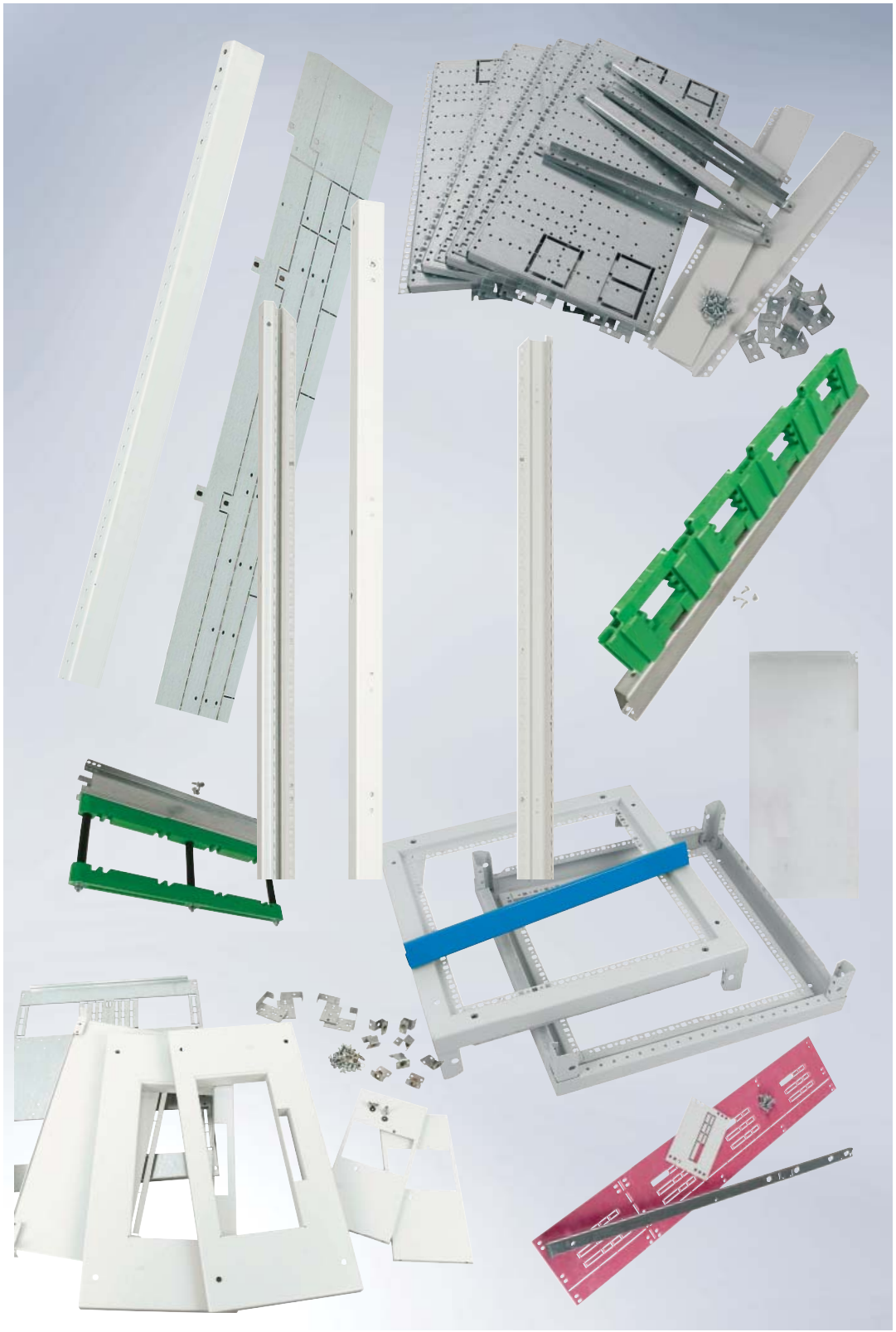
VT110914



Position numbers in the exploded drawing		31	28	27	25	26
Section depth mm	Section width mm	Cable insertions 2-part design, can be divided in the middle, H = 250 mm incl. 20 pcs. KT42, screws	Partition (centre) can be divided in the middle, H = 350 mm incl. screws	Partition behind ACB EBS, can be divided in the middle, H = 275 mm incl. screws	Side mounting plates, in 2 parts, incl. screws	Centre separation panel, in 3 parts, incl. screws
		Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
600	800	**XTPPCUV1-H250W800** 178393	**XTPPCBV3-H350W800** 178392	**XTPPCUV3-H275W800** 178391	**XTPPSSZ-H300** 178384	**XTPPCCZ1-D600** 178067
	1000	**XTPPCUV1-H250W1000** 178593	**XTPPCBV3-H350W1000** 178592	**XTPPCUV3-H275W1000** 178591	**XTPPSSZ-H300** 178384	**XTPPCCZ1-D600** 178067

VT108814	wa_vt56213	VT62414	VT109314	vt00515	vt109014
					
29	30	32	33	34	34
Partition horizontal can be divided in the middle, incl. screws	Cross bars mounting jaws and screws	Partition in front of main busbars, top and bottom, punched, H = 250 mm incl. screws	Partition in front of ACBs H = 550 mm incl. screws	Partition in front of main busbars in the middle, punched, H = 350 mm incl. screws	Partition in front of main busbars in the middle, unpunched, H = 350 mm incl. screws
Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
XTPPCCH2-W800D600 178395	**XSFD0608** 113993	**XTPZBAVP-H250W800** 173041	**XTPZBAVP2-H550W800** 178389	**XTPZBAVP-H350W800** 177136	**XTPZBAVP2-H350W800** 178382
XTPPCCH2-W1000D600 178595	**XSFD0610** 113994	**XTPZBAVP-H250W1000** 173106	**XTPZBAVP2-H550W1000** 178390	**XTPZBAVP-H350W1000** 177137	**XTPZBAVP2-H350W1000** 178383

Components IZMX..



IZM... Fitting kits

Consisting of 2 module side panels (left/right side, 1x support plate, partition behind the circuit breaker (switchgear area/main busbar area/cable connection area), partition above the circuit breaker (switchgear area/switchgear area), incl. all screws

	VT60314	VT60414	VT60514	VT60214	VT68714	VT68814	VT68614	VT65714
								
Section width mm	Fitting kit for IZMX16 3-pole fixed Article No. per pack/unit	Fitting kit for IZMX16 3-pole withdrawable Article No. per pack/unit	Fitting kit for IZMX16 3+4+TP/N fixed Article No. per pack/unit	Fitting kit for IZMX16 3+4+TP/N withdrawable Article No. per pack/unit	Fitting kit for IZMX40 3-pole fixed Article No. per pack/unit	Fitting kit for IZMX40 3-pole withdrawable Article No. per pack/unit	Fitting kit for IZMX40 3+4+TP/N fixed Article No. per pack/unit	Fitting kit for IZMX40 3+4+TP/N withdrawable Article No. per pack/unit
425	**XTMPIX16FM-H550W425** 173340	**XTMPIX16WM-H550W425** 173346	-	-	-	-	-	-
600	-	-	**XTMPIX16FM-H550W600** 173341	**XTMPIX16WM-H550W600** 173347	**XTMPIX40FM-H550W600** 173352	**XTMPIX40WM-H550W600** 173358	-	-
800	-	-	-	-	-	-	**XTMPIX40FM-H550W800** 173353	**XTMPIX40WM-H550W800** 173359

	vt51116	vt51016
		
Section width mm	Fitting kit for IZM63 3-pole withdrawable, incl. side mounting plates, and screws Article No. per pack/unit	Fitting kit for IZM63 4-pole + 3P+N withdrawable, incl. side mounting plates, and screws Article No. per pack/unit
1100	**XTMPI63WM-H550W1100** 179348	-
1350	-	**XTMPI63WM-H550W1350** 179349

2xIZMX16 Side/Side Fitting kits

Consisting of 2 module side panels (left/right side, 1x support plate, partition behind the circuit breaker (switchgear area/main busbar area/cable connection area), partition above the circuit breaker (switchgear area/switchgear area), horizontal partition (between incoming and outgoing terminals of the switches), incl. all screws

VT110514



vt110714



vt110414



vt110614

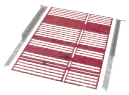


Section width mm	Fitting kit for 2xIZMX16 3-pole fixed Article No. per pack/unit	Fitting kit for 2xIZMX16 3, 4, 3P+N fixed Article No. per pack/unit	Fitting kit for 2xIZMX16 3-pole withdrawable Article No. per pack/unit	Fitting kit for 2xIZMX16 3, 4, 3P+N withdrawable Article No. per pack/unit
800	**XTMP2IX16FM-H550W800** 178378	-	**XTMP2IX16WM-H550W800** 178062	-
1000	-	**XTMP2IX16FM-H550W1000** 178379	-	**XTMP2IX16WM-H550W1000** 178063

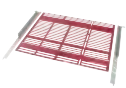
Horizontal partition

Between incoming and outgoing contacts of the circuit breaker.

VT61114



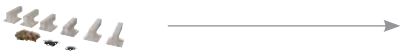
VT61014



Section width mm	IZMX16 Article No. per pack/unit	IZMX40 Article No. per pack/unit	IZM63 Article No. per pack/unit
425	**XTPPIX16BH** 173510	-	-
600	**XTPPIX16BH** 173510	**XTPPIX40BH** 173511	-
800	**XTPPIX16BH** 173510	**XTPPIX40BH** 173511	-
1100	-	-	**XTPPI63BH-W1100** 179355
1350	-	-	**XTPPI63BH-W1350** 179356

Terminal Connection Set

sg01715



Selection of Terminal Connection Sets according to the specifications of the operating instructions	Terminal Connection Set 3-pole Article No. per pack/unit	Terminal Connection Set 4-pole Article No. per pack/unit
	IZMX-TSET1 177176	**IZMX-TSET3** 177178
	IZMX-TSET2 177177	**IZMX-TSET4** 177179
	IZMX-TSET5 177180	**IZMX-TSET8** 177183
	IZMX-TSET6 177181	**IZMX-TSET9** 177184
	IZMX-TSET7 177182	
	IZMX-TSET10 177185	

Front Covers

Incl. fixing brackets, with bayonet locks and screws.

	VT59414	VT56214	VT56314	VT59614	VT56014	VT56114	VT59714	VT59514
								
Section width mm	Front cover for IZMX16 3-pole fixed Article No. per pack/unit	Front cover for IZMX16 3-pole withdrawable Article No. per pack/unit	Front cover for IZMX16 3+4+TP/N fixed Article No. per pack/unit	Front cover for IZMX16 3+4+TP/N withdrawable Article No. per pack/unit	Front cover for IZMX40 3-pole fixed Article No. per pack/unit	Front cover for IZMX40 3-pole withdrawable Article No. per pack/unit	Front cover for IZMX40 3+4+TP/N fixed Article No. per pack/unit	Front cover for IZMX40 3+4+TP/N withdrawable Article No. per pack/unit
425	**XTMPIX16FC-H550W425** 173336 186334*	**XTMPIX16WC-H550W425** 173342 186338*	-	-	-	-	-	-
600	-	-	**XTMPIX16FC-H550W600** 173337 186335*	**XTMPIX16WC-H550W600** 173343 186339*	**XTMPIX40FC-H550W600** 173348 186342*	**XTMPIX40WC-H550W600** 173354 186560*	-	-
800	-	-	-	-	-	-	**XTMPIX40FC-H550W800** 173349 186343*	**XTMPIX40WC-H550W800** 173355 186561*

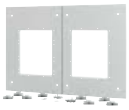
	vt50416	vt50216	vt50316
			
Section width mm	Front cover for IZM63 3-pole withdrawable Article No. per pack/unit	Front cover for IZM63 4-pole withdrawable Article No. per pack/unit	Front cover for IZM63 3P+N withdrawable Article No. per pack/unit
1100	**XTMPI63WC3-H550W1100** 179345	-	-
1350	-	**XTMPI63WC4-H550W1350** 179347	**XTMPI63WC3-H550W1350** 179346

Note * Finish in special RAL colour

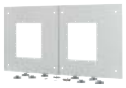
Front Covers

Incl. fixing brackets, with bayonet locks and screws. Kit including left and right cover plate.

vt73715



vt73615



vt73515



vt73515



Section width mm	Front cover for 2xIZMX16 3-pole fixed Article No. per pack/unit	Front cover for 2xIZMX16 3, 4, 3P+N fixed Article No. per pack/unit	Front cover for 2xIZMX16 3-pole withdrawable Article No. per pack/unit	Front cover for 2xIZMX16 3, 4, 3P+N withdrawable Article No. per pack/unit
800	**XTMP2IX16FC-H550W800** 178380	-	**XTMP2IX16WC-H550W800** 178064 186457*	-
1000	-	**XTMP2IX16FC-H550W1000** 178381	-	**XTMP2IX16WC-H550W1000** 178065 186458*

Note * Finish in special RAL colour

Module Doors

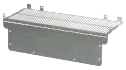
Incl. hinges (left-hinged) and screws.

	VT57614	VT58914	VT59214	VT57514	VT59514	VT59114	VT58114	VT59114
								
Section width mm	Module door for IZMX16 3-pole fixed Article No. per pack/unit	Module door for IZMX16 3-pole withdrawable Article No. per pack/unit	Module door for IZMX16 3+4+TP/N fixed Article No. per pack/unit	Module door for IZMX16 3+4+TP/N withdrawable Article No. per pack/unit	Module door for IZMX40 3-pole fixed Article No. per pack/unit	Module door for IZMX40 3-pole withdrawable Article No. per pack/unit	Module door for IZMX40 3+4+TP/N fixed Article No. per pack/unit	Module door for IZMX40 3+4+TP/N withdrawable Article No. per pack/unit
425	**XTMPIX16FD-H550W425** 173338 186336*	**XTMPIX16WD-H550W425** 173344 186340*	-	-	-	-	-	-
600	-	-	**XTMPIX16FD-H550W600** 173339 186337*	**XTMPIX16WD-H550W600** 173345 186341*	**XTMPIX40FD-H550W600** 173350 186344*	**XTMPIX40WD-H550W600** 173356 186562*	-	-
800	-	-	-	-	-	-	**XTMPIX40FD-H550W800** 173351 186559*	**XTMPIX40WD-H550W800** 173357 186563*

	vt50116	vt50016	vt49916
			
Section width mm	Front cover for IZM63 3-pole withdrawable Article No. per pack/unit	Front cover for IZM63 4-pole withdrawable Article No. per pack/unit	Front cover for IZM63 3P+N withdrawable Article No. per pack/unit
1100	**XTMPI63WD3-H550W1100** 184911	-	-
1350	-	**XTMPI63WD4-H550W1350** 184913	**XTMPI63WD3-H550W1350** 184912

Note * Finish in special RAL colour

Control Modules, Control and Wiring Ducts, Partitions

	VT60714	VT27313	VT38513	VT62514
				
Section width mm	Control module for XP sections for the installation of different electrical components, (circuit breakers, fuses, contactors, terminals, …) pre-punched for openings, fixed or swivelling, H = 450 mm, incl. screws	Wiring and control module for the installation of different electrical components, circuit breakers, fuses, contactors, terminals, …) pre-punched for openings, for cable duct XTPZBAEHD-W..., H = 250 mm, incl. screws	Control and wiring duct in combination with control module XTPZBAVC-H250W…, completely closed, pre-punched bottom-side, incl. fixing brackets and screws	Partition can be used instead of control module XTPZBAVC-H250W…, electrical shock-protected cover of the main busbars
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
425	**XTPZBAVC-H450W425** 173103	**XTPZBAVC-H250W425** 172680	**XTPZAEHD-W425** 173102	**XTPZBAVP-H250W425** 173110
600	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-H250W600** 172681	**XTPZAEHD-W600** 173100	**XTPZBAVP-H250W600** 173111
800	**XTPZBAVC-H450W800** 173105	**XTPZBAVC-H250W800** 172682	**XTPZAEHD-W800** 173101	**XTPZBAVP-H250W800** 173041
1000	-	**XTPZBAVC-H250W1000** 172683	**XTPZAEHD-W1000** 173096	**XTPZBAVP-H250W1000** 173106
1100	**XTPZBAVC-H450W1100** 184909	**XTPZBAVP-H250W1100** 173107	**XTPZAEHD-W1100** 173097	**XTPZBAVP-H250W1100** 173107
1350	**XTPZBAVC-H450W1350** 184910	**XTPZBAVP-H250W1350** 173109	**XTPZAEHD-W1350** 173099	**XTPZBAVP-H250W1350** 173109

Structure of the Support

vt61414



Fixing bracket for Durostone support

Article No.
per pack/unit
Pack = 10 pcs.

XTAAB1
173036

vt61214



Spacer
for max. 3 copper bars

Article No.
per pack/unit
Pack = 10 pcs.

XTAAB2
173037

vt61314



Fixing bracket
for 1 copper bar

Article No.
per pack/unit
Pack = 10 pcs.

XTAAB3
173038

vt63514



Carrier bracket
for fixing the bar carriers
in the vertical bar section

Article No.
per pack/unit
Pack = 1 pc.

XTAAB4
174067

vt02515



Holding brackets
for 2 copper bars

Article No.
per pack/unit
Pack = 1 pc.

XTAAB5
177171

vt02615



Holding brackets
for 3 copper bars

Article No.
per pack/unit
Pack = 1 pc.

XTAAB6
177126

vt51816



Fixing bracket
for triple Durostone side support

Article No.
per pack/unit
Pack = 1 pc.

XTAAB7
184901

Holding brackets
for 2 copper bars with larger distance between the bars

Article No.
per pack/unit
Pack = 1 pc.

XTAAB8
184902

vt50916



Carrier rail
for section width 1100 mm

Article No.
per pack/unit
Pack = 1 pc.

XTAAB9
184903

vt50716



Carrier rail
for section width 1350 mm

Article No.
per pack/unit
Pack = 1 pc.

XTAAB10
184904

vt51716



Carrier bracket
for fixing the bar carriers in the vertical bar section of the high current solution
Article No.

per pack/unit
Pack = 1 pc.

XTAAB11
184905

vt50816



Carrier rail
(type B)
for section width 1350 mm

Article No.
per pack/unit
Pack = 1 pc.

XTAAB12
184928

	I_{cc} up to (400 V AC) kA	Section width mm	Installation type	Mechanical lock	Remote drive	Rotary drive	Breakers/EBS	Poles
Circuit breaker								
NZM4		425	fixed	no	no	no	1	3
		600	fixed	no	no	no	1	3+4+3P/N
		800	fixed	no	no	no	2	3
		1000	fixed	no	no	no	2	3+4+3P/N
		425	fixed	yes	no	no	1	3
		600	fixed	yes	no	no	1	3+4+3P/N
		800	fixed	yes	no	no	2	3
		1000	fixed	yes	no	no	2	3+4+3P/N

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

xEnergy Main Switchboards

XP Sections, Single and Side by Side Circuit breaker, fixed

vt19417



Vertical carrier plates between the MCCB modules

Article No. per pack/unit
-
-
XTPPCCZ2-D800 180771
XTPPCCZ2-D800 180771
-
-
XTPPCCZ2-D800 180771
XTPPCCZ2-D800 180771

vt72015



Fitting kit for NZM4 incl. mounting plate, fixing brackets and screws

Article No. per pack/unit
XTMPN4FM-H550W425 180706
XTMPN4FM-H550W600 180707
XTMP2N4FM-H550W800 180708
XTMP2N4FM-H550W1000 180709
XTMPN4FM-H550W425 180706
XTMPN4FM-H550W600 180707
XTMP2N4FM-H550W800 180708
XTMP2N4FM-H550W1000 180709

vt72315



Front plate IP31 incl. fixing brackets and screws

Article No. per pack/unit
XTMPN4FC-H550W425 180714 186500*
XTMPN4FC-H550W600 180715 186501*
XTMP2N4FC-H550W800 180725 186686*
XTMP2N4FC-H550W1000 180726 186687*
XTMPN4FC-H550W425 180714 186500*
XTMPN4FC-H550W600 180715 186501*
XTMP2N4FC-H550W800 180725 186686*
XTMP2N4FC-H550W1000 180726 186687*

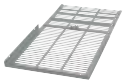
vt18117



Front plate IP42 + IP55 incl. fixing brackets and screws

Article No. per pack/unit
XTMPN4FCC-H550W425 180716 186502*
XTMPN4FCC-H550W600 180717 186503*
XTMP2N4FCC-H550W800 180727 186688*
XTMP2N4FCC-H550W1000 180728 186689*
XTMPN4FCC-H550W425 180716 186502*
XTMPN4FCC-H550W600 180717 186503*
XTMP2N4FCC-H550W800 180727 186688*
XTMP2N4FCC-H550W1000 180728 186689*

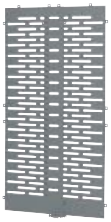
vt74015



Horizontal partition between incoming/outgoing contacts of the circuit breaker

Article No. per pack/unit
XTPPN4BH-W425 180736
XTPPN4BH-W600 180737
XTPP2N4BH-W800 180738
XTPP2N4BH-W1000 180739
XTPPN4BH-W425 180736
XTPPN4BH-W600 180737
XTPP2N4BH-W800 180738
XTPP2N4BH-W1000 180739

VT67414



Additional contact protection (PVC) at the rear

Article No. per pack/unit
XTPPVPC-W425 173360
XTPPVPC-W600 173361
XTPPVPC-W800 173362
-
XTPPVPC-W425 173360
XTPPVPC-W600 173361
XTPPVPC-W800 173362
-

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

wa_vt70513



Transparent cover of the cable connection area
H = 700 mm

Article No.
per pack/unit

vt74315



Horizontal partition above/below the circuit breaker

Article No.
per pack/unit

VT59814



Side separation panel consisting of 2 partition panels
H = 700 mm

Article No.
per pack/unit

VT60114



Wiring and control module for XP Sections to be used for XP sections in combination with XTPPSSZ-700 (side separation panel)

Article No.
per pack/unit

VT60714



Control module for XP sections
H = 450 mm

Article No.
per pack/unit

VT38413



Wiring and control module
H = 250 mm

Article No.
per pack/unit

XTPPVPC-H700W425 174013 186584*	**XTPPN4MEH-W425D116** 180742	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W425** 173049	**XTPZBAVC-H450W425** 173103	**XTPZBAVC-250W425** 172680
XTPPVPC-H700W600 174014 186585*	**XTPPN4MEH-W600D116** 180743	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W600** 173050	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-250W600** 172681
XTPPVPC-H700W800 174015 186586*	**XTPP2N4MEH-W800D116** 180744	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W800** 173051	**XTPZBAVC-H450W800** 173105	**XTPZBAVC-250W800** 172682
-	**XTPP2N4MEH-W1000D116** 180745	**XTPPSSZ-H700** 173052	**-**	**XTPZBAVC-H450W1000** on request	**XTPZBAVC-250W1000** 172683
XTPPVPC-H700W425 174013 186584*	**XTPPN4MEH-W425D211** 180754	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W425** 173049	**XTPZBAVC-H450W425** 173103	**XTPZBAVC-250W425** 172680
XTPPVPC-H700W600 174014 186585*	**XTPPN4MEH-W600D211** 180755	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W600** 173050	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-250W600** 172681
XTPPVPC-H700W800 174015 186586*	**XTPP2N4MEH-W800D211** 180756	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W800** 173051	**XTPZBAVC-H450W800** 173105	**XTPZBAVC-250W800** 172682
-	**XTPP2N4MEH-W1000D211** 180757	**XTPPSSZ-H700** 173052	**-**	**XTPZBAVC-H450W1000** on request	**XTPZBAVC-250W1000** 172683

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

VT35914



Control and wiring duct in combination with control module XTPZBAVC-H250W..

Article No. per pack/unit
XTPZAEHD-W425 173102 186663*
XTPZAEHD-W600 173100 186661*
XTPZAEHD-W800 173101 186662*
XTPZAEHD-W1000 173096 186657*
XTPZAEHD-W425 173102 186663*
XTPZAEHD-W600 173100 186661*
XTPZAEHD-W800 173101 186662*
XTPZAEHD-W1000 173096 186657*

VT62614



Partition instead of a control module XTPZBAVC-H250W..

Article No. per pack/unit
XTPZBAVP-H250W425 173110
XTPZBAVP-H250W600 173111
XTPZBAVP-H250W800 173041
XTPZBAVP-H250W1000 173106
XTPZBAVP-H250W425 173110
XTPZBAVP-H250W600 173111
XTPZBAVP-H250W800 173041
XTPZBAVP-H250W1000 173106

wa_vt15013



Cable strain relief rail

Article No. per pack/unit
XAR04 283850
XAR06 283851
XAR08 283852
XAR10 283853
XAR04 283850
XAR06 283851
XAR08 283852
XAR10 283853

wa_vt58313



Fixing brackets for cable strain relief rail

Article No. per pack/unit
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

	I_{cc} up to (400 V AC) kA	Section width mm	Installation type	Mechanical lock	Remote drive	Rotary drive	Breakers/EBS	Poles
Circuit breaker								
NZM4		425	fixed	no	yes	no	1	3
		600	fixed	no	yes	no	1	3+4+3P/N
		800	fixed	no	yes	no	2	3
		1000	fixed	no	yes	no	2	3+4+3P/N
		425	fixed	no	no	yes	1	3
		600	fixed	no	no	yes	1	3+4+3P/N
		800	fixed	no	no	yes	2	3
		1000	fixed	no	no	yes	2	3+4+3P/N

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

vt19417



Vertical carrier plates between the MCCB modules

Article No. per pack/unit
-
-
XTPPCCZ2-D800 180771
XTPPCCZ2-D800 180771
-
-
XTPPCCZ2-D800 180771
XTPPCCZ2-D800 180771

vt72015



Fitting kit for NZM4 incl. mounting plate, fixing brackets and screws

Article No. per pack/unit
XTMPN4FM-H550W425 180706
XTMPN4FM-H550W600 180707
XTMP2N4FM-H550W800 180708
XTMP2N4FM-H550W1000 180709
XTMPN4FM-H550W425 180706
XTMPN4FM-H550W600 180707
XTMP2N4FM-H550W800 180708
XTMP2N4FM-H550W1000 180709

vt72315



Front plate IP31 incl. fixing brackets and screws

Article No. per pack/unit
XTMPN4FC-H550W425 180714 186500*
XTMPN4FC-H550W600 180715 186501*
XTMP2N4FC-H550W800 180725 186686*
XTMP2N4FC-H550W1000 180726 186687*
XTMPN4FC-H550W425 180714 186500*
XTMPN4FC-H550W600 180715 186501*
XTMP2N4FC-H550W800 180725 186686*
XTMP2N4FC-H550W1000 180726 186687*

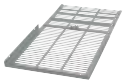
vt18117



Front plate IP42 + IP55 incl. fixing brackets and screws

Article No. per pack/unit
XTMPN4FCC-H550W425 180716 186502*
XTMPN4FCC-H550W600 180717 186503*
XTMP2N4FCC-H550W800 180727 186688*
XTMP2N4FCC-H550W1000 180728 186689*
XTMPN4FCC-H550W425 180716 186502*
XTMPN4FCC-H550W600 180717 186503*
XTMP2N4FCC-H550W800 180727 186688*
XTMP2N4FCC-H550W1000 180728 186689*

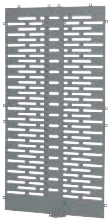
vt74015



Horizontal partition between incoming/outgoing contacts of the circuit breaker

Article No. per pack/unit
XTPPN4BH-W425 180736
XTPPN4BH-W600 180737
XTPP2N4BH-W800 180738
XTPP2N4BH-W1000 180739
XTPPN4BH-W425 180736
XTPPN4BH-W600 180737
XTPP2N4BH-W800 180738
XTPP2N4BH-W1000 180739

VT67414



Additional contact protection (PVC) at the rear

Article No. per pack/unit
XTPPVPC-W425 173360
XTPPVPC-W600 173361
XTPPVPC-W800 173362
-
XTPPVPC-W425 173360
XTPPVPC-W600 173361
XTPPVPC-W800 173362
-

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

wa_vt70513



Transparent cover of the cable connection area
H = 700 mm

Article No.
per pack/unit

vt74315



Horizontal partition above/below the circuit breaker

Article No.
per pack/unit

VT59814



Side separation panel consisting of 2 partition panels
H = 700 mm

Article No.
per pack/unit

VT60114



Wiring and control module for XP Sections to be used for XP sections in combination with XTPPSSZ-700 (side separation panel)

Article No.
per pack/unit

VT60714



Control module for XP sections
H = 450 mm

Article No.
per pack/unit

VT38413



Wiring and control module
H = 250 mm

Article No.
per pack/unit

XTPPVPC-H700W425 174013 186584*	**XTPPN4MEH-W425D291** 180750	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W425** 173049	**XTPZBAVC-H450W425** 173103	**XTPZBAVC-250W425** 172680
XTPPVPC-H700W600 174014 186585*	**XTPPN4MEH-W600D291** 180751	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W600** 173050	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-250W600** 172681
XTPPVPC-H700W800 174015 186586*	**XTPP2N4MEH-W800D291** 180752	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W800** 173051	**XTPZBAVC-H450W800** 173105	**XTPZBAVC-250W800** 172682
-	**XTPP2N4MEH-W1000D291** 180753	**XTPPSSZ-H700** 173052	**-**	**-**	**XTPZBAVC-250W1000** 172683
XTPPVPC-H700W425 174013 186584*	**XTPPN4MEH-W425D168** 180746	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W425** 173049	**XTPZBAVC-H450W425** 173103	**XTPZBAVC-250W425** 172680
XTPPVPC-H700W600 174014 186585*	**XTPPN4MEH-W600D168** 180747	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W600** 173050	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-250W600** 172681
XTPPVPC-H700W800 174015 186586*	**XTPP2N4MEH-W800D168** 180748	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W800** 173051	**XTPZBAVC-H450W800** 173105	**XTPZBAVC-250W800** 172682
-	**XTPP2N4MEH-W1000D168** 180749	**XTPPSSZ-H700** 173052	**-**	**XTPZBAVC-H450W1000** on request	**XTPZBAVC-250W1000** 172683

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

VT35914



Control and wiring duct in combination with control module XTPZBAVC-H250W..

Article No.
per pack/unit

XTPZAEHD-W425 173102 186663*
XTPZAEHD-W600 173100 186661*
XTPZAEHD-W800 173101 186662*
XTPZAEHD-W1000 173096 186657*
XTPZAEHD-W425 173102 186663*
XTPZAEHD-W600 173100 186661*
XTPZAEHD-W800 173101 186662*
XTPZAEHD-W1000 173096 186657*

VT62614



Partition
instead of a control module XTPZBAVC-H250W..

Article No.
per pack/unit

XTPZBAVP-H250W425 173110
XTPZBAVP-H250W600 173111
XTPZBAVP-H250W800 173041
XTPZBAVP-H250W1000 173106
XTPZBAVP-H250W425 173110
XTPZBAVP-H250W600 173111
XTPZBAVP-H250W800 173041
XTPZBAVP-H250W1000 173106

wa_vt15013



Cable strain relief rail

Article No.
per pack/unit

XAR04 283850
XAR06 283851
XAR08 283852
XAR10 283853
XAR04 283850
XAR06 283851
XAR08 283852
XAR10 283853

wa_vt58313



Fixing brackets
for cable strain relief rail

Article No.
per pack/unit

XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

	I_{cc} up to (400 V AC) kA	Section width mm	Installation type	Mechanical lock	Remote drive	Rotary drive	Breakers/EBS	Poles
Circuit breaker								
NZM4		425	withdrawable	no	no	no	1	3
		600	withdrawable	no	no	no	1	3
		600	withdrawable	no	no	no	1	3+4+3P/N
		800	withdrawable	no	no	no	2	3
		1000	withdrawable	no	no	no	2	3
		1000	withdrawable	no	no	no	2	3+4+3P/N
		425	withdrawable	no	yes	no	1	3
		600	withdrawable	no	yes	no	1	3
		600	withdrawable	no	yes	no	1	3+4+3P/N
		800	withdrawable	no	yes	no	2	3

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

xEnergy Main Switchboards

XP Sections, Single and Side by Side Circuit breaker, withdrawable

vt19417



Vertical carrier plates between the MCCB modules

Article No. per pack/unit
-
-
-
XTPPCCZ2-D800 180771
XTPPCCZ2-D800 180771
XTPPCCZ2-D800 180771
-
-
-
XTPPCCZ2-D800 180771

vt72015



Fitting kit for NZM4 incl. mounting plate, fixing brackets and screws

Article No. per pack/unit
XTMPN4FM-H550W425 180706
XTMPN4FM-H550W600 180707
XTMPN4FM-H550W600 180707
XTMP2N4FM-H550W800 180708
XTMP2N4FM-H550W1000 180709
XTMP2N4FM-H550W1000 180709
XTMPN4FM-H550W425 180706
XTMPN4FM-H550W600 180707
XTMPN4FM-H550W600 180707
XTMP2N4FM-H550W800 180708

vt72315



Front plate IP31 incl. fixing brackets and screws

Article No. per pack/unit
-
-
-
-
-
-
-
-
-
-
-

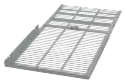
vt18117



Front plate IP42 + IP55 incl. fixing brackets and screws

Article No. per pack/unit
XTMPN4WCC-H550W425 180722 186683*
XTMPN4W3CC-H550W600 180723 186684*
XTMPN4W4CC-H550W600 180724 186685*
XTMP2N4WCC-H550W800 180733 186694*
XTMP2N4W3CC-H550W1000 180734 186695*
XTMP2N4W4CC-H550W1000 180735 186696*
XTMPN4WCC-H550W425 180722 186683*
XTMPN4W3CC-H550W600 180723 186684*
XTMPN4W4CC-H550W600 180724 186685*
XTMP2N4WCC-H550W800 180733 186694*

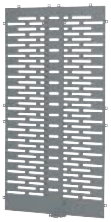
vt74015



Horizontal partition between incoming/outgoing contacts of the circuit breaker

Article No. per pack/unit
XTPPN4BH-W425 180736
XTPPN4BH-W600 180737
XTPPN4BH-W600 180737
XTPP2N4BH-W800 180738
XTPP2N4BH-W1000 180739
XTPP2N4BH-W1000 180739
XTPPN4BH-W425 180736
XTPPN4BH-W600 180737
XTPPN4BH-W600 180737
XTPP2N4BH-W800 180738

VT67414



Additional contact protection (PVC) at the rear

Article No. per pack/unit
XTPPVPC-W425 173360
XTPPVPC-W600 173361
XTPPVPC-W600 173361
XTPPVPC-W800 173362
-
-
XTPPVPC-W425 173360
XTPPVPC-W600 173361
XTPPVPC-W600 173361
XTPPVPC-W800 173362

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

wa_vt70513



Transparent cover of the cable connection area
H = 700 mm

Article No.
per pack/unit

vt70015



Horizontal partition above/below the circuit breaker

Article No.
per pack/unit

VT59814



Side separation panel consisting of 2 partition panels
H = 700 mm

Article No.
per pack/unit

VT60114



Wiring and control module for XP Sections to be used for XP sections in combination with XTPPSSZ-700 (side separation panel)

Article No.
per pack/unit

VT60714



Control module for XP sections
H = 450 mm

Article No.
per pack/unit

VT38613



Wiring and control module
H = 250 mm

Article No.
per pack/unit

XTPPVPC-H700W425 174013 186584*	**XTPPN4MEH-W425D281** 180758	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W425** 173049	**XTPZBAVC-H450W425** 173103	**XTPZBAVC-250W425** 172680
XTPPVPC-H700W600 174014 186585*	**XTPPN4MEH-W600D281** 180759	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W600** 173050	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-250W600** 172681
XTPPVPC-H700W600 174014 186585*	**XTPPN4MEH-W600D281** 180759	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W600** 173050	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-250W600** 172681
XTPPVPC-H700W800 174015 186586*	**XTPPN4MEH-W800D281** 180760	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W800** 173051	**XTPZBAVC-H450W800** 173105	**XTPZBAVC-250W800** 172682
-	**XTPPN4MEH-W1000D281** 180761	**XTPPSSZ-H700** 173052	**-**	**-**	**XTPZBAVC-250W1000** 172683
-	**XTPPN4MEH-W1000D281** 180761	**XTPPSSZ-H700** 173052	**-**	**XTPZBAVC-H450W1000** on request	**XTPZBAVC-250W1000** 172683
XTPPVPC-H700W425 174013 186584*	**XTPPN4MEH-W425D368** 180762	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W425** 173049	**XTPZBAVC-H450W425** 173103	**XTPZBAVC-250W425** 172680
XTPPVPC-H700W600 174014 186585*	**XTPPN4MEH-W600D368** 180763	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W600** 173050	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-250W600** 172681
XTPPVPC-H700W600 174014 186585*	**XTPPN4MEH-W600D368** 180763	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W600** 173050	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-250W600** 172681
XTPPVPC-H700W800 174015 186586*	**XTPP2N4MEH-W800D368** 180764	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W800** 173051	**XTPZBAVC-H450W800** 173105	**XTPZBAVC-250W800** 172682

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

VT38513



Control and wiring duct in combination with control module XTPZBAVC-H250W..

Article No.
per pack/unit

XTPZAEHD-W425 173102 186663*
XTPZAEHD-W600 173100 186661*
XTPZAEHD-W600 173100 186661*
XTPZAEHD-W800 173101 186662*
XTPZAEHD-W1000 173096 186657*
XTPZAEHD-W1000 173096 186657*
XTPZAEHD-W425 173102 186663*
XTPZAEHD-W600 173100 186661*
XTPZAEHD-W600 173100 186661*
XTPZAEHD-W800 173101 186662*

VT62614



Partition
instead of a control module XTPZBAVC-H250W..

Article No.
per pack/unit

XTPZBAVP-H250W425 173110
XTPZBAVP-H250W600 173111
XTPZBAVP-H250W600 173111
XTPZBAVP-H250W800 173041
XTPZBAVP-H250W1000 173106
XTPZBAVP-H250W1000 173106
XTPZBAVP-H250W425 173110
XTPZBAVP-H250W600 173111
XTPZBAVP-H250W600 173111
XTPZBAVP-H250W800 173041

wa_vt15013



Cable strain relief rail

Article No.
per pack/unit

XAR04 283850
XAR06 283851
XAR06 283851
XAR08 283852
XAR10 283853
XAR10 283853
XAR04 283850
XAR06 283851
XAR06 283851
XAR08 283852

wa_vt58313



Fixing brackets
for cable strain relief rail

Article No.
per pack/unit

XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

	I_{cc} up to (400 V AC) kA	Section width mm	Installation type	Mechanical lock	Remote drive	Rotary drive	Breakers/EBS	Poles
Circuit breaker								
NZM4		1000	withdrawable	no	yes	no	2	3
		1000	withdrawable	no	yes	no	2	3+4+3P/N
		425	withdrawable	no	no	yes	1	3
		600	withdrawable	no	no	yes	1	3
		600	withdrawable	no	no	yes	1	3+4+3P/N
		800	withdrawable	no	no	yes	2	3
		1000	withdrawable	no	no	yes	2	3
		1000	withdrawable	no	no	yes	2	3+4+3P/N

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

XP Sections, Single and Side by Side Circuit breaker, withdrawable (continued)

vt19417



Vertical carrier plates between the MCCB modules

Article No. per pack/unit
XTPPCCZ2-D800 180771
XTPPCCZ2-D800 180771
-
-
-
XTPPCCZ2-D800 180771
XTPPCCZ2-D800 180771
XTPPCCZ2-D800 180771

vt72015



Fitting kit for NZM4 incl. mounting plate, fixing brackets and screws

Article No. per pack/unit
XTMP2N4FM-H550W1000 180709
XTMP2N4FM-H550W1000 180709
XTMPN4FM-H550W425 180706
XTMPN4FM-H550W600 180707
XTMPN4FM-H550W600 180707
XTMP2N4FM-H550W800 180708
XTMP2N4FM-H550W1000 180709
XTMP2N4FM-H550W1000 180709

vt72315



Front plate IP31 incl. fixing brackets and screws

Article No. per pack/unit
-
-
-
-
-
-
-
-

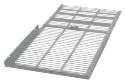
vt18117



Front plate IP42 + IP55 incl. fixing brackets and screws

Article No. per pack/unit
XTMP2N4W3CC-H550W1000 180734 186695*
XTMP2N4W4CC-H550W1000 180735 186696*
XTMPN4WCC-H550W425 180722 186683*
XTMPN4W3CC-H550W600 180723 186684*
XTMPN4W4CC-H550W600 180724 186685*
XTMP2N4WCC-H550W800 180733 186694*
XTMP2N4W3CC-H550W1000 180734 186695*
XTMP2N4W4CC-H550W1000 180735 186696*

vt74015



Horizontal partition between incoming/outgoing contacts of the circuit breaker

Article No. per pack/unit
XTPP2N4BH-W1000 180739
XTPP2N4BH-W1000 180739
XTPPN4BH-W425 180736
XTPPN4BH-W600 180737
XTPPN4BH-W600 180737
XTPP2N4BH-W800 180738
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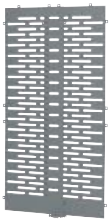
VT67414



Additional contact protection (PVC) at the rear

Article No. per pack/unit
-
-
XTPPVPC-W425 173360
XTPPVPC-W600 173361
XTPPVPC-W600 173361
XTPPVPC-W800 173362
-
-

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

wa_vt70513



Transparent cover of the cable connection area
H = 700 mm

Article No.
per pack/unit

-

-

XTPPVPC-H700W425
174013
186584*

XTPPVPC-H700W600
174014
186585*

XTPPVPC-H700W600
174014
186585*

XTPPVPC-H700W800
174015
186586*

-

-

vt70215



Horizontal partition above/below the circuit breaker

Article No.
per pack/unit

XTPP2N4MEH-W1000D368
180765

XTPP2N4MEH-W1000D368
180765

XTPPN4MEH-W425D368
180762

XTPPN4MEH-W600D368
180763

XTPPN4MEH-W600D368
180763

XTPP2N4MEH-W800D368
180764

XTPP2N4MEH-W1000D368
180765

XTPP2N4MEH-W1000D368
180765

VT59814



Side separation panel consisting of 2 partition panels
H = 700 mm

Article No.
per pack/unit

XTPPSSZ-H700
173052

XTPPSSZ-H700
173052

XTPPSSZ-H700
173052

XTPPSSZ-H700
173052

XTPPSSZ-H700
173052

XTPPSSZ-H700
173052

XTPPSSZ-H700
173052

XTPPSSZ-H700
173052

VT60114



Wiring and control module for XP Sections to be used for XP sections in combination with XTPPSSZ-700 (side separation panel)

Article No.
per pack/unit

-

XTPPCAVC-H700W425
173049

XTPPCAVC-H700W600
173050

XTPPCAVC-H700W600
173050

XTPPCAVC-H700W800
173051

-

-

VT60714



Control module for XP sections
H = 450 mm

Article No.
per pack/unit

XTPZBAVC-H450W1000
on request

XTPZBAVC-H450W1000
on request

XTPZBAVC-H450W425
173103

XTPZBAVC-H450W600
173104

XTPZBAVC-H450W600
173104

XTPZBAVC-H450W800
173105

XTPZBAVC-H450W1000
on request

XTPZBAVC-H450W1000
on request

VT38613



Wiring and control module
H = 250 mm

Article No.
per pack/unit

XTPZBAVC-250W1000
172683

XTPZBAVC-250W1000
172683

XTPZBAVC-250W425
172680

XTPZBAVC-250W600
172681

XTPZBAVC-250W600
172681

XTPZBAVC-250W800
172682

XTPZBAVC-250W1000
172683

XTPZBAVC-250W1000
172683

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

VT38513



Control and wiring duct in combination with control module XTPZBAVC-H250W..

Article No.
per pack/unit

VT62614



Partition
instead of a control module XTPZBAVC-H250W..

Article No.
per pack/unit

wa_vt15013



Cable strain relief rail

Article No.
per pack/unit

wa_vt58313



Fixing brackets
for cable strain relief rail

Article No.
per pack/unit

XTPZAEHD-W1000 173096 186657*	**XTPZBAVP-H250W1000** 173106	**XAR10** 283853	**XNBW-R2** 106740
XTPZAEHD-W1000 173096 186657*	**XTPZBAVP-H250W1000** 173106	**XAR10** 283853	**XNBW-R2** 106740
XTPZAEHD-W425 173102 186663*	**XTPZBAVP-H250W425** 173110	**XAR04** 283850	**XNBW-R2** 106740
XTPZAEHD-W600 173100 186661*	**XTPZBAVP-H250W600** 173111	**XAR06** 283851	**XNBW-R2** 106740
XTPZAEHD-W600 173100 186661*	**XTPZBAVP-H250W600** 173111	**XAR06** 283851	**XNBW-R2** 106740
XTPZAEHD-W800 173101 186662*	**XTPZBAVP-H250W800** 173041	**XAR08** 283852	**XNBW-R2** 106740
XTPZAEHD-W1000 173096 186657*	**XTPZBAVP-H250W1000** 173106	**XAR10** 283853	**XNBW-R2** 106740
XTPZAEHD-W1000 173096 186657*	**XTPZBAVP-H250W1000** 173106	**XAR10** 283853	**XNBW-R2** 106740

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

	I_{cc} up to (400 V AC) kA	Section width mm	Installation type	Mechanical lock	Remote drive	Rotary drive	Breakers/EBS	Poles
Circuit breaker								
NZM4		425	fixed	no	no	no	1	3
		600	fixed	no	no	no	1	3+4+3P/N
		425	fixed	yes	no	no	1	3
		600	fixed	yes	no	no	1	3+4+3P/N
		425	fixed	no	yes	no	1	3
		600	fixed	no	yes	no	1	3+4+3P/N
		425	fixed	no	no	yes	1	3
		600	fixed	no	no	yes	1	3+4+3P/N

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

vt72015



Fitting kit for NZM4
incl. mounting plate,
fixing brackets and screws

Article No. per pack/unit
XTMPN4FM-H550W425 180706
XTMPN4FM-H550W600 180707
XTMPN4FM-H550W425 180706
XTMPN4FM-H550W600 180707
XTMPN4FM-H550W425 180706
XTMPN4FM-H550W600 180707
XTMPN4FM-H550W425 180706
XTMPN4FM-H550W600 180707

vt72315



Front plate IP31
incl. fixing brackets and screws

Article No. per pack/unit
XTMPN4FC-H550W425 180714 186500*
XTMPN4FC-H550W600 180715 186501*
XTMPN4FC-H550W425 180714 186500*
XTMPN4FC-H550W600 180715 186501*
XTMPN4FC-H550W425 180714 186500*
XTMPN4FC-H550W600 180715 186501*
XTMPN4FC-H550W425 180714 186500*
XTMPN4FC-H550W600 180715 186501*

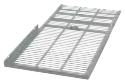
vt18117



Front plate IP42 + IP55
incl. fixing brackets and screws

Article No. per pack/unit
XTMPN4FCC-H550W425 180716 186502*
XTMPN4FCC-H550W600 180717 186503*
XTMPN4FCC-H550W425 180716 186502*
XTMPN4FCC-H550W600 180717 186503*
XTMPN4FCC-H550W425 180716 186502*
XTMPN4FCC-H550W600 180717 186503*
XTMPN4FCC-H550W425 180716 186502*
XTMPN4FCC-H550W600 180717 186503*

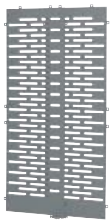
vt74015



Horizontal partition
between incoming/outgoing contacts of the circuit breaker

Article No. per pack/unit
XTPPN4BH-W425 180736
XTPPN4BH-W600 180737
XTPPN4BH-W425 180736
XTPPN4BH-W600 180737
XTPPN4BH-W425 180736
XTPPN4BH-W600 180737
XTPPN4BH-W425 180736
XTPPN4BH-W600 180737

VT67414



Additional contact protection (PVC) at the rear

Article No. per pack/unit
XTPPVPC-W425 173360
XTPPVPC-W600 173361
XTPPVPC-W425 173360
XTPPVPC-W600 173361
XTPPVPC-W425 173360
XTPPVPC-W600 173361
XTPPVPC-W425 173360
XTPPVPC-W600 173361

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

wa_vt70513



Transparent cover of the cable connection area
H = 700 mm

Article No.
per pack/unit

vt74315



Horizontal partition above/below the circuit breaker

Article No.
per pack/unit

VT59814



Side separation panel consisting of 2 partition panels
H = 700 mm

Article No.
per pack/unit

VT60114



Wiring and control module for XP Sections to be used for XP sections in combination with XTPPSSZ-700 (side separation panel)

Article No.
per pack/unit

VT60714



Control module for XP sections
H = 450 mm

Article No.
per pack/unit

VT38613



Wiring and control module
H = 250 mm

Article No.
per pack/unit

XTPPVPC-H700W425 174013 186584*	**XTPPN4MEH-W425D116** 180742	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W425** 173049	**XTPZBAVC-H450W425** 173103	**XTPZBAVC-250W425** 172680
XTPPVPC-H700W600 174014 186585*	**XTPPN4MEH-W600D116** 180743	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W600** 173050	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-250W600** 172681
XTPPVPC-H700W425 174013 186584*	**XTPPN4MEH-W425D211** 180754	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W425** 173049	**XTPZBAVC-H450W425** 173103	**XTPZBAVC-250W425** 172680
XTPPVPC-H700W600 174014 186585*	**XTPPN4MEH-W600D211** 180755	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W600** 173050	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-250W600** 172681
XTPPVPC-H700W425 174013 186584*	**XTPPN4MEH-W425D291** 180750	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W425** 173049	**XTPZBAVC-H450W425** 173103	**XTPZBAVC-250W425** 172680
XTPPVPC-H700W600 174014 186585*	**XTPPN4MEH-W600D291** 180751	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W600** 173050	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-250W600** 172681
XTPPVPC-H700W425 174013 186584*	**XTPPN4MEH-W425D168** 180746	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W425** 173049	**XTPZBAVC-H450W425** 173103	**XTPZBAVC-250W425** 172680
XTPPVPC-H700W600 174014 186585*	**XTPPN4MEH-W600D168** 180747	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W600** 173050	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-250W600** 172681

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

xEnergy Main Switchboards

XP Sections, Stacked Circuit breaker, fixed

VT38513



Control and wiring duct in combination with control module XTPZBAVC-H250W..

Article No. per pack/unit
XTPZAEHD-W425 173102 186663*
XTPZAEHD-W600 173100 186661*
XTPZAEHD-W425 173102 186663*
XTPZAEHD-W600 173100 186661*
XTPZAEHD-W425 173102 186663*
XTPZAEHD-W600 173100 186661*
XTPZAEHD-W425 173102 186663*
XTPZAEHD-W600 173100 186661*

VT62614



Partition
instead of a control module XTPZBAVC-H250W..

Article No. per pack/unit
XTPZBAVP-H250W425 173110
XTPZBAVP-H250W600 173111
XTPZBAVP-H250W425 173110
XTPZBAVP-H250W600 173111
XTPZBAVP-H250W425 173110
XTPZBAVP-H250W600 173111
XTPZBAVP-H250W425 173110
XTPZBAVP-H250W600 173111

vt02215



Tragschienen
for mittlere Hauptsammelschiene

Article No. per pack/unit
XTBZF1-W425 177127
XTBZF1-W600 177128
XTBZF1-W425 177127
XTBZF1-W600 177128
XTBZF1-W425 177127
XTBZF1-W600 177128
XTBZF1-W425 177127
XTBZF1-W600 177128

vt00715



Partition
vor Hauptsammelschiene bei mittlere Position

Article No. per pack/unit
XTPZBAVP-H350W425 177134
XTPZBAVP-H350W600 177135
XTPZBAVP-H350W425 177134
XTPZBAVP-H350W600 177135
XTPZBAVP-H350W425 177134
XTPZBAVP-H350W600 177135
XTPZBAVP-H350W425 177134
XTPZBAVP-H350W600 177135

wa_vt15013



Cable strain relief rail

Article No. per pack/unit
XAR04 283850
XAR06 283851
XAR04 283850
XAR06 283851
XAR04 283850
XAR06 283851
XAR04 283850
XAR06 283851

wa_vt58313



Fixing brackets
for cable strain relief rail

Article No. per pack/unit
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

	I_{cc} up to (400 V AC) kA	Section width mm	Installation type	Mechanical lock	Remote drive	Rotary drive	Breakers/EBS	Poles
Circuit breaker								
NZM4		425	withdrawable	no	no	no	1	3
		600	withdrawable	no	no	no	1	3
		600	withdrawable	no	no	no	1	3+4+3P/N
		425	withdrawable	no	yes	no	1	3
		600	withdrawable	no	yes	no	1	3
		600	withdrawable	no	yes	no	1	3+4+3P/N
		425	withdrawable	no	no	yes	1	3
		600	withdrawable	no	no	yes	1	3
		600	withdrawable	no	no	yes	1	3+4+3P/N

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

vt72015



Fitting kit for NZM4
incl. mounting plate,
fixing brackets and screws

Article No. per pack/unit
XTMPN4FM-H550W425 180706
XTMPN4FM-H550W600 180707
XTMPN4FM-H550W600 180707
XTMPN4FM-H550W425 180706
XTMPN4FM-H550W600 180707
XTMPN4FM-H550W600 180707
XTMPN4FM-H550W425 180706
XTMPN4FM-H550W600 180707
XTMPN4FM-H550W600 180707

vt72315



Front plate IP31
incl. fixing brackets and screws

Article No. per pack/unit
-
-
-
-
-
-
-
-
-

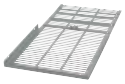
vt69715



Front plate IP42 + IP55
incl. fixing brackets and screws

Article No. per pack/unit
XTMPN4WCC-H550W425 180722 186683*
XTMPN4W3CC-H550W600 180723 186684*
XTMPN4W4CC-H550W600 180724 186685*
XTMPN4WCC-H550W425 180722 186683*
XTMPN4W3CC-H550W600 180723 186684*
XTMPN4W4CC-H550W600 180724 186685*
XTMPN4WCC-H550W425 180722 186683*
XTMPN4W3CC-H550W600 180723 186684*
XTMPN4W4CC-H550W600 180724 186685*

vt74015



Horizontal partition
between incoming/outgoing contacts of the circuit breaker

Article No. per pack/unit
XTPPN4BH-W425 180736
XTPPN4BH-W600 180737
XTPPN4BH-W600 180737
XTPPN4BH-W425 180736
XTPPN4BH-W600 180737
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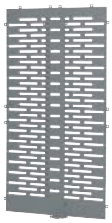
XTPPN4BH-W600 180737

VT67414



Additional contact protection (PVC) at the rear

Article No. per pack/unit
XTPPVPC-W425 173360
XTPPVPC-W600 173361
XTPPVPC-W600 173361
XTPPVPC-W425 173360
XTPPVPC-W600 173361
XTPPVPC-W600 173361
XTPPVPC-W425 173360
XTPPVPC-W600 173361
XTPPVPC-W600 173361

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

wa_vt70513



Transparent cover of the cable connection area
H = 700 mm

Article No.
per pack/unit

vt70015



Horizontal partition above/below the circuit breaker

Article No.
per pack/unit

VT59814



Side separation panel consisting of 2 partition panels
H = 700 mm

Article No.
per pack/unit

VT60114



Wiring and control module for XP Sections to be used for XP sections in combination with XTPPSSZ-700 (side separation panel)

Article No.
per pack/unit

VT60714



Control module for XP sections
H = 450 mm

Article No.
per pack/unit

VT38613



Wiring and control module
H = 250 mm

Article No.
per pack/unit

XTPPVPC-H700W425 174013 186584*	**XTPPN4MEH-W425D281** 180758	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W425** 173049	**XTPZBAVC-H450W425** 173103	**XTPZBAVC-250W425** 172680
XTPPVPC-H700W600 174014 186585*	**XTPPN4MEH-W600D281** 180759	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W600** 173050	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-250W600** 172681
XTPPVPC-H700W600 174014 186585*	**XTPPN4MEH-W600D281** 180759	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W600** 173050	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-250W600** 172681
XTPPVPC-H700W425 174013 186584*	**XTPPN4MEH-W425D368** 180762	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W425** 173049	**XTPZBAVC-H450W425** 173103	**XTPZBAVC-250W425** 172680
XTPPVPC-H700W600 174014 186585*	**XTPPN4MEH-W600D368** 180763	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W600** 173050	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-250W600** 172681
XTPPVPC-H700W600 174014 186585*	**XTPPN4MEH-W600D368** 180763	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W600** 173050	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-250W600** 172681
XTPPVPC-H700W425 174013 186584*	**XTPPN4MEH-W425D368** 180762	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W425** 173049	**XTPZBAVC-H450W425** 173103	**XTPZBAVC-250W425** 172680
XTPPVPC-H700W600 174014 186585*	**XTPPN4MEH-W600D368** 180763	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W600** 173050	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-250W600** 172681
XTPPVPC-H700W600 174014 186585*	**XTPPN4MEH-W600D368** 180763	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W600** 173050	**XTPZBAVC-H450W600** 173104	**XTPZBAVC-250W600** 172681

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

xEnergy Main Switchboards

XP Sections, Stacked Circuit breaker, withdrawable

VT38513



Control and wiring duct in combination with control module XTPZBAVC-H250W..

Article No. per pack/unit
XTPZAEHD-W425 173102 186663*
XTPZAEHD-W600 173100 186661*
XTPZAEHD-W600 173100 186661*
XTPZAEHD-W425 173102 186663*
XTPZAEHD-W600 173100 186661*
XTPZAEHD-W600 173100 186661*
XTPZAEHD-W425 173102 186663*
XTPZAEHD-W600 173100 186661*
XTPZAEHD-W600 173100 186661*

VT62614



Partition
instead of a control module XTPZBAVC-H250W..

Article No. per pack/unit
XTPZBAVP-H250W425 173110
XTPZBAVP-H250W600 173111
XTPZBAVP-H250W600 173111
XTPZBAVP-H250W425 173110
XTPZBAVP-H250W600 173111
XTPZBAVP-H250W600 173111
XTPZBAVP-H250W425 173110
XTPZBAVP-H250W600 173111
XTPZBAVP-H250W600 173111

vt02215



Tragschienen
for mittlere Hauptsammelschiene

Article No. per pack/unit
XTBZF1-W425 177127
XTBZF1-W600 177128
XTBZF1-W600 177128
XTBZF1-W425 177127
XTBZF1-W600 177128
XTBZF1-W600 177128
XTBZF1-W425 177127
XTBZF1-W600 177128
XTBZF1-W600 177128

vt00715



Partition
vor Hauptsammelschiene bei mittlere Position

Article No. per pack/unit
XTPZBAVP-H350W425 177134
XTPZBAVP-H350W600 177135
XTPZBAVP-H350W600 177135
XTPZBAVP-H350W425 177134
XTPZBAVP-H350W600 177135
XTPZBAVP-H350W600 177135
XTPZBAVP-H350W425 177134
XTPZBAVP-H350W600 177135
XTPZBAVP-H350W600 177135

wa_vt15013



Cable strain relief rail

Article No. per pack/unit
XAR04 283850
XAR06 283851
XAR06 283851
XAR04 283850
XAR06 283851
XAR06 283851
XAR04 283850
XAR06 283851
XAR06 283851

wa_vt58313



Fixing brackets
for cable strain relief rail

Article No. per pack/unit
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

	I_{cc} up to (400 V AC) kA	Section width mm	Installation type	Mechanical lock	Remote drive	Rotary drive	Breakers/EBS	Poles
Circuit breaker								
NZM4		800	fixed	no	no	no	2	3
		1000	fixed	no	no	no	2	3+4+3P/N
		800	fixed	yes	no	no	2	3
		1000	fixed	yes	no	no	2	3+4+3P/N
		800	fixed	no	yes	no	2	3
		1000	fixed	no	yes	no	2	3+4+3P/N
		800	fixed	no	no	yes	2	3
		1000	fixed	no	no	yes	2	3+4+3P/N

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

xEnergy Main Switchboards

XP Sections, 4x Circuit breaker, fixed

vt19517



Vertical carrier plates between the MCCB modules

vt71815



Fitting kit for NZM4 incl. mounting plate, fixing brackets and screws

vt72215



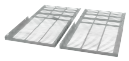
Front plate IP31 incl. fixing brackets and screws

vt14017



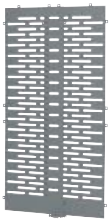
Front plate IP42 + IP55 incl. fixing brackets and screws

vt73915



Horizontal partition between incoming/outgoing contacts of the circuit breaker

VT67414



Additional contact protection (PVC) at the rear

Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
XTPPCCZ3-D800 180772	**XTMP2N4FM-H550W800** 180708	**XTMP2N4FC-H550W800** 180725 186686*	**XTMP2N4FCC-H550W800** 180727 186688*	**XTPP2N4BH-W800** 180738	**XTPPVPC-W800** 173362
XTPPCCZ3-D800 180772	**XTMP2N4FM-H550W1000** 180709	**XTMP2N4FC-H550W1000** 180726 186687*	**XTMP2N4FCC-H550W1000** 180728 186689*	**XTPP2N4BH-W1000** 180739	-
XTPPCCZ3-D800 180772	**XTMP2N4FM-H550W800** 180708	**XTMP2N4FC-H550W800** 180725 186686*	**XTMP2N4FCC-H550W800** 180727 186688*	**XTPP2N4BH-W800** 180738	**XTPPVPC-W800** 173362
XTPPCCZ3-D800 180772	**XTMP2N4FM-H550W1000** 180709	**XTMP2N4FC-H550W1000** 180726 186687*	**XTMP2N4FCC-H550W1000** 180728 186689*	**XTPP2N4BH-W1000** 180739	-
XTPPCCZ3-D800 180772	**XTMP2N4FM-H550W800** 180708	**XTMP2N4FC-H550W800** 180725 186686*	**XTMP2N4FCC-H550W800** 180727 186688*	**XTPP2N4BH-W800** 180738	**XTPPVPC-W800** 173362
XTPPCCZ3-D800 180772	**XTMP2N4FM-H550W1000** 180709	**XTMP2N4FC-H550W1000** 180726 186687*	**XTMP2N4FCC-H550W1000** 180728 186689*	**XTPP2N4BH-W1000** 180739	-
XTPPCCZ3-D800 180772	**XTMP2N4FM-H550W800** 180708	**XTMP2N4FC-H550W800** 180725 186686*	**XTMP2N4FCC-H550W800** 180727 186688*	**XTPP2N4BH-W800** 180738	**XTPPVPC-W800** 173362
XTPPCCZ3-D800 180772	**XTMP2N4FM-H550W1000** 180709	**XTMP2N4FC-H550W1000** 180726 186687*	**XTMP2N4FCC-H550W1000** 180728 186689*	**XTPP2N4BH-W1000** 180739	-

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

wa_vt70513



Transparent cover of the cable connection area
H = 700 mm

Article No.
per pack/unit

vt70415



Horizontal partition above/below the circuit breaker

Article No.
per pack/unit

VT59814



Side separation panel consisting of 2 partition panels
H = 700 mm

Article No.
per pack/unit

VT60114



Wiring and control module for XP Sections to be used for XP sections in combination with XTPPSSZ-700 (side separation panel)

Article No.
per pack/unit

VT60714



Control module for XP sections
H = 450 mm

Article No.
per pack/unit

VT38413



Wiring and control module
H = 250 mm

Article No.
per pack/unit

XTPPVPC-H700W800 174015 186586*	**XTPP2N4MEH-W800D116** 180744	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W800** 173051	**XTPZBAVC-H450W800** 173105	**XTPZBAVC-250W800** 172682
-	**XTPP2N4MEH-W1000D116** 180745	**XTPPSSZ-H700** 173052	-	**XTPZBAVC-H450W1000** on request	**XTPZBAVC-250W1000** 172683
XTPPVPC-H700W800 174015 186586*	**XTPP2N4MEH-W800D211** 180756	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W800** 173051	**XTPZBAVC-H450W800** 173105	**XTPZBAVC-250W800** 172682
-	**XTPP2N4MEH-W1000D211** 180757	**XTPPSSZ-H700** 173052	-	**XTPZBAVC-H450W1000** on request	**XTPZBAVC-250W1000** 172683
XTPPVPC-H700W800 174015 186586*	**XTPP2N4MEH-W800D291** 180752	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W800** 173051	**XTPZBAVC-H450W800** 173105	**XTPZBAVC-250W800** 172682
-	**XTPP2N4MEH-W1000D291** 180753	**XTPPSSZ-H700** 173052	-	**XTPZBAVC-H450W1000** on request	**XTPZBAVC-250W1000** 172683
XTPPVPC-H700W800 174015 186586*	**XTPP2N4MEH-W800D168** 180748	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W800** 173051	**XTPZBAVC-H450W800** 173105	**XTPZBAVC-250W800** 172682
-	**XTPP2N4MEH-W1000D168** 180749	**XTPPSSZ-H700** 173052	-	**XTPZBAVC-H450W1000** on request	**XTPZBAVC-250W1000** 172683

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

VT38513



Control and wiring duct in combination with control module XTPZBAVC-H250W..

Article No. per pack/unit

XTPZAEHD-W800
173101
186662*

XTPZAEHD-W1000
173096
186657*

VT62614



Partition instead of a control module XTPZBAVC-H250W..

Article No. per pack/unit

XTPZBAVP-H250W800
173041

XTPZBAVP-H250W1000
173106

vt01815



Tragschienen for mittlere Hauptsammelschiene

Article No. per pack/unit

XTBZF1-W800
177129

XTBZF1-W1000
177130

vt00715



Partition vor Hauptsammelschiene bei mittlere Position

Article No. per pack/unit

XTPZBAVP-H350W800
177136

XTPZBAVP-H350W1000
177137

wa_vt15013



Cable strain relief rail

Article No. per pack/unit

XAR08
283852

XAR10
283853

wa_vt58313



Fixing brackets for cable strain relief rail

Article No. per pack/unit

XNBW-R2
106740

XTPZAEHD-W800 173101 186662*	**XTPZBAVP-H250W800** 173041	**XTBZF1-W800** 177129	**XTPZBAVP-H350W800** 177136	**XAR08** 283852	**XNBW-R2** 106740
XTPZAEHD-W1000 173096 186657*	**XTPZBAVP-H250W1000** 173106	**XTBZF1-W1000** 177130	**XTPZBAVP-H350W1000** 177137	**XAR10** 283853	**XNBW-R2** 106740
XTPZAEHD-W800 173101 186662*	**XTPZBAVP-H250W800** 173041	**XTBZF1-W800** 177129	**XTPZBAVP-H350W800** 177136	**XAR08** 283852	**XNBW-R2** 106740
XTPZAEHD-W1000 173096 186657*	**XTPZBAVP-H250W1000** 173106	**XTBZF1-W1000** 177130	**XTPZBAVP-H350W1000** 177137	**XAR10** 283853	**XNBW-R2** 106740
XTPZAEHD-W800 173101 186662*	**XTPZBAVP-H250W800** 173041	**XTBZF1-W800** 177129	**XTPZBAVP-H350W800** 177136	**XAR08** 283852	**XNBW-R2** 106740
XTPZAEHD-W1000 173096 186657*	**XTPZBAVP-H250W1000** 173106	**XTBZF1-W1000** 177130	**XTPZBAVP-H350W1000** 177137	**XAR10** 283853	**XNBW-R2** 106740
XTPZAEHD-W800 173101 186662*	**XTPZBAVP-H250W800** 173041	**XTBZF1-W800** 177129	**XTPZBAVP-H350W800** 177136	**XAR08** 283852	**XNBW-R2** 106740
XTPZAEHD-W1000 173096 186657*	**XTPZBAVP-H250W1000** 173106	**XTBZF1-W1000** 177130	**XTPZBAVP-H350W1000** 177137	**XAR10** 283853	**XNBW-R2** 106740

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

	I_{cc} up to (400 V AC) kA	Section width mm	Installation type	Mechanical lock	Remote drive	Rotary drive	Breakers/EBS	Poles
Circuit breaker								
NZM4		800	withdrawable	no	no	no	2	3
		1000	withdrawable	no	no	no	2	3
		1000	withdrawable	no	no	no	2	3+4+3P/N
		800	withdrawable	no	yes	no	2	3
		1000	withdrawable	no	yes	no	2	3
		1000	withdrawable	no	yes	no	2	3+4+3P/N
		800	withdrawable	no	no	yes	2	3
		1000	withdrawable	no	no	yes	2	3
		1000	withdrawable	no	no	yes	2	3+4+3P/N

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

xEnergy Main Switchboards

XP Sections, 4x Circuit breaker, withdrawable

vt19517



Vertical carrier plates between the MCCB modules

vt71815



Fitting kit for NZM4 incl. mounting plate, fixing brackets and screws

vt72215



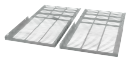
Front plate IP31 incl. fixing brackets and screws

vt69415



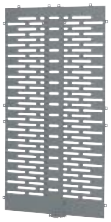
Front plate IP42 + IP55 incl. fixing brackets and screws

vt73915



Horizontal partition between incoming/outgoing contacts of the circuit breaker

VT67414



Additional contact protection (PVC) at the rear

Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
XTPPCCZ3-D800 180772	**XTMP2N4FM-H550W800** 180708	-	**XTMP2N4WCC-H550W800** 180733 186694*	**XTPP2N4BH-W800** 180738	**XTPPVPC-W800** 173362
XTPPCCZ3-D800 180772	**XTMP2N4FM-H550W1000** 180709	-	**XTMP2N4W3CC-H550W1000** 180734 186695*	**XTPP2N4BH-W1000** 180739	-
XTPPCCZ3-D800 180772	**XTMP2N4FM-H550W1000** 180709	-	**XTMP2N4W4CC-H550W1000** 180735 186696*	**XTPP2N4BH-W1000** 180739	-
XTPPCCZ3-D800 180772	**XTMP2N4FM-H550W800** 180708	-	**XTMP2N4WCC-H550W800** 180733 186694*	**XTPP2N4BH-W800** 180738	**XTPPVPC-W800** 173362
XTPPCCZ3-D800 180772	**XTMP2N4FM-H550W1000** 180709	-	**XTMP2N4W3CC-H550W1000** 180734 186695*	**XTPP2N4BH-W1000** 180739	-
XTPPCCZ3-D800 180772	**XTMP2N4FM-H550W1000** 180709	-	**XTMP2N4W4CC-H550W1000** 180735 186696*	**XTPP2N4BH-W1000** 180739	-
XTPPCCZ3-D800 180772	**XTMP2N4FM-H550W800** 180708	-	**XTMP2N4WCC-H550W800** 180733 186694*	**XTPP2N4BH-W800** 180738	**XTPPVPC-W800** 173362
XTPPCCZ3-D800 180772	**XTMP2N4FM-H550W1000** 180709	-	**XTMP2N4W3CC-H550W1000** 180734 186695*	**XTPP2N4BH-W1000** 180739	-
XTPPCCZ3-D800 180772	**XTMP2N4FM-H550W1000** 180709	-	**XTMP2N4W4CC-H550W1000** 180735 186696*	**XTPP2N4BH-W1000** 180739	-

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

wa_vt70513



Transparent cover of the cable connection area
H = 700 mm

Article No.
per pack/unit

vt74315



Horizontal partition above/below the circuit breaker

Article No.
per pack/unit

VT59814



Side separation panel consisting of 2 partition panels
H = 700 mm

Article No.
per pack/unit

VT60114



Wiring and control module for XP Sections to be used for XP sections in combination with XTPPSSZ-700 (side separation panel)

Article No.
per pack/unit

VT60714



Control module for XP sections
H = 450 mm

Article No.
per pack/unit

VT38413



Wiring and control module
H = 250 mm

Article No.
per pack/unit

XTPPVPC-H700W800 174015 186586*	**XTPPN4MEH-W800D281** 180760	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W800** 173051	**XTPZBAVC-H450W800** 173105	**XTPZBAVC-250W800** 172682
-	**XTPPN4MEH-W1000D281** 180761	**XTPPSSZ-H700** 173052	-	**XTPZBAVC-H450W1000** on request	**XTPZBAVC-250W1000** 172683
-	**XTPPN4MEH-W1000D281** 180761	**XTPPSSZ-H700** 173052	-	**XTPZBAVC-H450W1000** on request	**XTPZBAVC-250W1000** 172683
XTPPVPC-H700W800 174015 186586*	**XTPP2N4MEH-W800D368** 180764	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W800** 173051	**XTPZBAVC-H450W800** 173105	**XTPZBAVC-250W800** 172682
-	**XTPP2N4MEH-W1000D368** 180765	**XTPPSSZ-H700** 173052	-	**XTPZBAVC-H450W1000** on request	**XTPZBAVC-250W1000** 172683
-	**XTPP2N4MEH-W1000D368** 180765	**XTPPSSZ-H700** 173052	-	**XTPZBAVC-H450W1000** on request	**XTPZBAVC-250W1000** 172683
XTPPVPC-H700W800 174015 186586*	**XTPP2N4MEH-W800D368** 180764	**XTPPSSZ-H700** 173052	**XTPPCAVC-H700W800** 173051	**XTPZBAVC-H450W800** 173105	**XTPZBAVC-250W800** 172682
-	**XTPP2N4MEH-W1000D368** 180765	**XTPPSSZ-H700** 173052	-	**XTPZBAVC-H450W1000** on request	**XTPZBAVC-250W1000** 172683
-	**XTPP2N4MEH-W1000D368** 180765	**XTPPSSZ-H700** 173052	-	**XTPZBAVC-H450W1000** on request	**XTPZBAVC-250W1000** 172683

Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

xEnergy Main Switchboards

XP Sections, 4x Circuit breaker, withdrawable

VT38513



Control and wiring duct in combination with control module XTPZBAVC-H250W..

Article No. per pack/unit
XTPZAEHD-W800 173101 186662*
XTPZAEHD-W1000 173096 186657*
XTPZAEHD-W1000 173096 186657*
XTPZAEHD-W800 173101 186662*
XTPZAEHD-W1000 173096 186657*
XTPZAEHD-W1000 173096 186657*
XTPZAEHD-W800 173101 186662*
XTPZAEHD-W1000 173096 186657*
XTPZAEHD-W1000 173096 186657*

VT62614



Partition
instead of a control module XTPZBAVC-H250W..

Article No. per pack/unit
XTPZBAVP-H250W800 173041
XTPZBAVP-H250W1000 173106
XTPZBAVP-H250W1000 173106
XTPZBAVP-H250W800 173041
XTPZBAVP-H250W1000 173106
XTPZBAVP-H250W1000 173106
XTPZBAVP-H250W800 173041
XTPZBAVP-H250W1000 173106
XTPZBAVP-H250W1000 173106

vt02015



Tragschienen
for mittlere Hauptsammelschiene

Article No. per pack/unit
XTBZF1-W800 177129
XTBZF1-W1000 177130
XTBZF1-W1000 177130
XTBZF1-W800 177129
XTBZF1-W1000 177130
XTBZF1-W1000 177130
XTBZF1-W800 177129
XTBZF1-W1000 177130
XTBZF1-W1000 177130

vt00715



Partition
vor Hauptsammelschiene bei mittlere Position

Article No. per pack/unit
XTPZBAVP-H350W800 177136
XTPZBAVP-H350W1000 177137
XTPZBAVP-H350W1000 177137
XTPZBAVP-H350W800 177136
XTPZBAVP-H350W1000 177137
XTPZBAVP-H350W1000 177137
XTPZBAVP-H350W800 177136
XTPZBAVP-H350W1000 177137
XTPZBAVP-H350W1000 177137

wa_vt15013



Cable strain relief rail

Article No. per pack/unit
XAR08 283852
XAR10 283853
XAR10 283853
XAR08 283852
XAR10 283853
XAR10 283853
XAR08 283852
XAR10 283853
XAR10 283853

wa_vt58313



Fixing brackets
for cable strain relief rail

Article No. per pack/unit
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740
XNBW-R2 106740

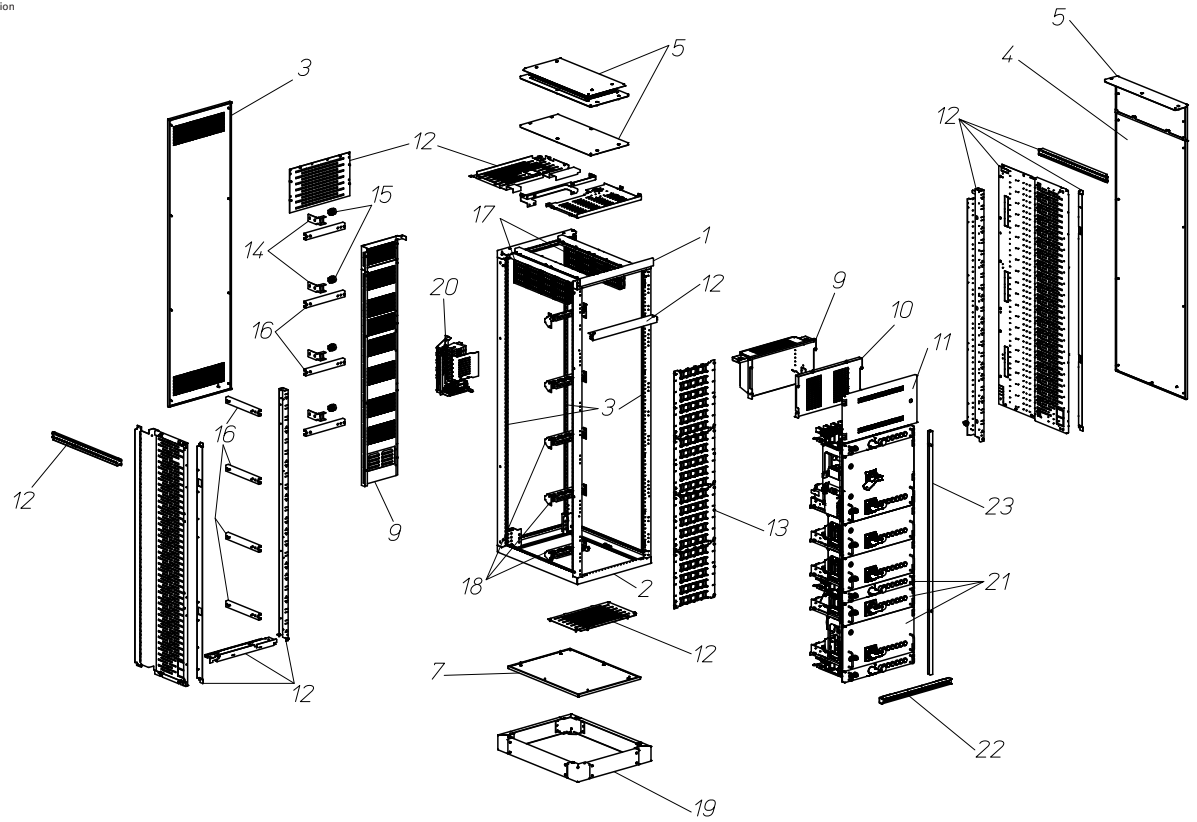
Note

* Finish in special RAL colour
Combination is possible, but only with an IP55 cover. To install a rotary drive, for example, the inner front plate (mobile part) has to be removed.

Notes

Description

XW_Explosion



1 Frame - top
2 Frame - bottom
3 Vertical profiles
4 Side panel
5 Corner element for side panel
6 Top panel
7 Bottom panel
8 Rear panel
9 Wiring/control module
10 Partition main busbar
11 Door to control module
12 Fitting kit
13 Partition dropper bar
14 Bracket PE dropper bar
15 Insulators N conductor
16 Cable strain relief rail
17 Main busbar support
18 Dropper bar supports
19 Plinth
20 Terminal cable box
21 Drawer modules
22 Covers for empty sections
23 Front filler
24 Front filler vertical

Features

- Widths: 600, 800, 1000 mm (widths of 800 and 1000 mm come with a door to the cable connection area)
- Module width: 600 mm
- Form 4 up to type 7
- 3, 4, 3P+N
- IP31, IP42, IP55
- Drawer modules optionally with plastic or steel front plates
- Dropper bar 1600-2000 A
- Cable connection area at the rear
- Each module has a separate cable connection box
- Tilted position of the cable connection box for ideal connection conditions
- Can be used as standard drawer modules, from 75-450 mm height
- Mounting kits of 600 and 750 mm height are available for fixed modules
- Max. module height available = 1575 mm / 21 modules

Notes

- Frame comes with a blue design strip (at the top)
- Doors include a locking system for a 3 mm two-way key-bit
- For cable guidance from the top you need to install an additional cable guidance section at the rear of the system
- With cover panels consisting of several parts it may be necessary to ensure the required degree of protection through additional measures
- The max. height available for mounting plates is 1600 mm
- The max. installation height available in the control module ist 280 mm
- For flanges, clip-down handles, eyebolts, 180° hinges, fixing brackets, Durostone posts, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter “General Accessories“.

wa_vt03514



VT34713



VT35113



VT37913



VT37813



VT39413



Section width mm	Cable connection area at the side	XW Fitting kit left and right multi-mounting side panel, for width 600 mm Article No. per pack/unit	XW Extension kits in combination with XW fitting kit XTMWS-W600, additional cable connection area at the side Article No. per pack/unit	Set of dropper bar supports for N in XW section, 4 insulators, H = 40 mm Article No. per pack/unit	Set of dropper bar supports for PE in XW section, 4 fixing brackets, incl. screws Article No. per pack/unit	Wiring and control module for installation of various electrical components, for holding a cable duct Article No. per pack/unit
600	no	**XTMWS-W600** 172667 186651*	**-**	**XTDWSVN1** 172663	**XTDWSPE1** 172664	**XTPWBAVC-H325W600** 172677
800	yes (200 mm)	**XTMWS-W600** 172667 186651*	**XTMWC-W800** 172666 186650*	**XTDWSVN1** 172663	**XTDWSPE1** 172664	**XTPWBAVC-H325W800** 172678
1000	yes (400 mm)	**XTMWS-W600** 172667 186651*	**XTMWC-W1000** 172665 186649*	**XTDWSVN1** 172663	**XTDWSPE1** 172664	**XTPWBAVC-H325W1000** 172679

Note * Finish in special RAL colour

Outgoing Section as Motor Control Center with connection at the rear

VT36613



Cover
in front of main busbars instead of a control module,
incl. screws

Article No.
per pack/unit

XTPWBAVP-H325W600 172687
XTPWBAVP-H325W800 172688
XTPWBAVP-H325W1000 172689

VT36213



Door IP31 for control module left and right,
H = 325 mm
incl. hinges,
3 mm two-way key-bit lock and two-way key

Article No.
per pack/unit

XTSZDSQV3-H325W600 172707 186297*
XTSZDSQV3-H325W800 172708 186298*
XTSZDSQV3-H325W1000 172706 186296*

VT36113



Door IP55 for control module left and right,
H = 325 mm
incl. hinges,
3 mm two-way key-bit lock and two-way key

Article No.
per pack/unit

XTSZDSQC-H325W600 172704 186294*
XTSZDSQC-H325W800 172705 186295*
XTSZDSQC-H325W1000 172703 186293*

VT35513



Doors to cable connection area IP31, right-hinged, ventilated, with extension sets for additional cable connection area at the side

Article No.
per pack/unit

-
XTSZDCKV3R-H1625W220 172733 186680*
XTSZDCKV3R-H1625W420 172734 186681*

VT35813



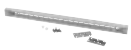
Doors to cable connection area IP55, right-hinged, ventilated, with extension sets for additional cable connection area at the side

Article No.
per pack/unit

-
XTSZDCKC-H1625W220 172731 186654*
XTSZDCKC-H1625W420 172732 186655*

Note * Finish in special RAL colour

VT37213



Compensation cover
IP31,
ventilated,
each fitting kit needs one compensation cover

Article No.
per pack/unit

XTSWFV3 172700 186653*
XTSWFV3 172700 186653*
XTSWFV3 172700 186653*

VT37113



Compensation cover
IP55,
closed,
each fitting kit needs one compensation cover

Article No.
per pack/unit

XTSWFC 172699 186652*
XTSWFC 172699 186652*
XTSWFC 172699 186652*

VT32114



Compensation cover vertical
for XW sections 600mm wide (no cable connection area at the side),
H = 1625 mm, RAL 7035,
each fitting kit needs one compensation cover

Article No.
per pack/unit

XTSWEVDR-H1625 173054 186656*
-
-

VT22413



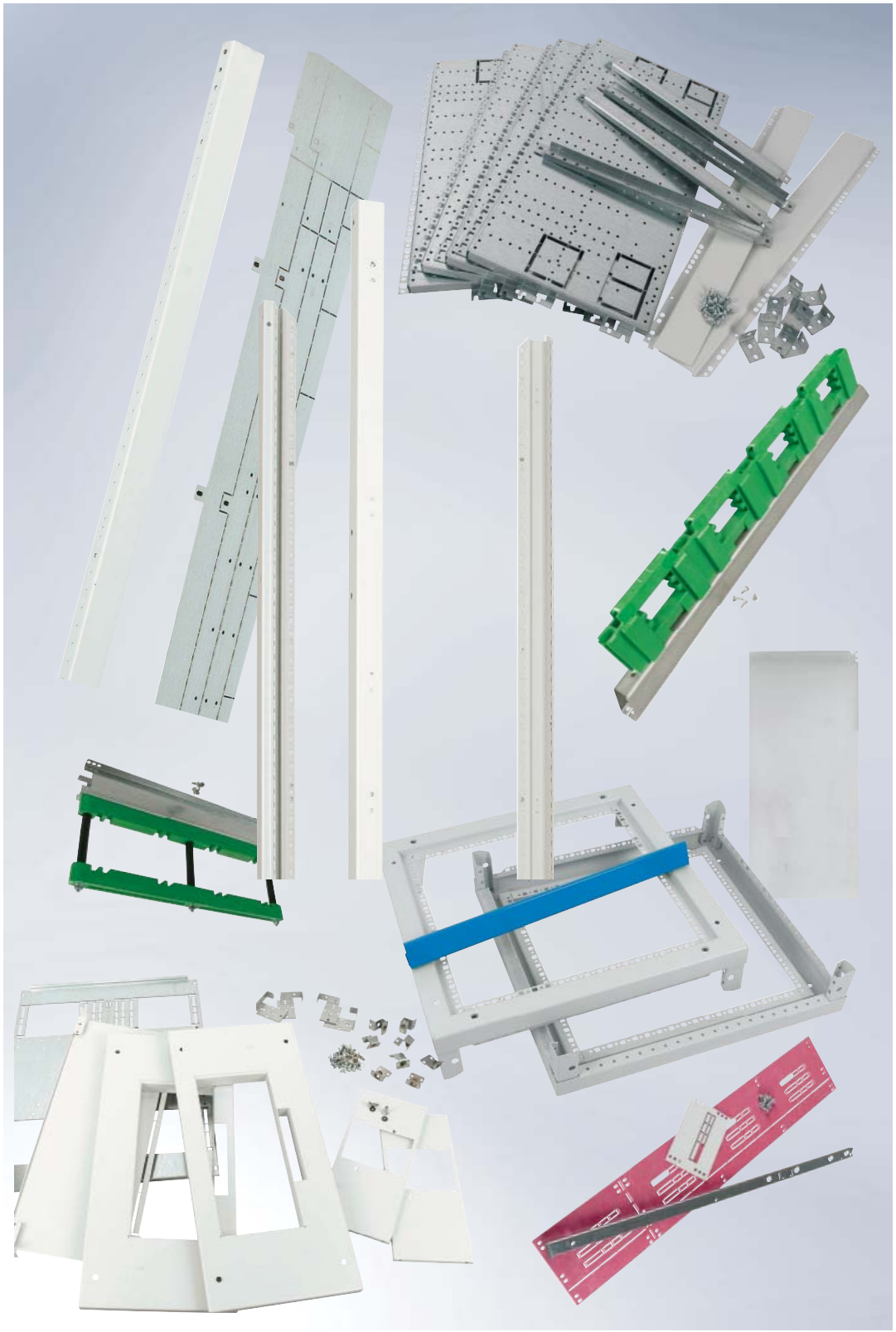
Separation panel section/section
separation panel as high as the section,
each section needs one separation panel,
incl. screws

Article No.
per pack/unit

XTPZSSZ1 172698
XTPZSSZ1 172698
XTPZSSZ1 172698

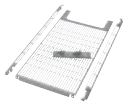
Note * Finish in special RAL colour

Components for Motor Control Center



Fitting kit

VT34714



Section width mm	XW Fitting kit for width 600 mm, left and right multi-mounting side panel, all fixing profiles, incl. screws and partitions Article No. per pack/unit
600	**XTMWS-W600** 172667 186651*

Expansion Sets, Wiring and Control Modules

VT35113



VT39413



Section width mm	XW Expansion Set in combination with XW fitting kit XTMWS-W600, for XW sections with an additional cable connection area at the side (200/400 mm), consisting of cross-supports, mounting straps, vertical mounting, profile, partitions, incl. screws Article No. per pack/unit	Wiring and control module for installation of different electrical components, (circuit breakers, fuses, contactors, terminals, …), prepared for holding a cable duct, pre-punched for openings, control/ auxiliary current compartment Article No. per pack/unit
600	-	**XTPWBAVC-H325W600** 172677
800	**XTMWC-W800** 172666 186650*	**XTPWBAVC-H325W800** 172678
1000	**XTMWC-W1000** 172665 186649*	**XTPWBAVC-H325W1000** 172679

Covers, Doors

VT36613



VT36213



VT36113



Section width mm	Cover in front of main busbar to cover the main busbar if no control module is used, incl. screws Article No. per pack/unit	Door compatible with control module IP31, left and right-hinged, door height is adjusted to control module (H = 325 mm), incl. hinges, 3 mm two-way key-bit lock and two-way key Article No. per pack/unit	Door compatible with control module IP55, closed, left and right-hinged, door height is adjusted to control module (H = 325 mm), incl. hinges, 3 mm two-way key-bit lock and two-way key Article No. per pack/unit
600	**XTPWBAVP-H325W600** 172687	**XTSZDSQV3-H325W600** 172707 186297*	**XTSZDSQC-H325W600** 172704 186294*
800	**XTPWBAVP-H325W800** 172688	**XTSZDSQV3-H325W800** 172708 186298*	**XTSZDSQC-H325W800** 172705 186295*
1000	**XTPWBAVP-H325W1000** 172689	**XTSZDSQV3-H325W1000** 172706 186296*	**XTSZDSQC-H325W1000** 172703 186293*

Note * Finish in special RAL colour

Doors to Cable Connection Area

VT35713



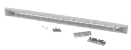
VT35613



Width mm	Doors to cable connection area IP31, ventilated, with extension sets for additional cable connection area at the side, right-hinged, inkl. 3 mm two-way key-bit lock and two-way key, incl. screws	Doors to cable connection area IP55, closed,, with extension sets for additional cable connection area at the side, right-hinged, inkl. 3 mm two-way key-bit lock and two-way key, incl. screws
	Article No. per pack/unit	Article No. per pack/unit
220	**XTSZDCKV3R-H1625W220** 172733 186680*	**XTSZDCKC-H1625W220** 172731 186654*
420	**XTSZDCKV3R-H1625W420** 172734 186681*	**XTSZDCKC-H1625W420** 172732 186655*

Compensation Cover, Vertical Compensation Cover, Separation Panel Section/Section

VT37213



VT32914

VT22413

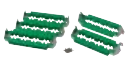


Compensation cover available in IP31 and IP55, ventilated, each fitting kit (width 600, 800, 1000 mm) requires one compensation cover	Compensation cover vertical for XW sections 600mm wide (no cable connection area at the side), each fitting kit requires one vertical compensation cover, H = 1625 mm, RAL 7035	Separation panel section/section separation panel as high as the section, use one separation panel per section, incl. screws
Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
XTSWFV3 172700 186653*	**XTSWEVDR-H1625** 173054 186656*	**XTPZSSZ1** 172698

Note * Finish in special RAL colour

Set of Dropper Bar Supports

VT37013



Set of dropper bar supports 35 kA
dropper bar supports come assembled,
incl. fixing brackets, for 3 or 4-pole use,
for Cu 2x40/10, incl. screws
Article No.
per pack/unit
Pack = 1 Set

XTDWSV2X40X10/35
172657

VT36913



Set of dropper bar supports 65 kA
dropper bar supports come assembled,
incl. fixing brackets, for 3 or 4-pole use,
for Cu 2x40/10, incl. screws
Article No.
per pack/unit
Pack = 1 Set

XTDWSV2X40X10/65
172658

VT36813





Set of dropper bar supports 65 kA
dropper bar supports come assembled,
incl. fixing brackets, for 3 or 4-pole use,
for Cu 2x40/10, incl. screws
Article No.
per pack/unit
Pack = 1 Set

XTDWSV2X40X10/80
172659

Partition Set of Dropper Bar for XW Sections

VT35313



XW Dropper bar partition
galvanized, 35 kA,
busbar currents up to 1000 A, 3-part
partition,
incl. screws
Article No.
per pack/unit
Pack = 1 Set

XTPWDUG35
172673

VT35413



XW Dropper bar partition
galvanized, 65 kA,
busbar currents up to 1000 A, 3-part
partition,
incl. screws
Article No.
per pack/unit
Pack = 1 Set

XTPWDUG65
172674

VT34813



XW Dropper bar partition
stainless steel, 35 kA,
busbar currents from 1000 A up to 1600 A
max., 3-part partition,
incl. screws
Article No.
per pack/unit
Pack = 1 Set

XTPWDUS35
172675

VT35213



XW Dropper bar partition
stainless steel, 50/65/80 kA,
busbar currents from 1000 A up to 1600 A
max., 3-part partition,
incl. screws
Article No.
per pack/unit
Pack = 1 Set

XTPWDUS80
172676

Cable Connection Boxes for XW Sections

VT37713



Cable connection box
H = 75 mm,
modular design,
inkl. all sheet-metal parts,
cable entries and screws

Article No.
per pack/unit
Pack = 1 Set

XTPWCUB-H75
172670

VT37613

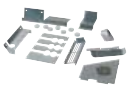


Cable connection box
H = 150 mm,
modular design,
inkl. all sheet-metal parts,
cable entries and screws

Article No.
per pack/unit
Pack = 1 Set

XTPWCUB-H150
172671

VT37513

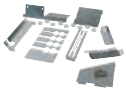


Cable connection box
H = 225 mm,
modular design,
inkl. all sheet-metal parts,
cable entries and screws

Article No.
per pack/unit
Pack = 1 Set

XTPWCUB-H225
172672

VT37413

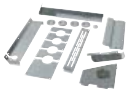


Cable connection box
H = 300 mm,
modular design,
inkl. all sheet-metal parts,
cable entries and screws

Article No.
per pack/unit
Pack = 1 Set

XTPWCUB-H300
172668

VT37313



Cable connection box
H = 450 mm,
modular design,
inkl. all sheet-metal parts,
cable entries and screws

Article No.
per pack/unit
Pack = 1 Set

XTPWCUB-H450
172669

Partition between Switchgear Area and Cable Box in Case of Empty Spaces

VT63714



Partition
H = 75 mm,
for closing the gap at the rear of the switchgear area in case of an empty-space cover

Article No.
per pack/unit
Pack = 1 Set

XTPWCUB-H75
172670

VT63814



Partition
H = 150 mm,
for closing the gap at the rear of the switchgear area in case of an empty-space cover

Article No.
per pack/unit
Pack = 1 Set

XTPWCUB-H150
172671

VT63914

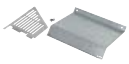


Partition
H = 225 mm,
for closing the gap at the rear of the switchgear area in case of an empty-space cover

Article No.
per pack/unit
Pack = 1 Set

XTPWCUB-H225
172672

VT64014



Partition
H = 300 mm,
for closing the gap at the rear of the switchgear area in case of an empty-space cover

Article No.
per pack/unit
Pack = 1 Set

XTPWCUB-H300
172668

VT64114



Partition
H = 450 mm,
for closing the gap at the rear of the switchgear area in case of an empty-space cover

Article No.
per pack/unit
Pack = 1 Set

XTPWCUB-H450
172669

Partitions between Cable Box and Switchgear Area/Drawer (Shelf Base)

VT65214



Partition for main contacts
for closing the gaps between functional areas, cable connection and switchgear area, compulsory for Form 4, incl. screws

Article No.
per pack/unit
Pack = 1 Set

XTPWCUA1
173329

VT65114



Partition for auxiliary contacts
for closing the gaps between functional areas, cable connection and switchgear area, compulsory for Form 4, incl. screws

Article No.
per pack/unit
Pack = 1 Set

XTPWCUA2
173330

Partition for Control Terminals

VT64214



Partition for control terminals
If not all of the plug-in positions are used for plugging control terminals, the remaining positions of the support will be covered by this partition

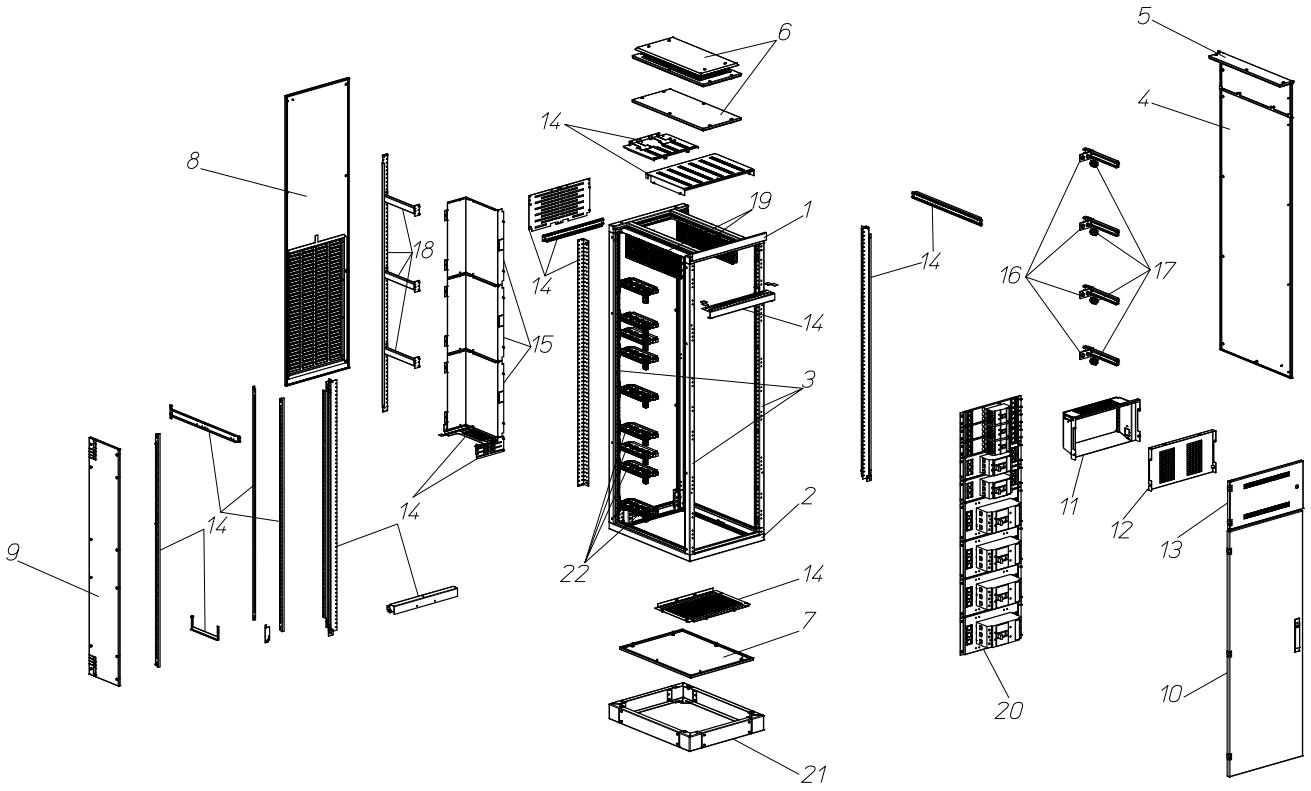
Article No.
per pack/unit
Pack = 1 Set

XTPWAEZD
173331

Notes

Description

XF_Explosion_2b



1 Frame - top
2 Frame - bottom
3 Vertical profiles
4 Side panel
5 Corner element for side panel
6 Top panel
7 Bottom panel
8 Rear panel
9 Separation panel
10 Door to switchgear area
11 Wiring/control module
12 Partition main busbar
13 Door to control module
14 Fitting kit
15 Partition dropper bar
16 Bracket PE dropper bar
17 Insulators N conductor
18 Cable strain relief rail
19 Main busbar support
20 Modules
21 Plinth
22 Dropper bar supports

Features

- Widths: 600, 800, 1000 mm
- Module width: 600 mm
- Form 2
- 3, 4, 3P+N
- IP31, IP42, IP55
- Circuit breaker can be used with plug-in base
- Switchgear can be realised with remote drive
- One door across the entire switchgear area
- For widths of 800 and 1000 mm one shared door across the switchgear and cable connection area
- Dropper bar 1600-2000 A
- Cable connection area at the rear
- All modules sit on the same level
- Max. height available for installation/switchgear area = 1600 mm

Notes

- Frame comes with a blue design strip (at the top)
- Doors include a locking system for a 3 mm two-way key-bit
- For cable guidance from the top you need to install an additional cable guidance section at the rear of the system
- With cover panels consisting of several parts it may be necessary to ensure the required degree of protection through additional measures
- The max. height available for mounting plates is 1600 mm
- The max. installation height available in the control module ist 280 mm
- For flanges, clip-down handles, eyebolts, 180° hinges, fixing brackets, Durostone posts, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter “General Accessories“.

wa_vt03614



vt68914



VT31014

VT37913



VT37813



VT39413



Section width mm	Cable connection area at the side	XF Fitting kit Form 2 Article No. per pack/unit	XF Extension sets in combination with XF Fitting kit XTMFS4-W600 additional cable connection area at the side Article No. per pack/unit	Set of dropper bar supports for N in XF section, 4 insulators, H = 40 mm incl. screws Article No. per pack/unit	Set of dropper bar supports for PE in XF section, 4 fixing brackets, incl. screws Article No. per pack/unit	Wiring and control module for installation of various electrical components, for holding a cable duct Article No. per pack/unit
600	no	**XTMFS2** 174001 186574*	**-**	**XTDWSVN1** 172663	**XTDWSVPE1** 172664	**XTPWBAVC-H325W600** 172677
800	yes	**XTMFS2** 174001 186574*	**XTMFC4-W800** 173999 186572*	**XTDWSVN1** 172663	**XTDWSVPE1** 172664	**XTPWBAVC-H325W800** 172678
1000	yes	**XTMFS2** 174001 186574*	**XTMFC4-W1000** 173998 186571*	**XTDWSVN1** 172663	**XTDWSVPE1** 172664	**XTPWBAVC-H325W1000** 172679

Note * Finish in special RAL colour

VT36613



Cover in front of main busbars instead of a control module, incl. screws	Article No. per pack/unit
XTPWBAVP-H325W600	172687
XTPWBAVP-H325W800	172688
XTPWBAVP-H325W1000	172689

VT72614



Dropper bar support	Article No. per pack/unit
see table below	
see table below	
see table below	

VT69614



Partition dropper bars	Article No. per pack/unit
XTPFDCZ1	174003
XTPFDCZ1	174003
XTPFDCZ1	174003

VT69014



Set of cable strain relief rails	Article No. per pack/unit
XTMFAR1	174002
XTMFAR1	174002
XTMFAR1	174002

VT36313



Door IP31 for control module, left and right, ventilated, H = 325 mm, incl. hinges, 3 mm two-way key-bit lock and two-way key	Article No. per pack/unit
XTSZDSQV3-H325W600	172707 186297*
XTSZDSQV3-H325W800	172708 186298*
XTSZDSQV3-H325W1000	172706 186296*

VT36113



Door IP55 for control module, left and right, closed, H = 325 mm, incl. hinges, 3 mm two-way key-bit lock and two-way key	Article No. per pack/unit
XTPWBAVP-H325W600	172687
XTPWBAVP-H325W800	172688
XTPWBAVP-H325W1000	172689

Dropper bar support

The number of dropper bar supports and the distance between them varies depending on the short-circuit strength of the dropper bars (see Technical Section).

VT72114



VT72614



Cu cross-section mm	Bar support at top and bottom level incl. fixing brackets and screws Article No. per pack/unit Pack = 1 Set	Bar support at medium level incl. fixing brackets and screws Article No. per pack/unit Pack = 1 Set
2x40/10	**XTDFSTB2X40X10/80** 174069	**XTDFBM2X40X10/80** 174073
2x60/10	**XTDFSTB2X60X10/80** 174071	**XTDFBM2X60X10/80** 174075

Note * Finish in special RAL colour

VT66414



Door to switchgear area IP31, left, ventilated, 3 mm two-way key-bit lock and two-way key, incl. screws

Article No.
per pack/unit

XTSZDSKV3L-H1625W592
174036
186596*

-

-

VT66514



Door to switchgear area IP31, right, ventilated, 3 mm two-way key-bit lock and two-way key, incl. screws

Article No.
per pack/unit

XTSZDSKV3R-H1625W592
174037
186597*

-

-

vt120014



Door to switchgear area IP42, left, ventilated, 3 mm two-way key-bit lock and two-way key, incl. screws

Article No.
per pack/unit

XTSZDSKV4L-H1625W592
174038
186598*

-

-

vt119914



Door to switchgear area IP42, right, ventilated, 3 mm two-way key-bit lock and two-way key, incl. screws

Article No.
per pack/unit

XTSZDSKV4R-H1625W592
174039
186599*

-

-

VT66614



Door to switchgear area IP55, right, closed, 3 mm two-way key-bit lock and two-way key, incl. screws

Article No.
per pack/unit

XTSZDSKC-H1625W592
174035
186595*

-

-

VT22413



Separation panel section/section, incl. screws

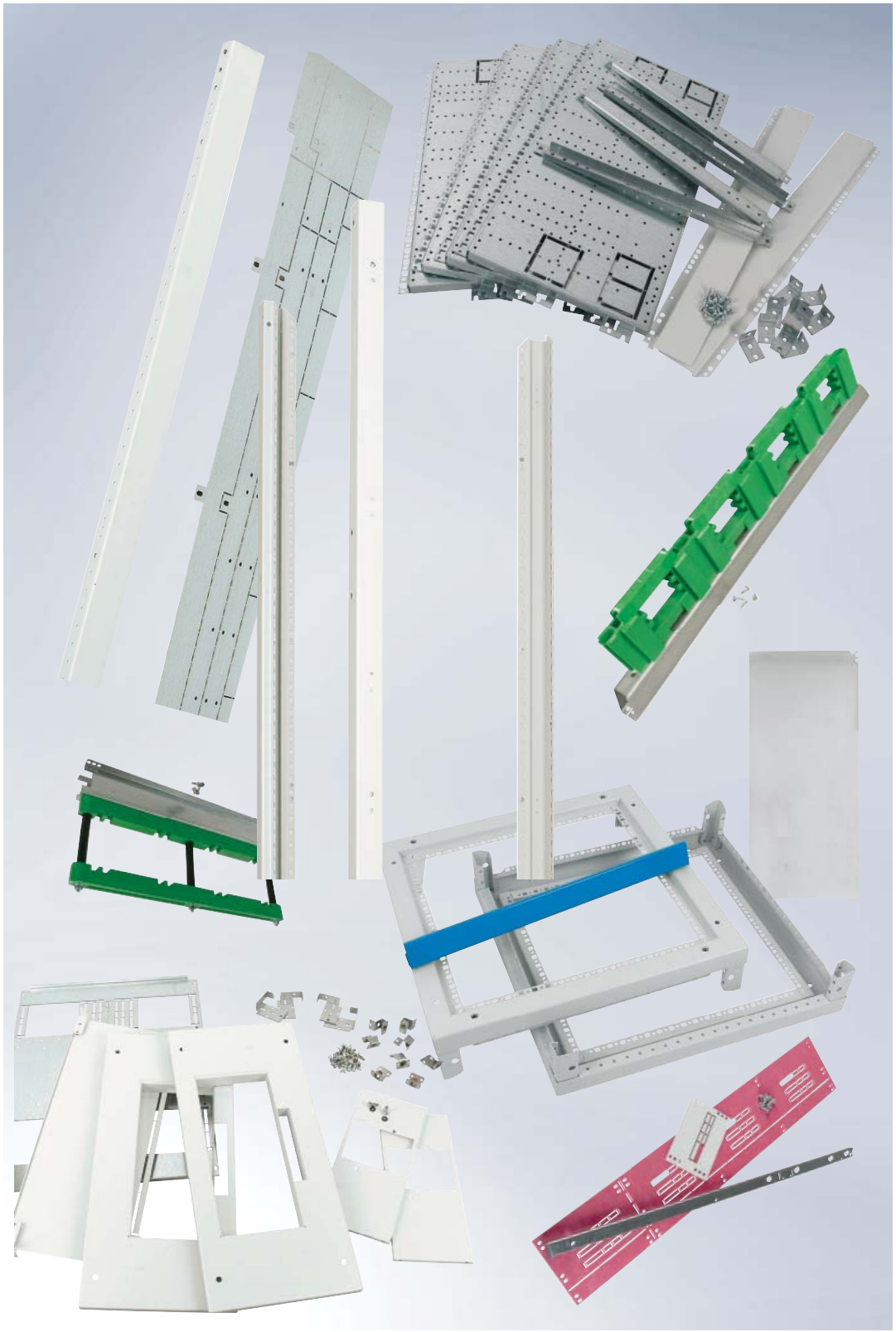
Article No.
per pack/unit

XTPZSSZ1
172698

XTPZSSZ1
172698

Note * Finish in special RAL colour

Components XF Form 2



Dropper bar support

The number of dropper bar supports and the distance between them varies depending on the short-circuit strength of the dropper bars (see Technical Section).

VT72114



VT72614



Cu cross-section mm	Bar support at top and bottom level incl. fixing brackets and screws Article No. per pack/unit Pack = 1 Set	Bar support at medium level incl. fixing brackets and screws Article No. per pack/unit Pack = 1 Set
2x40/10	**XTDFSTB2X40X10/80** 174069	**XTDFBM2X40X10/80** 174073
2x60/10	**XTDFSTB2X60X10/80** 174071	**XTDFBM2X60X10/80** 174075

General Accessories

Mounting Plates undrilled

Incl. fixing material.

wa_vt33513



Width mm	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 350 mm	H = 400 mm	H = 500 mm
	Article No. per pack/unit Pack = 1 Set	Article No. per pack/unit Pack = 1 Set	Article No. per pack/unit Pack = 1 Set	Article No. per pack/unit Pack = 1 Set	Article No. per pack/unit Pack = 1 Set	Article No. per pack/unit Pack = 1 Set	Article No. per pack/unit Pack = 1 Set	Article No. per pack/unit Pack = 1 Set	Article No. per pack/unit Pack = 1 Set
600	**XME0206M** 283925	**XME0406M** 283933	**XME0606M** 284728	**XME0806M** 283945	**XME1006M** 144586	**XME1206M** 285686	**XME1406M** 171724	**XME1606M** 283951	**XME2006M** 171725

Mounting Plates undrilled (continued)

Incl. fixing material.

wa_vt33513



Width mm	H = 600 mm	H = 800 mm	H = 950 mm	H = 1000 mm	H = 1200 mm
	Article No. per pack/unit Pack = 1 Set	Article No. per pack/unit Pack = 1 Set	Article No. per pack/unit Pack = 1 Set	Article No. per pack/unit Pack = 1 Set	Article No. per pack/unit Pack = 1 Set
600	**XME2406M** 285687	**XME3206M** 126010	**XME3806M** 171660	**XME4006M** 171726	**XME4806M** 171727

Accessories for Outgoing Section

Mounting Plates for PKZ

wa_vt68313



wa_vt68113



Width mm	Horizontal 3-pole H = 50 mm Article No. per pack/unit	Horizontal 3-pole H = 100 mm Article No. per pack/unit
600	**XMP030206M** 284090	**XMP430406M** 284098

Mounting Plates for NZM1

wa_vt68013



wa_vt68113



Width mm	UK 1x NZM1 horizontal 4-pole H = 150 mm fixed Article No. per pack/unit	1x NZM1 horizontal 3-pole H = 100 mm fixed Article No. per pack/unit	1x NZM1 horizontal 4-pole H = 150 mm fixed Article No. per pack/unit	1x NZM1 horizontal 3-pole H = 150 mm plug-in module technology Article No. per pack/unit	2x NZM1 vertical 3-pole H = 300 mm fixed Article No. per pack/unit	3x NZM1 vertical 3-pole H = 300 mm fixed Article No. per pack/unit	2x NZM1 vertical 4-pole H = 300 mm fixed Article No. per pack/unit	3xN ZM1 vertical 4-pole H = 300 mm fixed Article No. per pack/unit
600	**XMN140606M-UK** 110255	**XMN130406M** 283998	**XMN140606M** 284006	**XMN130606MP** 121796	**-**	**XMN131206MV** 284002	**-**	**XMN141206MV** 284010

Mounting Plates for NZM2

wa_vt54913



Width mm	UK 1x NZM2 horizontal 4-pole H = 200 mm fixed Article No. per pack/unit	1x NZM2 horizontal 3-pole H = 150 mm fixed Article No. per pack/unit	1x NZM2 horizontal 3-pole H = 150 mm plug-in module technology Article No. per pack/unit	1x NZM2 horizontal 3-pole H = 150 mm with motor lift (sticks 15 mm out of the front plate)) Article No. per pack/unit	1x NZM2 horizontal 4-pole H = 200 mm fixed Article No. per pack/unit	1x NZM2 horizontal 4-pole H = 200 mm plug-in technology Article No. per pack/unit	1x NZM2 horizontal 4-pole H = 200 mm cover for RCD module, fixed Article No. per pack/unit	2x NZM2 vertical 3-pole H = 400 mm fixed Article No. per pack/unit
600	**XMN240606M-UK** 110256	**XMN230606M** 284014	**XMN230606MP** 284724	**XMN230606M** 284014	**XMN240806M** 284027	**XMN240806MP** 284726	**XMN240806MF** 134485	**-**

Accessories for Outgoing Section

Mounting Plates for NZM3

wa_vt72913



Width mm	UK 1x NZM3 horizontal 4-pole H = 250 mm fixed Article No. per pack/unit	1x NZM3 horizontal 3-pole H = 200 mm fixed Article No. per pack/unit	1x NZM3 horizontal 3-pole H = 250 mm fixed Article No. per pack/unit	1x NZM3 horizontal 4-pole H = 250 mm fixed Article No. per pack/unit	1x NZM3 horizontal 4-pole H = 300 mm fixed Article No. per pack/unit
600	**XMN340606M-UK** 110257	**XMN330806M** 284038	**XMN331006M** 284041	**XMN341006M** 284054	**XMN341206M** 284057

Mounting Plates for NZM3 (continued)

wa_vt72913

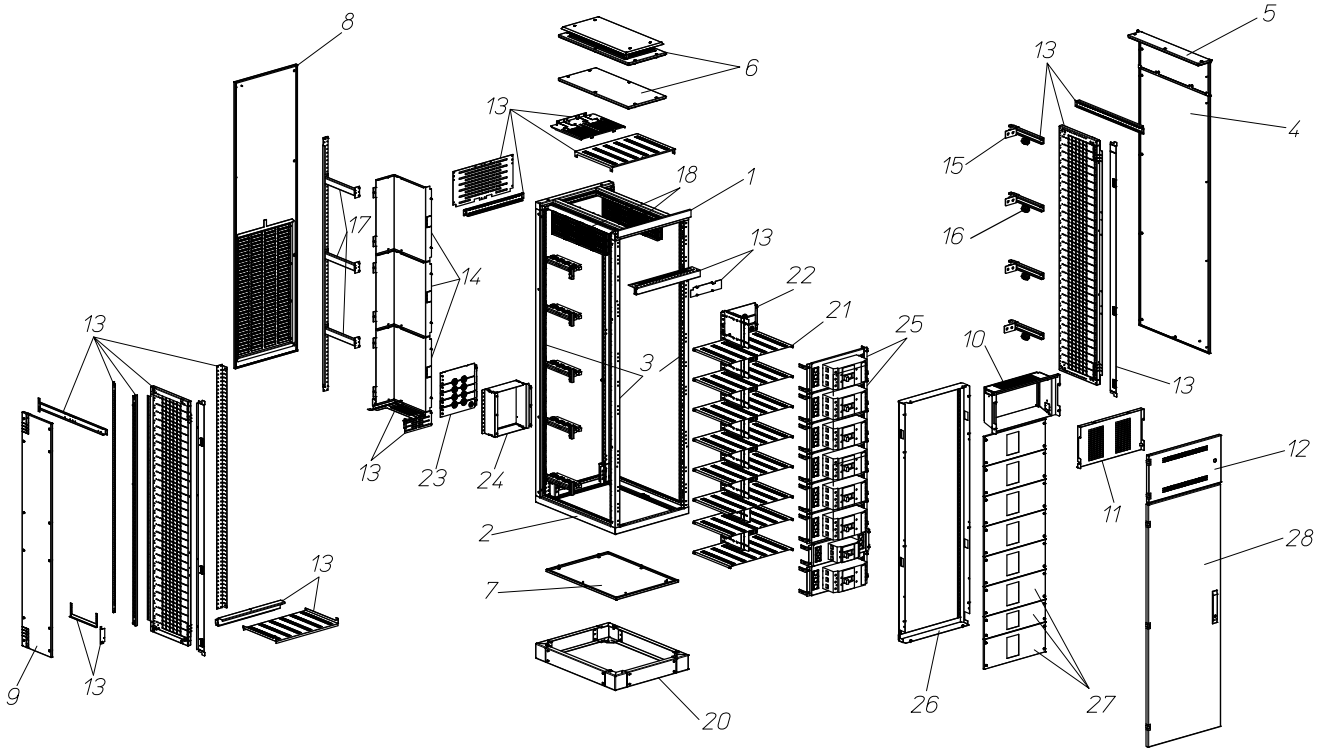


Width mm	1x NZM3, horizontal 3-pole, H = 200 mm with motor lift, motor lift sticks 55 mm out of the front panel, tilting is not possible, fixed Article No. per pack/unit	1x NZM3, horizontal 4-pole, H = 250 mm with motor lift, motor lift sticks 55 mm out of the front panel, tilting is not possible, fixed Article No. per pack/unit	1x NZM3 horizontal 3-pole H = 250 mm plug-in technology Article No. per pack/unit	1x NZM3 horizontal 4-pole H = 300 mm plug-in technology Article No. per pack/unit
600	**XMN330806M** 284038	**XMN341006M** 284054	**XMN331006MP** 172199	**XMN341206MP** 172201

Notes

Description

XF_Explosion_4b



1 Frame - top
2 Frame - bottom
3 Vertical profiles
4 Side panel
5 Corner element for side panel
6 Top panel
7 Bottom panel
8 Rear panel
9 Separation panel
10 Wiring/control module
11 Partition main busbar
12 Door to control module
13 Fitting kit
14 Partition dropper bar
15 Bracket PE dropper bar
16 Insulators N conductor
17 Cable strain relief rail
18 Main busbar support
19 Dropper bar supports
20 Plinth
21 Separation panel module/module
22 Separation panel busbar/cable box
23 Cable entry cable box
24 Extension/stacking frame cable box
25 Modules
26 Cover frame
27 Front panels
28 Door to switchgear area

Features

- Widths: 600, 800, 1000 mm
- Module width: 600 mm
- Form 4 up to type 7
- 3, 4, 3P+N
- IP31, IP42, IP55
- Circuit breaker can be used with plug-in base
- Switchgear can be realised with remote drive
- Each module has its own front panel
- Widths of 800 and 1000mm come with a door to the cable connection area
- Dropper bar 1600-2000 A
- Cable connection area at the rear
- Each module has a separate cable connection box
- Cable connection boxes can be extended with additional frames
- Max. height available for installation/switchgear area = 1550 mm

Notes

- Frame comes with a blue design strip (at the top)
- Doors include a locking system for a 3 mm two-way key-bit
- For cable guidance from the top you need to install an additional cable guidance section at the rear of the system
- With cover panels consisting of several parts it may be necessary to ensure the required degree of protection through additional measures
- The max. height available for mounting plates is 1600 mm
- The max. installation height available in the control module ist 280 mm
- For flanges, clip-down handles, eyebolts, 180° hinges, fixing brackets, Durostone posts, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter “General Accessories“.

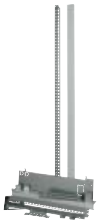
wa_vt03714



vt68914



VT66814



VT69114



VT37913



VT37813



VT39413



Section width mm	Cable connection area at the side	XF Fitting kit Form 4 for width 600 mm Article No. per pack/unit	XF Extension sets in combination with XF Fitting kit XTMFS4-W600 additional cable connection area at the side Article No. per pack/unit	Cover frame Article No. per pack/unit	Set of dropper bar supports for N in XF section, 4 insulators, H = 40 mm incl. screws Article No. per pack/unit	Set of dropper bar supports for PE in XF section, 4 fixing brackets, incl. screws Article No. per pack/unit	Wiring and control module for installation of various electrical components, for holding a cable duct Article No. per pack/unit
600	no	**XTMFS4-W600** 174000 186573*	**-**	**XTMFF-MW600** 173997 186570*	**XTDWSVN1** 172663	**XTDWSVPE1** 174076	**XTPWBAVC-H325W600** 172677
800	yes	**XTMFS4-W600** 174000 186573*	**XTMFC4-800** 173999 186572*	**XTMFF-MW600** 173997 186570*	**XTDWSVN1** 172663	**XTDWSVPE1** 174076	**XTPWBAVC-H325W800** 172678
1000	yes	**XTMFS4-W600** 174000 186573*	**XTMFC4-W1000** 173998 186571*	**XTMFF-MW600** 173997 186570*	**XTDWSVN1** 172663	**XTDWSVPE1** 174076	**XTPWBAVC-H325W1000** 172679

Note * Finish in special RAL colour

VT36613



Cover
in front of main busbars
instead of a control module,
incl. screws

Article No.
per pack/unit

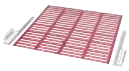
VT72614



Dropper bar support

Article No.
per pack/unit

VT69914



Partition
dropper bars

Article No.
per pack/unit

VT69014



Set of cable
strain relief rails

Article No.
per pack/unit

VT70914



Partition
switchgear area/switch-
gear area

Article No.
per pack/unit

VT36313



Door IP31 for control modu-
le, left and right, ventilated,
H = 325 mm, incl. hinges,
3 mm two-way key-bit lock
and two-way key

Article No.
per pack/unit

VT36113



Door IP55 for control modu-
le, left and right, closed,
H = 325 mm, incl. hinges,
3 mm two-way key-bit lock
and two-way key

Article No.
per pack/unit

XTPWBAVP-H325W600 172687	see table below	**XTPFDCZ1** 174003	**XTMFAR1** 174002	**XTPFUUH1-MW600** 174016	**XTSZDSQV3-H325W600** 172707 186297*	**XTPWBAVP-H325W600** 172687
XTPWBAVP-H325W600 172688	see table below	**XTPFDCZ1** 174003	**XTMFAR1** 174002	**XTPFUUH1-MW600** 174016	**XTSZDSQV3-H325W800** 172708 186298*	**XTPWBAVP-H325W800** 172688
XTPWBAVP-H325W600 172689	see table below	**XTPFDCZ1** 174003	**XTMFAR1** 174002	**XTPFUUH1-MW600** 174016	**XTSZDSQV3-H325W1000** 172706 186296*	**XTPWBAVP-H325W1000** 172689

Dropper bar support

The number of dropper bar supports and the distance between them varies depending on the short-circuit strength of the dropper bars (see Technical Section).

VT72114



VT72614



Cu cross-section mm	Bar support at top and bottom level incl. fixing brackets and screws Article No. per pack/unit Pack = 1 Set	Bar support at medium level incl. fixing brackets and screws Article No. per pack/unit Pack = 1 Set
2x40/10	**XTDFSTB2X40X10/80** 174069	**XTDFBM2X40X10/80** 174073
2x60/10	**XTDFSTB2X60X10/80** 174071	**XTDFBM2X60X10/80** 174075

Note * Finish in special RAL colour

VT66414



Door to switchgear area IP31, left, ventilated, 3 mm two-way key-bit lock and two-way key, incl. screws	Door to switchgear area IP31, right, ventilated, 3 mm two-way key-bit lock and two-way key, incl. screws	Door to switchgear area IP42, left, ventilated, 3 mm two-way key-bit lock and two-way key, incl. screws	Door to switchgear area IP42, right, ventilated, 3 mm two-way key-bit lock and two-way key, incl. screws	Door to switchgear area IP55, right, closed, 3 mm two-way key-bit lock and two-way key, incl. screws	Separation panel section/section, incl. screws
Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
XTSZDSKV3L-H1625W592 174036 186596*	**XTSZDSKV3R-H1625W592** 174037 186597*	**XTSZDSKV4L-H1625W592** 174038 186598*	**XTSZDSKV4R-H1625W592** 174039 186599*	**XTSZDSKC-H1625W592** 174035 186595	**XTPZSSZ1** 172698
XTSZDCKV3L-H1625W195 174062 186590*	**XTSZDCKV3R-H1625W195** 174063 186591*	**XTSZDCKV4L-H1625W195** 174064	**XTSZDCKV4L-H1625W195** 174033	**XTSZDCKC-H1625W195** 174061 186589*	**XTPZSSZ1** 172698
XTSZDCKV3L-H1625W395 174031 186593*	**XTSZDCKV3R-H1625W395** 174032 186594*	**XTSZDCKV4R-H1625W395** 174029	**XTSZDCKV4R-H1625W395** 174034	**XTSZDCKC-H1625W395** 174030 186592*	**XTPZSSZ1** 172698

VT66514



vt120014



vt119914



VT66614



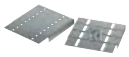
VT22413



Note * Finish in special RAL colour

Cable Connection Boxes

VT70814



VT64914

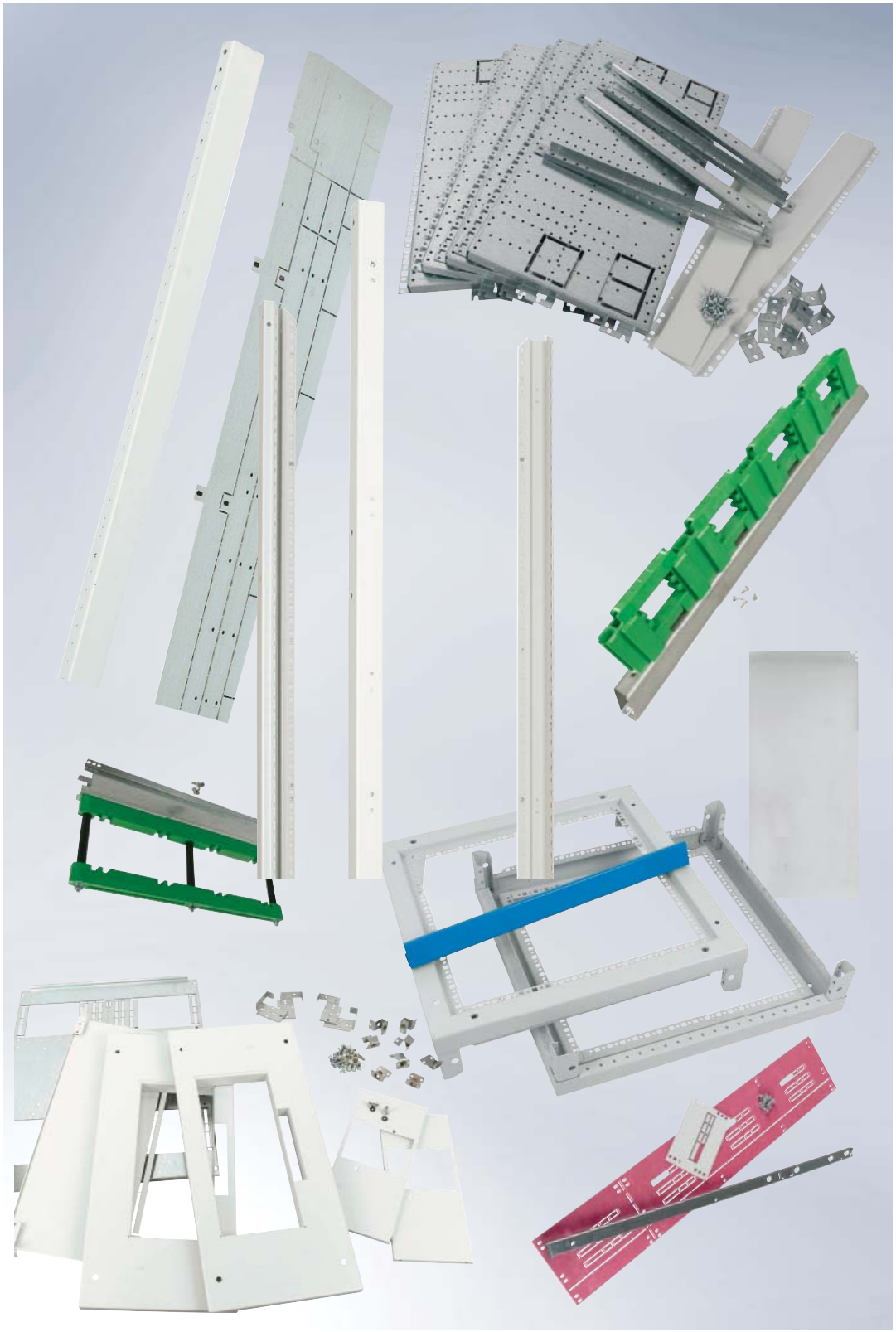


VT71514



Module height	Partition dropper bar/cable connection area, incl. screws Article No. per pack/unit Pack = 1 Set	Stack/expansion frame for cable connection box, incl. screws Article No. per pack/unit Pack = 1 Set	Closing plates cable connection box Article No. per pack/unit Pack = 1 Set	Contents
50	**XTPFUUZ-H50** 174017	-	**XTPFCUV1-H50MW600** 174049	
100	**XTPFUUZ-H100** 174018	-	**XTPFCUV1-H100MW600** 174050	KT21 = 1 pc. KT29 = 2 pcs.
150	**XTPFUUZ-H150** 174019	**XTPFCUB-H150MW600** 174042	**XTPFCUV1-H150MW600** 174052	KT21 = 1 pc. KT29 = 2 pcs.
200	**XTPFUUZ-H200** 174020	**XTPFCUB-H200MW600** 174043	**XTPFCUV1-H200MW600** 174053	KT21 = 1 pc. KT29 = 4 pcs.
250	**XTPFUUZ-H250** 174021	**XTPFCUB-H250MW600** 174044	**XTPFCUV1-H250MW600** 174054	KT21 = 1 pc. KT29 = 6 pcs.
300	**XTPFUUZ-H300** 174022	**XTPFCUB-H300MW600** 174045	**XTPFCUV1-H300MW600** 174055	KT21 = 1 pc. KT29 = 8 pcs.
350	**XTPFUUZ-H350** 174023	-	-	
400	**XTPFUUZ-H400** 174024	**XTPFCUB-H400MW600** 174046	**XTPFCUV1-H400MW600** 174056	KT21 = 1 pc. KT29 = 12 pcs.
500	**XTPFUUZ-H500** 174025	**XTPFCUB-H500MW600** 174047	**XTPFCUV1-H500MW600** 174057	KT21 = 1 pc. KT42 = 8 pcs.
600	**XTPFUUZ-H600** 174026	**XTPFCUB-H600MW600** 174048	**XTPFCUV1-H600MW600** 174058	KT21 = 1 pc. KT42 = 10 pcs.
800	**XTPFUUZ-H800** 174027	-	-	
1000	**XTPFUUZ-H1000** 174028	-	-	
1200	**XTPFUUZ-H1200** 174041	-	-	

Components XF Form 4



Doors to Cable Connection Area

VT66014



VT65914



VT35513



Section width mm	Cable connection area width mm	Degree of protection	Door height 1625 mm right Article No. per pack/unit	Door height 2000 mm left Article No. per pack/unit	Door height 2000 mm right Article No. per pack/unit
800	200	IP31	**XTSZDCKV3L-H1625W195** 174062 186590*	**XTSZDCKV3R-H1625W195** 174063 186591*	**XTSZDCKV3R-H1625W220** 172733 186680*
		IP42	**XTSZDCKV4L-H1625W195** 174064	**XTSZDCKV4R-H1625W195** 174029	**-**
		IP55	**XTSZDCKC-H1625W195** 174061 186589*	**-**	**XTSZDCKC-H1625W220** 172731 186654*
1000	400	IP31	**XTSZDCKV3L-H1625W395** 174031 186593*	**XTSZDCKV3R-H1625W395** 174032 186594*	**XTSZDCKV3R-H1625W420** 172734 186681*
		IP42	**XTSZDCKV4L-H1625W395** 174033	**XTSZDCKV4R-H1625W395** 174034	**-**
		IP55	**XTSZDCKC-H1625W395** 174030 186592*	**-**	**XTSZDCKC-H1625W420** 172732 186655*

Dropper bar support

The number of dropper bar supports and the distance between them varies depending on the short-circuit strength of the dropper bars (see Technical Section).

VT72114



VT72614

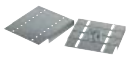


Cu cross-section mm	Bar support at top and bottom level incl. fixing brackets and screws Article No. per pack/unit Pack = 1 Set	Bar support at medium level incl. fixing brackets and screws Article No. per pack/unit Pack = 1 Set
2x40/10	**XTDFSTB2X40X10/80** 174069	**XTDFBM2X40X10/80** 174073
2x60/10	**XTDFSTB2X60X10/80** 174071	**XTDFBM2X60X10/80** 174075

Note * Finish in special RAL colour

Cable Connection Boxes

VT70814



VT64914



VT71514



Module height	Partition dropper bar/cable connection area, incl. screws Article No. per pack/unit Pack = 1 Set	Stack/expansion frame for cable connection box, incl. screws Article No. per pack/unit Pack = 1 Set	Closing plates cable connection box Article No. per pack/unit Pack = 1 Set	Contents
50	**XTPFUUZ-H50** 174017	-	**XTPFCUV1-H50MW600** 174049	
100	**XTPFUUZ-H100** 174018	-	**XTPFCUV1-H100MW600** 174050	KT21 = 1 pc. KT29 = 2 pcs.
150	**XTPFUUZ-H150** 174019	**XTPFCUB-H150MW600** 174042	**XTPFCUV1-H150MW600** 174052	KT21 = 1 pc. KT29 = 2 pcs.
200	**XTPFUUZ-H200** 174020	**XTPFCUB-H200MW600** 174043	**XTPFCUV1-H200MW600** 174053	KT21 = 1 pc. KT29 = 4 pcs.
250	**XTPFUUZ-H250** 174021	**XTPFCUB-H250MW600** 174044	**XTPFCUV1-H250MW600** 174054	KT21 = 1 pc. KT29 = 6 pcs.
300	**XTPFUUZ-H300** 174022	**XTPFCUB-H300MW600** 174045	**XTPFCUV1-H300MW600** 174055	KT21 = 1 pc. KT29 = 8 pcs.
350	**XTPFUUZ-H350** 174023	-	-	
400	**XTPFUUZ-H400** 174024	**XTPFCUB-H400MW600** 174046	**XTPFCUV1-H400MW600** 174056	KT21 = 1 pc. KT29 = 12 pcs.
500	**XTPFUUZ-H500** 174025	**XTPFCUB-H500MW600** 174047	**XTPFCUV1-H500MW600** 174057	KT21 = 1 pc. KT42 = 8 pcs.
600	**XTPFUUZ-H600** 174026	**XTPFCUB-H600MW600** 174048	**XTPFCUV1-H600MW600** 174058	KT21 = 1 pc. KT42 = 10 pcs.
800	**XTPFUUZ-H800** 174027	-	-	
1000	**XTPFUUZ-H1000** 174028	-	-	
1200	**XTPFUUZ-H1200** 174041	-	-	

Accessories for Outgoing Section

xEnergy Main EBS Front Panels for FAZ

wa_vt54813



wa_vt70813



Width mm	H = 150 mm Article No. per pack/unit	H = 200 mm Article No. per pack/unit	H = 300 mm Article No. per pack/unit	H = 400 mm Article No. per pack/unit
425	**XMMC0604C** 283979 122152*	**XMMC0804C** 283983 122154*	**XMMC1204C** 283987 122156*	**XMMC1604C** 283991 122158*
600	**XMMC0606C** 283981 122153*	**XMMC0806C** 283985 122155*	**XMMC1206C** 283989 122157*	**XMMC1606C** 283993 122159*
800	**XMMC0608C** 106718 122507*	**XMMC0808C** 106730 122509*	-	-
1000	**XMMC0610C** 106719 122508*	**XMMC0810C** 106731 122510*	-	-

xEnergy Main EBS Front Panels empty

wa_vt67613



wa_vt33613



wa_vt67313



Width mm	H = 25 mm Article No. per pack/unit	H = 50 mm Article No. per pack/unit	H = 100 mm Article No. per pack/unit	H = 150 mm Article No. per pack/unit	H = 200 mm Article No. per pack/unit	H = 250 mm Article No. per pack/unit	H = 300 mm Article No. per pack/unit	H = 400 mm Article No. per pack/unit	H = 600 mm Article No. per pack/unit	H = 800 mm Article No. per pack/unit	H = 100 mm ventilated Article No. per pack/unit
600	**XME0106C** 158619 158620*	**XME0206C** 283924 122122*	**XME0406C** 283930 122126*	**XME0606C** 283936 122131*	**XME0806C** 283942 122136*	**XME1006C** 144588 144590*	**XME1206C** 283947 122140*	**XME1606C** 283950 122142*	**XME2406C** 294924 122413*	**XME3206C** 294926 122415*	**XME0406CV** 283932 122128*

Note * Finish in special RAL colour

Accessories for Outgoing Section

xEnergy Main EBS Front Panels for PKZ 0/4

wa_vt67813



wa_vt67913



Width mm	horizontal 3-pole H = 50 mm PKZ0 Article No. per pack/unit	horizontal 3-pole H = 100 mm PKZ4 Article No. per pack/unit
600	**XMP030206C** 284089 122213*	**XMP430406C** 284097 122215*

xEnergy Main EBS Front Panels for NZM1

wa_vt66913



wa_vt67413



wa_vt67513



wa_vt67413



Width mm	UK 1x NZM1 horizontal 4-pole H = 150 mm fixed with 90/90 cut-out for measuring device Article No. per pack/unit	UK 1x NZM1 horizontal 4-pole H = 150 mm fixed Article No. per pack/unit	1x NZM1 horizontal 3-pole H = 100 mm fixed Article No. per pack/unit	1x NZM1 horizontal 4-pole H = 150 mm fixed Article No. per pack/unit	1x NZM1 horizontal 4-pole H = 150 mm plug-in module technology Article No. per pack/unit
600	**XMN140606C-1-UK** 110262 122599*	**XMN140606C-UK** 110259 122596*	**XMN130406C** 283997 122161*	**XMN140606C** 284005 122165*	**XMN130606C** 121797 122636*

Note * Finish in special RAL colour

Accessories for Outgoing Section

xEnergy Main EBS Front Panels for NZM2

wa_vt54613



wa_vt70713



Width mm	UK 1x NZM2 horizontal 4-pole H = 200 mm with cut-out for measuring devices, fixed	UK 1x NZM2 horizontal 4-pole H = 200 mm fixed	1x NZM2 horizontal 3-pole H = 150 mm fixed	1x NZM2 horizontal 3-pole H = 150 mm plug-in module technology	1x NZM2 horizontal 3-pole H = 150 mm with motor lift (sticks 15 mm out of front panel)	1x NZM2 horizontal 4-pole H = 200 mm fixed	1x NZM2 horizontal 4-pole H = 200 mm with motor lift (sticks 15 mm out of front panel)	1x NZM2 horizontal 4-pole H = 200 mm plug-in techno-logy	1x NZM2 horizontal 4-pole H = 200 mm cover for RCD module, fixed
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
600	**XMN240606C-1-UK** 110263 122600*	**XMN240606C-UK** 110260 122597*	**XMN230606C** 284013 122169*	**XMN230606C** 284013 122169*	**XMN230606CR** 292907 122406*	**XMN240806C** 284026 122176*	**XMN240806CR** 125993 125994*	**XMN240806C** 284026 122176*	**XMN240806CF** 284659 122356*

xEnergy Main EBS Front Panels for NZM3

wa_vt67113



wa_vt73013



Width mm	1x NZM3 horizontal 3-pole 4H = 200 mm fixed	1x NZM3 horizontal 3-pole H = 250 mm fixed	1x NZM3 horizontal 4-pole H = 250 mm fixed	1x NZM3 horizontal 4-pole H = 300 mm fixed	1x NZM3 horizontal 3-pole H = 200 mm with motor lift, sticking 55 mm out of front panel, tilting the front panel is not pos-sible, fixed	1x NZM3 horizontal 4-pole H = 250 mm with motor lift, sticking 55 mm out of front panel, tilting the front panel is not pos-sible, fixed	1x NZM3 horizontal H = 250 mm plug-in technology	1x NZM3 horizontal H = 300 mm plug-in technology
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
600	**XMN330806C** 284036 122181*	**XMN331006C** 284039 122183*	**XMN341006C** 284052 122191*	**XMN341206C** 284055 122193*	**XMN330806CR** 284037 122182*	**XMN341006CR** 284053 122192*	**XMN331006CP** 172200 172324*	**XMN341206CP** 172202 172325*

Note * Finish in special RAL colour

Accessories for Outgoing Section

Mounting Plates for PKZ

wa_vt68313



wa_vt68113



Width mm	horizontal 3-pole H = 50 mm	horizontal 3-pole H = 100 mm
	Article No. per pack/unit	Article No. per pack/unit
600	**XMP030206M** 284090	**XMP430406M** 284098

Mounting Plates for NZM1

wa_vt68113



Width mm	1x NZM1 horizontal 3-pole H = 100 mm fixed	1x NZM1 horizontal 4-pole H = 150 mm fixed	1x NZM1 horizontal 3-pole H = 150 mm plug-in module technology
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
425	**XMN130404M** 283996	**XMN140604M** 284004	**XMN130604MP** 121798
600	**XMN130406M** 283998	**XMN140606M** 284006	**XMN130606MP** 121796

Accessories for Outgoing Section

Mounting Plates for NZM2

wa_vt54913



Width mm	1x NZM2 horizontal 3-pole H = 150 mm fixed	1x NZM2 horizontal 3-pole H = 150 mm plug-in module technology	1x NZM2 horizontal 3-pole H = 150 mm with motor lift (sticks 15 mm out of front panel)	1x NZM2 horizontal 4-pole H = 200 mm fixed	1x NZM2 horizontal 4-pole H = 200 mm plug-in technology	1x NZM2 horizontal 4-pole H = 200 mm cover for RCD module, fixed
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
425	**XMN230604M** 284012	-	-	**XMN240804M** 284025	-	-
600	**XMN230606M** 284014	**XMN230606MP** 284724	**XMN230606M** 284014	**XMN240806M** 284027	**XMN240806MP** 284726	**XMN240806MF** 134485

Mounting Plates for NZM3

wa_vt72913

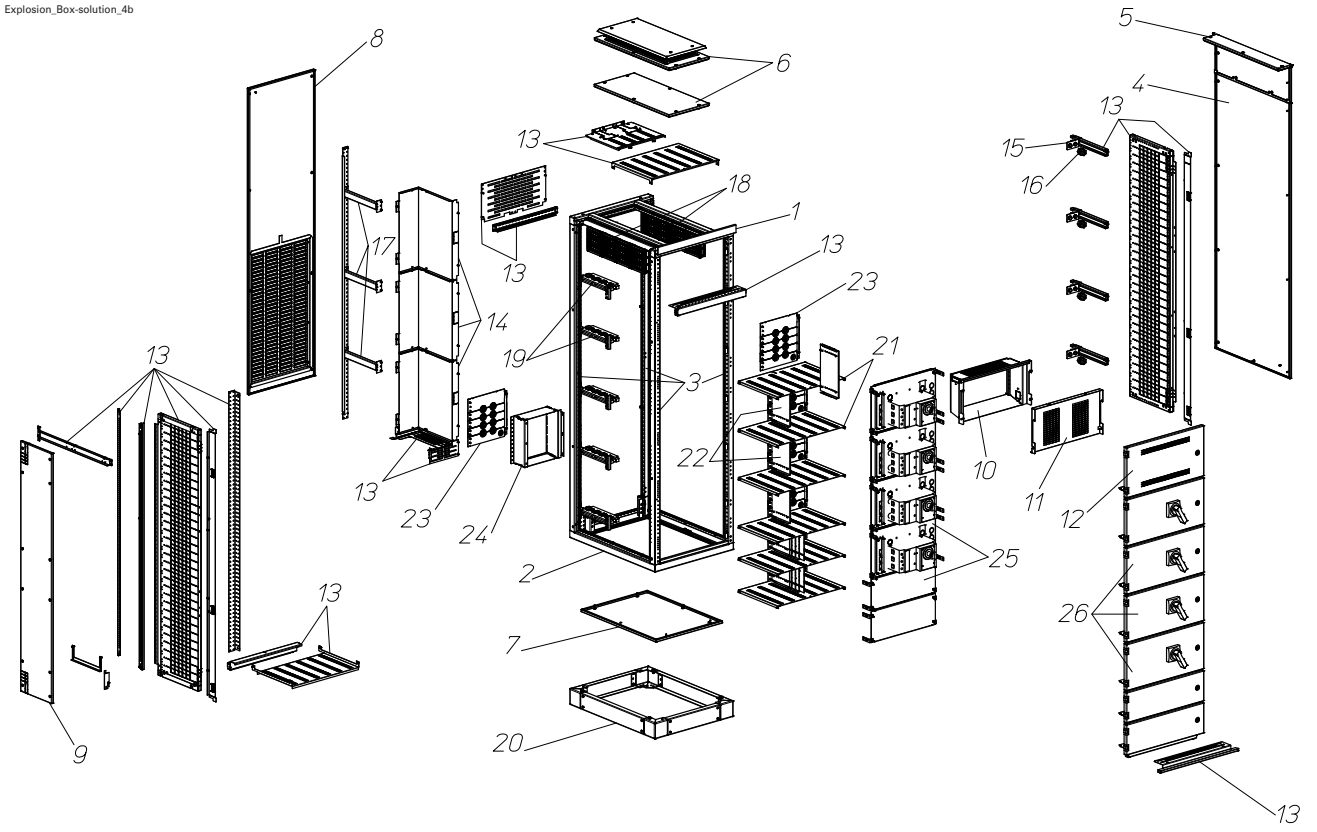


Width mm	1x NZM3 horizontal 3-pole H = 200 mm fixed	1x NZM3 horizontal 3-pole H = 250 mm fixed	1x NZM3 horizontal 4-pole H = 250 mm fixed	1x NZM3 horizontal 4-pole H = 300 mm fixed	1x NZM3 horizontal 3-pole H = 200 mm with motor lift, motor lift sticks 55 mm out of the front panel, tilting is not possible, fixed	1x NZM3 horizontal 4-pole H = 250 mm with motor lift, motor lift sticks 55 mm out of the front panel, tilting is not possible, fixed	1x NZM3 horizontal 3-pole H = 250 mm plug-in technology	1x NZM3 horizontal 4-pole H = 300 mm plug-in technology
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
600	**XMN330806M** 284038	**XMN331006M** 284041	**XMN341006M** 284054	**XMN341206M** 284057	**XMN330806M** 284038	**XMN341006M** 284054	**XMN331006MP** 172199	**XMN341206MP** 172201

Notes

Description

Explosion_Box-solution_4b



1 Frame - top
2 Frame - bottom
3 Vertical profiles
4 Side panel
5 Corner element for side panel
6 Top panel
7 Bottom panel
8 Rear panel
9 Separation panel
10 Wiring/control module
11 Partition main busbar
12 Door to control module
13 Fitting kit
14 Partition dropper bar
15 Bracket PE dropper bar
16 Insulators N conductor
17 Cable strain relief rail
18 Main busbar support
19 Dropper bar supports
20 Plinth
21 Separation panel module/module
22 Separation panel busbar/cable box
23 Cable entry cable box
24 Extension/stacking frame cable box
25 Module
26 Module Doors

Features

- Widths: 600, 800, 1000 mm
- Module width: 600 mm
- Form 4 up to type 7
- 3, 4, 3P+N
- IP31, IP42, IP55
- Circuit breaker can be used with plug-in base
- Switchgear can be realised with remote drive
- Operation behind the door or with rotary door coupling handle
- Each module has its own module door
- Widths of 800 and 1000mm come with a door to the cable connection area
- Dropper bar 1600-2000 A
- Cable connection area at the rear
- Each module has a separate cable connection box
- Cable connection boxes can be extended with additional frames
- Modules are available in heights from 200 to 1250 mm
- Max. height available for installation/switchgear area = 1600 mm

Notes

- Doors include a locking system for a 3 mm two-way key-bit
- For cable guidance from the top you need to install an additional cable guidance section at the rear of the system
- With cover panels consisting of several parts it may be necessary to ensure the required degree of protection through additional measures
- The max. height available for mounting plates is 1600 mm
- The max. installation height available in the control module ist 280 mm
- For flanges, clip-down handles, eyebolts, 180° hinges, fixing brackets, Durostone posts, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter “General Accessories“.

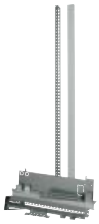
wa_vt03814



vt68914



VT66814



VT37913



VT37813



VT39413



Section width mm	Cable connection area at the side	XF Fitting kit Form 4 for width 600 mm Article No. per pack/unit	XF Extension sets in combination with XF Fitting kit XTMFS4-W600 additional cable connection area at the side Article No. per pack/unit	Set of dropper bar supports for N in XF section, 4 insulators, H = 40 mm incl. screws Article No. per pack/unit	Set of dropper bar supports for PE in XF section, 4 fixing brackets, incl. screws Article No. per pack/unit	Wiring and control module for installation of various electrical components, for holding a cable duct Article No. per pack/unit
600	no	**XTMFS4-W600** 174000 186573*	**-**	**XTDWSVN1** 172663	**XTDWSVPE1** 174076	**XTPWBAVC-H325W600** 172677
800	yes	**XTMFS4-W600** 174000 186573*	**XTMFC4-800** 173999 186572*	**XTDWSVN1** 172663	**XTDWSVPE1** 174076	**XTPWBAVC-H325W800** 172678
1000	yes	**XTMFS4-W600** 174000 186573*	**XTMFC4-W1000** 173998 186571*	**XTDWSVN1** 172663	**XTDWSVPE1** 174076	**XTPWBAVC-H325W1000** 172679

Note * Finish in special RAL colour

VT36613



Cover
in front of main busbars
instead of a control module,
incl. screws

Article No.
per pack/unit

XTPWBAVP-H325W600
172687

XTPWBAVP-H325W600
172688

XTPWBAVP-H325W600
172689

VT72614



Dropper bar support

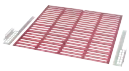
Article No.
per pack/unit

see table below

see table below

see table below

VT69914



Partition
dropper bars

Article No.
per pack/unit

XTPFDCZ1
174003

XTPFDCZ1
174003

XTPFDCZ1
174003

VT69014



Set of cable
strain relief rails

Article No.
per pack/unit

XTMFAR1
174002

XTMFAR1
174002

XTMFAR1
174002

VT70914



Partition
switchgear area/switch-
gear area

Article No.
per pack/unit

XTPFUUH1-MW600
174016

XTPFUUH1-MW600
174016

XTPFUUH1-MW600
174016

VT36313



Door IP31 for control modu-
le, left and right, ventilated,
H = 325 mm, incl. hinges,
3 mm two-way key-bit lock
and two-way key

Article No.
per pack/unit

XTSZDSQV3-H325W600
172707
186297*

XTSZDSQV3-H325W800
172708
186298*

XTSZDSQV3-H325W1000
172706
186296*

VT36113



Door IP55 for control modu-
le, left and right, closed,
H = 325 mm, incl. hinges,
3 mm two-way key-bit lock
and two-way key

Article No.
per pack/unit

XTPWBAVP-H325W600
172687

XTPWBAVP-H325W800
172688

XTPWBAVP-H325W1000
172689

Dropper bar support

The number of dropper bar supports and the distance between them varies depending on the short-circuit strength of the dropper bars (see Technical Section).

VT72114



VT72614



Cu cross-section mm	Bar support at top and bottom level incl. fixing brackets and screws Article No. per pack/unit Pack = 1 Set	Bar support at medium level incl. fixing brackets and screws Article No. per pack/unit Pack = 1 Set
2x40/10	**XTDFSTB2X40X10/80** 174069	**XTDFBM2X40X10/80** 174073
2x60/10	**XTDFSTB2X60X10/80** 174071	**XTDFBM2X60X10/80** 174075

Note * Finish in special RAL colour

VT66414



Door to switchgear area
IP31, left, ventilated,
3 mm two-way key-bit lock and two-way key,
incl. screws

Article No.
per pack/unit

VT66514



Door to switchgear area
IP31, right, ventilated,
3 mm two-way key-bit lock and two-way key,
incl. screws

Article No.
per pack/unit

vt120014



Door to switchgear area
IP42, left, ventilated,
3 mm two-way key-bit lock and two-way key,
incl. screws

Article No.
per pack/unit

vt119914



Door to switchgear area
IP42, right, ventilated,
3 mm two-way key-bit lock and two-way key,
incl. screws

Article No.
per pack/unit

VT66614



Door to switchgear area
IP55, right, closed,
3 mm two-way key-bit lock and two-way key,
incl. screws

Article No.
per pack/unit

VT22413



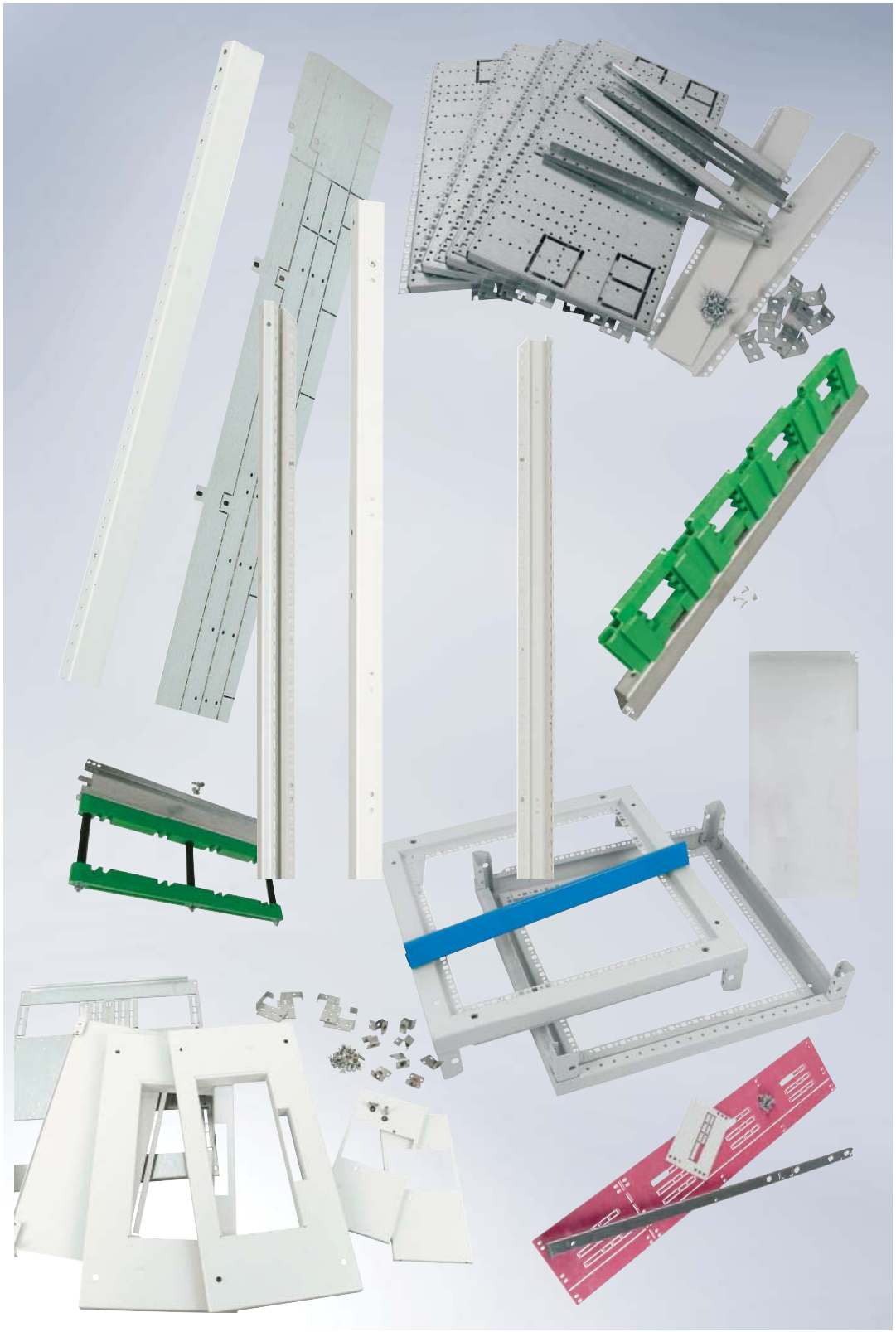
Separation panel
section/section,
incl. screws

Article No.
per pack/unit

XTSZDSKV3L-H1625W592	**XTSZDSKV3R-H1625W592**	**XTSZDSKV4L-H1625W592**	**XTSZDSKV4R-H1625W592**	**XTSZDSKC-H1625W592**	**XTPZSSZ1**
174036	174037	174038	174039	174035	172698
186596*	186597*	186598*	186599*	186595	
XTSZDCKV3L-H1625W195	**XTSZDCKV3R-H1625W195**	**XTSZDCKV4L-H1625W195**	**XTSZDCKV4L-H1625W195**	**XTSZDCKC-H1625W195**	**XTPZSSZ1**
174062	174063	174064	174033	174061	172698
186590*	186591*			186589*	
XTSZDCKV3L-H1625W395	**XTSZDCKV3R-H1625W395**	**XTSZDCKV4R-H1625W395**	**XTSZDCKV4R-H1625W395**	**XTSZDCKC-H1625W395**	**XTPZSSZ1**
174031	174032	174029	174034	174030	172698
186593*	186594*			186592*	

Note * Finish in special RAL colour

Components XF Box Solution



Doors to Cable Connection Area

VT66014



VT65914



Section width mm	Cable connection area width mm	Degree of protection	XF Section Box Solution/4b left or right, for doors without lighting it can be used on both sides Article No. per pack/unit		XF Section Box Solution/4b right Article No. per pack/unit	
800	200	IP31	**XTSZDCKV3L-H1625W195** 174062	186590*	**XTSZDCKV3R-H1625W195** 174063	186591*
		IP42	**XTSZDCKV4L-H1625W195** 174064		**XTSZDCKV4R-H1625W195** 174029	
		IP55	**XTSZDCKC-H1625W195** 174061	186589*	**-**	
1000	400	IP31	**XTSZDCKV3L-H1625W395** 174031	186593*	**XTSZDCKV3R-H1625W395** 174032	186594*
		IP42	**XTSZDCKV4L-H1625W395** 174033		**XTSZDCKV4R-H1625W395** 174034	
		IP55	**XTSZDCKC-H1625W395** 174030	186592*	**-**	

Dropper bar support

The number of dropper bar supports and the distance between them varies depending on the short-circuit strength of the dropper bars (see Technical Section).

VT72114



VT72614

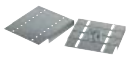


Cu cross-section mm	Bar support at top and bottom level incl. fixing brackets and screws Article No. per pack/unit Pack = 1 Set	Bar support at medium level incl. fixing brackets and screws Article No. per pack/unit Pack = 1 Set
2x40/10	**XTDFSTB2X40X10/80** 174069	**XTDFBM2X40X10/80** 174073
2x60/10	**XTDFSTB2X60X10/80** 174071	**XTDFBM2X60X10/80** 174075

Note * Finish in special RAL colour

Cable Connection Boxes

VT70814



VT64914



VT71514



Module height	Partition dropper bar/cable connection area, incl. screws Article No. per pack/unit Pack = 1 Set	Stack/expansion frame for cable connection box, incl. screws Article No. per pack/unit Pack = 1 Set	Closing plates cable connection box Article No. per pack/unit Pack = 1 Set	Contents
50	**XTPFUUZ-H50** 174017	-	**XTPFCUV1-H50MW600** 174049	
100	**XTPFUUZ-H100** 174018	-	**XTPFCUV1-H100MW600** 174050	KT21 = 1 pc. KT29 = 2 pcs.
150	**XTPFUUZ-H150** 174019	**XTPFCUB-H150MW600** 174042	**XTPFCUV1-H150MW600** 174052	KT21 = 1 pc. KT29 = 2 pcs.
200	**XTPFUUZ-H200** 174020	**XTPFCUB-H200MW600** 174043	**XTPFCUV1-H200MW600** 174053	KT21 = 1 pc. KT29 = 4 pcs.
250	**XTPFUUZ-H250** 174021	**XTPFCUB-H250MW600** 174044	**XTPFCUV1-H250MW600** 174054	KT21 = 1 pc. KT29 = 6 pcs.
300	**XTPFUUZ-H300** 174022	**XTPFCUB-H300MW600** 174045	**XTPFCUV1-H300MW600** 174055	KT21 = 1 pc. KT29 = 8 pcs.
350	**XTPFUUZ-H350** 174023	-	-	
400	**XTPFUUZ-H400** 174024	**XTPFCUB-H400MW600** 174046	**XTPFCUV1-H400MW600** 174056	KT21 = 1 pc. KT29 = 12 pcs.
500	**XTPFUUZ-H500** 174025	**XTPFCUB-H500MW600** 174047	**XTPFCUV1-H500MW600** 174057	KT21 = 1 pc. KT42 = 8 pcs.
600	**XTPFUUZ-H600** 174026	**XTPFCUB-H600MW600** 174048	**XTPFCUV1-H600MW600** 174058	KT21 = 1 pc. KT42 = 10 pcs.
800	**XTPFUUZ-H800** 174027	-	-	
1000	**XTPFUUZ-H1000** 174028	-	-	
1200	**XTPFUUZ-H1200** 174041	-	-	

General Accessories

Mounting Plates undrilled

Incl. fixing material.

wa_vt33513

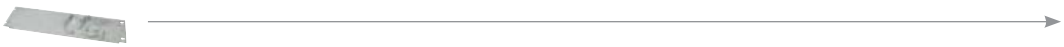


Width mm	H = 150 mm Article No. per pack/unit Pack = 1 Set	H = 200 mm Article No. per pack/unit Pack = 1 Set	H = 250 mm Article No. per pack/unit Pack = 1 Set	H = 300 mm Article No. per pack/unit Pack = 1 Set	H = 350 mm Article No. per pack/unit Pack = 1 Set	H = 400 mm Article No. per pack/unit Pack = 1 Set	H = 500 mm Article No. per pack/unit Pack = 1 Set
600	**XME0606M** 284728	**XME0806M** 283945	**XME1006M** 144586	**XME1206M** 285686	**XME1406M** 171724	**XME1606M** 283951	**XME2006M** 171725

Mounting Plates undrilled (continued)

Incl. fixing material.

wa_vt33513

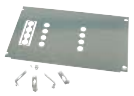


Width mm	H = 600 mm Article No. per pack/unit Pack = 1 Set	H = 800 mm Article No. per pack/unit Pack = 1 Set	H = 950 mm Article No. per pack/unit Pack = 1 Set	H = 1000 mm Article No. per pack/unit Pack = 1 Set	H = 1200 mm Article No. per pack/unit Pack = 1 Set
600	**XME2406M** 285687	**XME3206M** 126010	**XME3806M** 171660	**XME4006M** 171726	**XME4806M** 171727

Accessories for Outgoing Section

Mounting Plates for Box Solution

VT00909



Width mm	NZM1 3+4-pole H = 200 mm horizontal Article No. per pack/unit	NZM2 3-pole H = 200 mm horizontal Article No. per pack/unit	NZM2 4-pole H = 300 mm fixed/withdrawable horizontal Article No. per pack/unit	NZM3 3+4-pole H = 300 mm fixed and plug-in horizontal Article No. per pack/unit	NZM3 3+4-pole H = 500 mm withdrawable horizontal Article No. per pack/unit
425	**XMN130804M-BS** 125973	**XMN230804M-BS** 125974	**XMN241204M-BS** 125975	-	-
600	**XMN130806M-BS** 125977	**XMN230806M-BS** 125978	**XMN241206M-BS** 125979	**XMN341206M-F-BS** 125980	**XMN342006M-W-BS** 125981

Snap-on cover without cut-out for Box Solution

VT00709



Width mm	H = 150 mm Article No. per pack/unit	H = 250 mm Article No. per pack/unit
425	**XMC0604-BS** 125983 125987*	**XMC1004-BS** 125984 125988*
600	**XMC0606-BS** 125985 125989*	**XMC1006-BS** 125986 125990*

Note * Finish in special RAL colour

Doors for Box Solution - compatible with xEnergy Light

Incl. hinge material. Standard lock = 3 mm two-way key-bit.

wa_vt63113

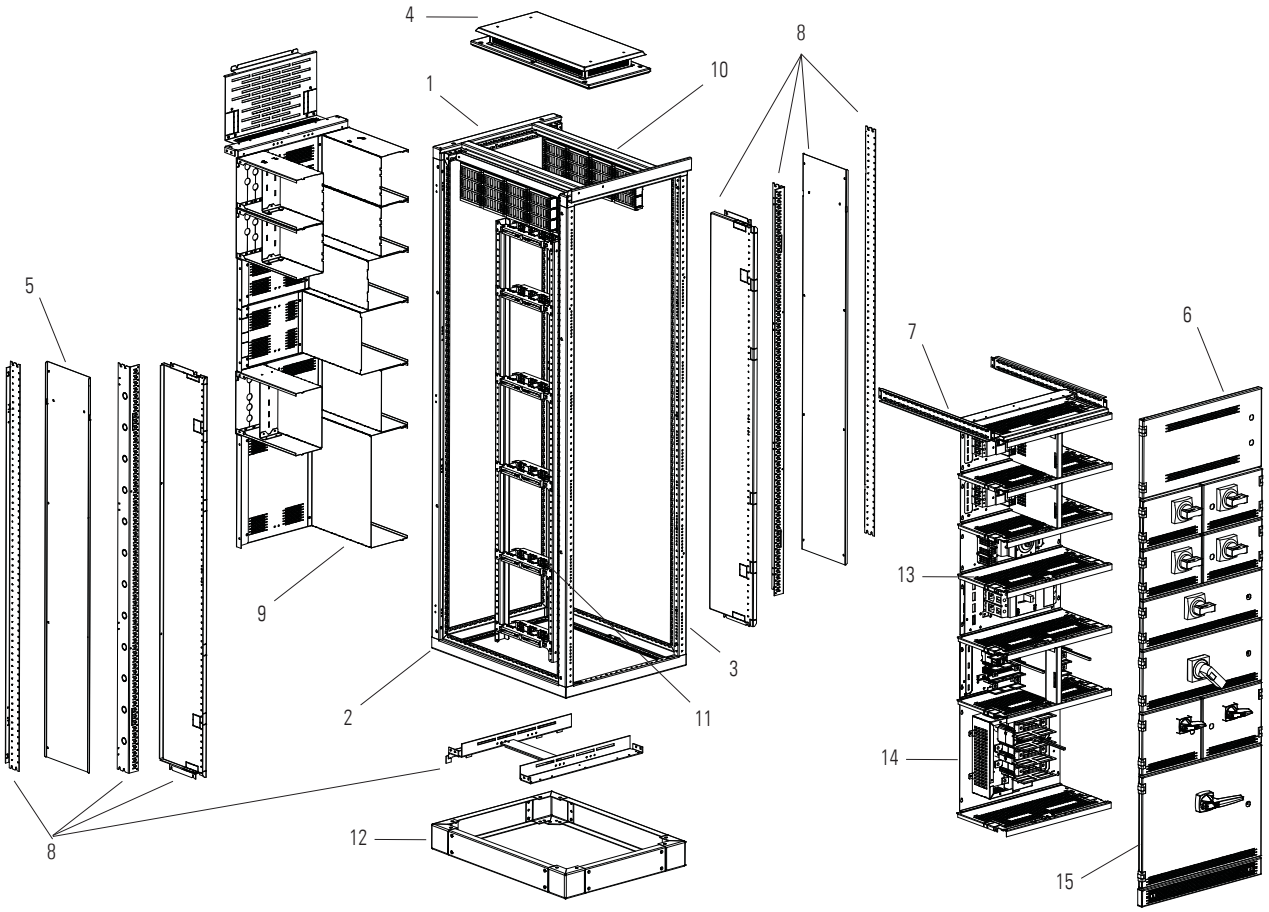


Höhe mm	Doors to switchgear area width 600 mm, suitable for left and right side, up to IP55 Article No. per pack/unit Pack = 1 pc.
Doors for Box Solution	
200	**XSDBSC0206** 167537 167543*
250	**XSDBSC02506** 171680 171707*
300	**XSDBSC0306** 167538 167544*
350	**XSDBSC03506** 167539 167545*
400	**XSDBSC0406** 167540 167546*
500	**XSDBSC0506** 167541 167547*
600	**XSDBSC0606** 167542 167548*
800	**XSDBSC0806** 171681 171708*
975	**XSDBSC097506** 171682 171709*
1000	**XSDBSC1006** 171683 171710*
1200	**XSDBSC1206** 171684 171711*

Note * Finish in special RAL colour

Description

explosion_Dragonfly _QSA_NZM_mix_W600



1 Frame - top
2 Frame - bottom
3 Vertical profiles
4 Top panel
5 Separation panel
6 Door to wiring/control module
7 Partition main busbar
8 Fitting kit
9 Partition dropper busbar/terminal area
10 Main busbar support
11 Dropper bar supports
12 Plinth
13 Separation panel module/module
14 Cable entry cable box
15 Module
16 Module Doors

Features

- Widths: 600, 800 mm
- Module widths: 600, 800 mm
- 3, 4, 3P+N
- Form 4
- IP31
- Circuit breaker can be used with plug-in base
- Can be operated with door-coupling rotary handle
- Each module has a separate module door
- Dropper bar max. 2000 A
- Cable connection area at the rear
- Each module has a separate cable connection box
- Module heights of 200 to 450 mm available
- Max. height available for installation/switchgear area = 1550 mm
- Main busbar possible at the top or bottom

Notes

The upper frame features a blue design strip.
Doors include a locking system for a 3 mm two-way key-bit.
If the cable entry takes place at the top, an additional cable entry section is necessary at the rear.
With cover panels consisting of several parts it may be necessary to ensure the required degree of protection through additional measures.
The maximum installation height available for mounting plates is 1550 mm.
The maximum installation height inside the control module is 280 mm.
For flanges, clip-down handles, lifting eye bolts, 180° hinges, fixeding brackets, Durostone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to the chapter "General Accessories".

xEnergy Main Switchboards

XF Outgoing section, for set-up with DF modules (double modules)

vt29217



vt29317



vt30917



vt29317



Section width mm	Fitting kit includes all mounting brackets and screws	Horizontal partition set for main busbar at the top, between busbar area for main and switchgear area cover vertically at the rear	Mounting-rail set for the dropper busbar busbar at the top main	Horizontal partition set for the main busbar at the bottom, between busbar area for main and switchgear area cover vertically at the rear	Mounting-rail set for the dropper busbar busbar at the bottom
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
600	**XTMFS-DF** 192808	**XTMFBTB06-DF** 192809	**XTDFDTB06-DF** 192815	**XTMFBBB06-DF** 192811	**XTDFDTB06-DF** 192815
800	**XTMFS-DF** 192808	**XTMFBTB08-DF** 192810	**XTDFDTB08-DF** 192816	**XTMFBBB06-DF** 192812	**XTDFDTB08-DF** 192816

XF Outgoing section, for set-up with DF modules (double modules)

wa_vt58813



VT37813



VT37913



VT05007



Dropper bar support to be found in accessories list, number and distance vary in line with requirements	Set of dropper bar supports for PE/PEN in the cable connection area, consisting of 4 angle brackets, incl. screws (to be mounted on XAR/cable anchoring rail)	Set of dropper bar supports for neutral conductor in the cable connection area (to be mounted on XAR/cable anchoring rail)	Cable anchoring rail required for installation of N and PEN in the cable connection area	IP31 front filler to be used if busbar is positioned at top or bottom
Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
see page xx	**XTDWSPE1** 172664	**XTDWSVN1** 172663	**XAR04** 283850	**XTSZSV3-H75W600** 192915
see page xx	**XTDWSPE1** 172664	**XTDWSVN1** 172663	**XAR04** 283850	**XTSZSV3-H75W800** 192916

VT39413



Wiring and control module
for the installation of various electrical components, prepared for the installation of a cable duct

Article No.
per pack/unit

XTPWBAVC-H325W600
172677

XTPWBAVC-H325W800
172678

VT36613



Cover
in front of main busbars instead of a control module, incl. screws, suitable at top or bottom main busbar

Article No.
per pack/unit

XTPWBAVP-H325W600
172687

XTPWBAVP-H325W800
172688

VT36213



IP31 Door to control module
H = 325 mm, suitable for left and right side, suitable at top or bottom main busbar, incl. hinges, 3 mm two-way key-bit lock, key and screws

Article No.
per pack/unit

XTSZDSQC-H325W600
172707

XTSZDSQC-H325W800
172708

vt30417



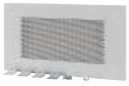
IP31 Door to control module
H = 325 mm, left-hinged, width 600 mm = 8 cut-outs 92/92, width 800 mm = 10 cut-outs 92/92, suitable at top or bottom main busbar, incl. hinges, 3 mm two-way key-bit lock, key and screws

Article No.
per pack/unit

XTSZDSQMV3-H325W600
192909

XTSZDSQMV3-H325W800
192910

vt30617



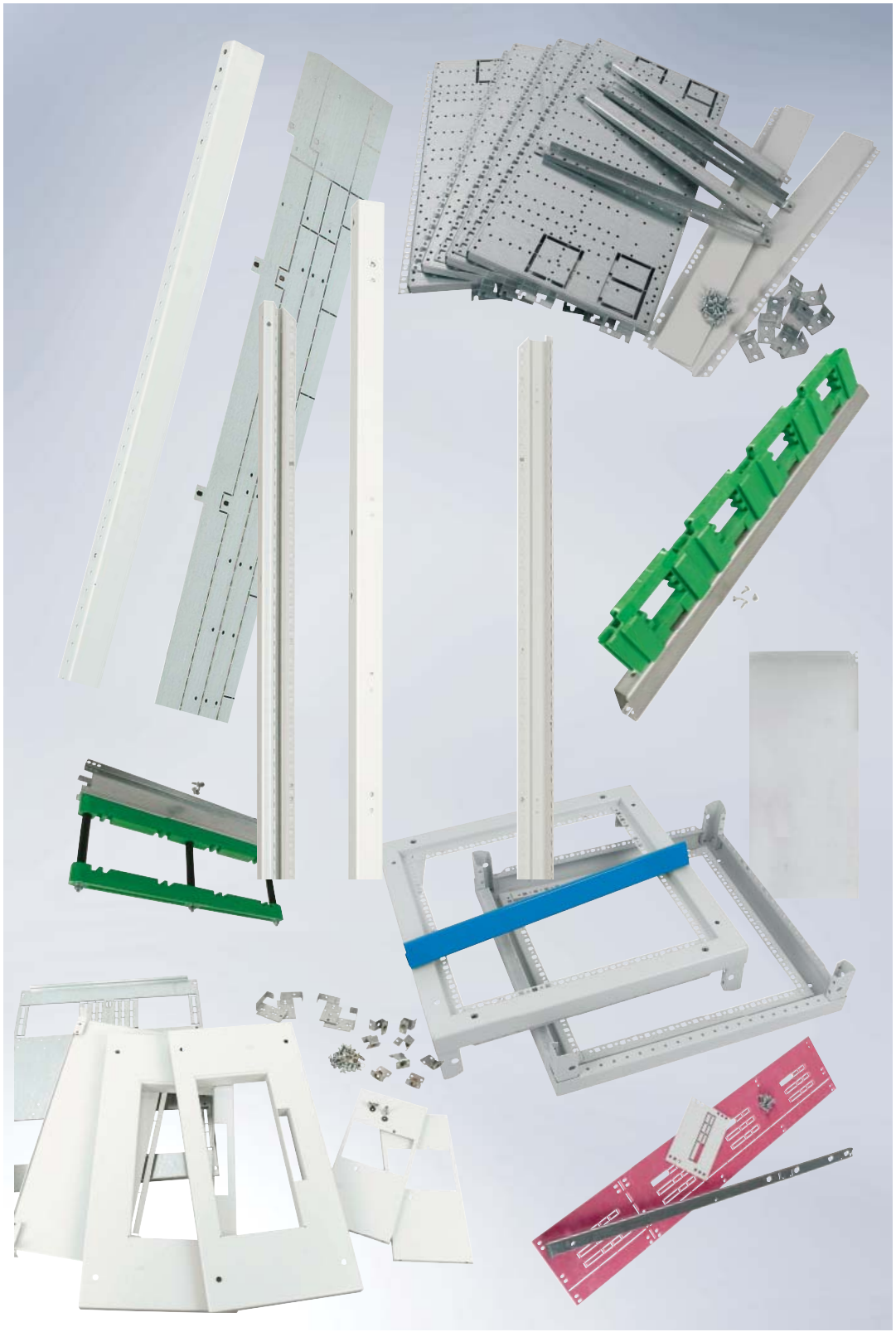
IP31 Plug-in plate for control module
H = 325 mm,
suitable at top or bottom main busbar, includes mounting brackets, bayonet mounts and screws

Article No. per pack/unit
XTSZCSVT3-H325W600 192911
XTSZCSVT3-H325W800 192912

xEnergy Main Switchboards

Components for XF Outgoing section

Components for XF Outgoing section



Dropper bar support

- The number of supports is determined by the required short-circuit resistance rating
- For more information, see the technical data

VT04507



2x40/10 up to max. 65 kA	2x60/10 up to max. 80 kA	2x60/10 up to max. 100 kA
Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
XTDFSV2X40X10/65 192817	**XTDFSV2X60X10/80** 192818	**XTDFSV2X60X10/100** 192819

IP31 Empty-space covers

- Incl. fixing bracket, bayonet mounts and screws

Module height mm	Module width 600	Module width 800
	Article No. per pack/unit	Article No. per pack/unit
100	**XTSZCC3-H100W600** 192931	**XTSZCC3-H100W800** 192935
150	**XTSZCC3-H150W600** 192932	**XTSZCC3-H100W800** 192936
200	**XTSZCC3-H200W600** 192933	**XTSZCC3-H200W800** 192937
500	**XTSZCC3-H500W600** 192934	**XTSZCC3-H500W800** 192938

Empty-space cover

- Consists of: horizontal and vertical partition behind the dropper busbar

vt29117



Module height mm	Module width 600	Module width 800
	Article No. per pack/unit	Article No. per pack/unit
100	**XTPFUUHP-H100W600** 192923	**XTPFUUHP-H100W800** 192927
150	**XTPFUUHP-H150W600** 192924	**XTPFUUHP-H150W800** 192928
200	**XTPFUUHP-H200W600** 192925	**XTPFUUHP-H200W800** 192929
500	**XTPFUUHP-H500W600** 192926	**XTPFUUHP-H500W800** 192930

Empty-space cover for measuring device cut-outs

Empty-space cover for measuring device cut-outs 92x92
Article No. per pack/unit
EM96BP 167083

Control module and corresponding module doors

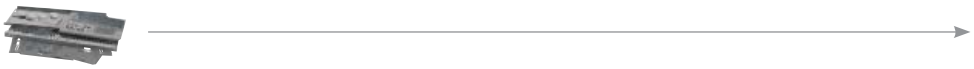
VT39413	VT36613	VT36213	vt30417
			
Wiring and control module for the installation of various electrical components, prepared for the installation of a cable duct	Cover in front of main busbars instead of a control module, incl. screws, suitable at top or bottom main busbar	IP31 Door to control module, H = 325 mm, suitable for left and right side, suitable at top or bottom main busbar, incl. hinges, 3 mm two-way key-bit lock, key and screws	IP31 Door to control module, H = 325 mm, left-hinged, width 600 mm = 8 cut-outs 92/92, width 800 mm = 10 cut-outs 92/92, suitable at top or bottom main busbar, incl. hinges, 3 mm two-way key-bit lock, key and screws
Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
XTPWBAVC-H325W600 172677	**XTPWBAVP-H325W600** 172687	**XTSZDSQC-H325W600** 172707	**XTSZDSQMV3-H325W600** 192909
XTPWBAVC-H325W800 172678	**XTPWBAVP-H325W800** 172688	**XTSZDSQC-H325W800** 172708	**XTSZDSQMV3-H325W800** 192910

DF-NZM Modules

- Complete module
- Incl. mounting plate, partitions, covers, dropper busbar in accordance with module height, partitions to the terminal areas, feedthroughs for the busbars, screws
- Module doors must be ordered separately!

Module width 600 mm

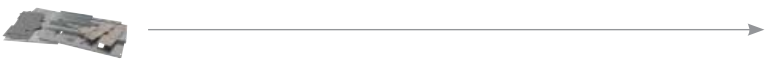
vt29417



	NZM1 H = 200 mm I_n = 160 A max. Article No. per pack/unit	NZM2 H = 200 mm I_n = 250 A max. Article No. per pack/unit	NZM3 H = 250 mm I_n = 400 A max. Article No. per pack/unit	NZM3 H = 350 mm I_n = 630 A max. Article No. per pack/unit
Single modules	-	**XTMF/NZM2/600/200-DF** 192825	-	**XTMF/NZM3/600/350-DF** 192830
Double modules	**XTMF/2XNZM1/600/200-DF** 192820	-	-	-
Single module with socket base	-	**XTMF/PI/NZM2/600/200-DF** 192826	**XTMF/NZM3/600/250-DF** 192827	-
Double module with socket base	-	-	-	-

Module width 800 mm

vt30717



vt29017



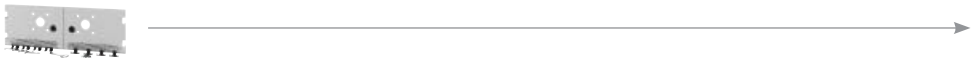
	NZM1 H = 200 mm I_n = 160 A max. Article No. per pack/unit	NZM2 H = 200 mm I_n = 250 A max. Article No. per pack/unit	NZM3 H = 250 mm I_n = 400 A max. Article No. per pack/unit	NZM3 H = 350 mm I_n = 630 A max. Article No. per pack/unit	NZM4 H = 450 mm I_n = 1250 A max. Article No. per pack/unit
Single modules	-	-	**XTMF/NZM3/800/250-DF** 192828	**XTMF/NZM3/800/350-DF** 193831	**XTMF/NZM4/800/450-DF** 192780
Double modules	**XTMF/2XNZM1/800/200-DF** 192821	**XTMF/2XNZM2/800/200-DF** 192823	-	-	-
Single module with socket base	-	-	**XTMF/PI/NZM3/800/250-DF** 192829	**XTMF/PI/NZM3/800/350-DF** 192832	-
Double module with socket base	**XTMF/PI/2XNZM1/800/200-DF** 192822	**XTMF/PI/2XNZM2/800/200-DF** 192824	-	-	-

DF Module doors NZM

- IP31 ventilated
- Cut-outs for rotary drives
- Incl. hinges, locking system and screws

Module width 600 mm

vt33217



	NZM1 H = 200 mm I_n = 160 A max. Article No. per pack/unit	NZM2 H = 200 mm I_n = 250 A max. Article No. per pack/unit	NZM3 H = 250 mm I_n = 400 A max. Article No. per pack/unit	NZM3 H = 350 mm I_n = 630 A max. Article No. per pack/unit
Single modules	-	**XTSZDMV3/NZM2-0602-DF** 192786	-	**XTSZDMV3/NZM3-06035-DF** 192790
Double modules	**XTSZDMV3/2XNZM1/0602-DF** 192781	-	-	-
Single module with socket base	-	**XTSZDMV3/PI/NZM2-0602-DF** 192787	**XTSZDMV3/NZM3-06025-DF** 192788	-
Double module with socket base	-	-	-	-

Module width 800 mm

vt30517



	NZM1 H = 200 mm I_n = 160 A max. Article No. per pack/unit	NZM2 H = 200 mm I_n = 250 A max. Article No. per pack/unit	NZM3 H = 250 mm I_n = 400 A max. Article No. per pack/unit	NZM3 H = 350 mm I_n = 630 A max. Article No. per pack/unit	NZM4 H = 450 mm I_n = 1250 A max. Article No. per pack/unit
Single modules	-	-	**XTSZDMV3/NZM3-08025-DF** 192789	**XTSZDMV3/NZM3-08035-DF** 192791	**XTSZDMV3/NZM4-08045-DF** 192792
Double modules	**XTSZDMV3/2XNZM1/0802-DF** 192782	**XTSZDMV3/2XNZM2-0802-DF** 192784	-	-	-
Single module with socket base	-	-	**XTSZDMV3/NZM3-08025-DF** 192789	**XTSZDMV3/NZM3-08035-DF** 192791	-
Double module with socket base	**XTSZDMV4/2XNZM1/0602-DF** 192783	**XTSZDMV3/PI/2XNZM2-0802-DF** 192785	-	-	-

DF-QSA Modules

- Complete module
- Incl. mounting plate, partitions, covers, dropper busbar in accordance with module height, partitions to the terminal areas, feedthroughs for the busbars, screws
- Module doors must be ordered separately!

Module width 600 mm

vt30817



	QSA-0 H = 200 mm I_n = 63 A max. Article No. per pack/unit	QSA-1 H = 200 mm I_n = 125 A max. Article No. per pack/unit	QSA-1 H = 250 mm I_n = 160 A max. Article No. per pack/unit	QSA-2 H = 350 mm I_n = 250 A max. Article No. per pack/unit	QSA-2 H = 450 mm I_n = 400 A max. Article No. per pack/unit	QSA-3 H = 500 mm I_n = 800 A max. Article No. per pack/unit
Single modules	-	-	-	**XTMF/QSA250/800/350-DF** 192953	**XTMF/QSA400/600/450-DF** 192955	**XTMF/QSA800/600/500-DF** 192957
Double modules	**XTMF/2XQSA63/600/200-DF** 192947	**XTMF/2XQSA125/600/250-DF** 192949	**XTMF/2XQSA160/600/250-DF** 192951	-	-	-

DF Module doors for QSA Modules

- IP31 ventilated
- Cut-outs for rotary drives
- Incl. hinges, locking system and screws

Module width 600 mm

vt30517



	QSA-0 H = 200 mm I_n = 63 A max. Article No. per pack/unit	QSA-1 H = 200 mm I_n = 125 A max. Article No. per pack/unit	QSA-1 H = 250 mm I_n = 160 A max. Article No. per pack/unit	QSA-2 H = 350 mm I_n = 250 A max. Article No. per pack/unit	QSA-2 H = 450 mm I_n = 400 A max. Article No. per pack/unit	QSA-3 H = 500 mm I_n = 800 A max. Article No. per pack/unit
Single modules	-	-	-	-	**XTSZDMV3/QSA400/06045-DF** 192965	**XTSZDMV3/QSA800/0605-DF** 192967
Double modules	**XTSZDMV3/2XQSA63/0602-DF** 192959	**XTSZDMV3/2XQSA125-160/06025-DF** 192961	**XTSZDMV3/2XQSA125-160/06025-DF** 192961	**XTSZDMV3/QSA250/06035-DF** 192963	-	-

Technical Data - Main Busbar Top

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• Dimensions ..... Page xx
• Functional Principle for High-Current Systems ..... Page xx
• Passive Arc Fault Protection with BXT ..... Page xx
• Max. Current Load and Power Loss ..... Page xx
• Short-Circuit Strength ..... Page xx
• Power Loss ..... Page xx
• XF Outgoing Section Form 2 ..... Page xx
• XF Outgoing Section Form 4 ..... Page xx
• XF Outgoing Section Form 4 / Box Solution ..... Page xx
• DF Outgoing Section Form 4 / Twin Modules Technology ..... Page xx
• XW Outgoing Section Form 4 ..... Page xx

Technical Data

Material		
Base material		Stainless steel 2 mm
Screws		Stainless steel
Copper to be used		30x10

General information		
Standards/Regulations		IEC 61439-1/2, IEC-TR61641, DEKRA
Internal separation		Form 1 to 4 / up to Type 7
Ambient temperature		-5 to +50 °C
Copper to be used according to standard		EN 13601-CU-ETP-R250-SH
Relative air humidity		50 % at 40 °C
Protective measures		Protection class I, connection of earth conductor
Degree of protection		IP31, IP42, IP55 according to IEC/EN 60529
Rated insulation voltage	U_i	1000 V
Rated operational voltage	U_e	690 V
Insulation coordination		III/3
Insulation voltage	U_{imp}	up to 12 kV
Overvoltage category		IV
Degree of pollution		3
Rated frequency		40-60 Hz
Rated current of busbars	I_e	7966 A
Rated short-time withstand current of busbars	I_{CW}	up to 105 kA (1s) up to 66 kA (3s)
Rated peak withstand current of busbars	I_{pk}	220 kA
Center-to-center distance between phases		132,5 mm
Sheet thickness		Door, frame = 2 mm, rear, side and cover panels = 1.5 mm
Metal surfaces		Electrogalvanized, powder-coated
Colour		RAL 7035 light-grey, structured
Lock		Rod lock with 2 or 4-point lock and activation pin, 3 mm two-way key-bit
Pre-requisites for installation		Indoor installation according to IEC/EN 61439
Dimensions		Width: 300, 425, 600, 800, 1000, 1100, 1200, 1350 mm Height: 2000, 2200, 2400 mm Depth: 800 mm
Cabinet plinth		100 or 200 mm

Type Code (continued on the following pages)

XT . . . .

A	General Accesssories	**A**	Small Accessories	**B**	Brackets	**1**	Version 1: L-shape for XP				
						2	Version 2: Copper carrier for connection System (3 Rails)				
						3	Version 3: Copper carrier for connection System (1 Rail)				
						4	Version 4: Bracket for Busbar Support fixation				
		N	Standard parts (Norm)	**S**	Screw	**-DIN939-**	Stud screw	**M10X100**	Size		
								M10X80	Size		
								M10X85	Size		
								M12X180	Size		
								M12X170	Size		
								M10X210	Size		
						-DIN603-	Hexagon Head Screw	**M10X60**	Size		
								M10X70	Size		
								M12X60	Size		
								M12X90	Size		
				W	Washer	**-DIN6340-**	Extra Strong Washer	**M10**	Size		
		P	Plinth	**C**	Cable Access						
B	Main Busbar	**G**	General Purpose	**B**	Busbar Support	**F**	Front Support	**PE**	Earth conductor	**1**	Version 1
						V	Vertical Busbar Arrangement	**PE**	Earth conductor	**1**	Version 1
										2	Version 2
						Z	Busbar Arrangement in Z-Axis	**PE**	Earth conductor	**1**	Version 1
		Z	Unspecified	**B**	Busbar Support	**L**	Left	**12X30X10**	3 Rows (12x30x10)	**/3**	3 Poles
										/4	4 Poles
								4X30X10	1 Row (4x30x10	**/3**	3 Poles
										/4	4 Poles
								8X30X10	2 Rows (8x30x10)	**/3**	3 Poles
										/4	4 Poles
						M	Middle	**12X30X10**	3 Rows (12x30x10)	**/3**	3 Poles
										/4	4 Poles
								4X30X10	1 Row (4x30x10	**/3**	3 Poles
										/4	4 Poles
								8X30X10	2 Rows (8x30x10)	**/3**	3 Poles
										/4	4 Poles
						R	Right	**12X30X10**	3 Rows (12x30x10)	**/3**	3 Poles
										/4	4 Poles
								4X30X10	1 Row (4x30x10	**/3**	3 Poles
										/4	4 Poles
								8X30X10	2 Rows (8x30x10)	**/3**	3 Poles
										/4	4 Poles
D	Dropper Busbar	**W**	Withdrawable Section	**S**	Set	**V**	Vertical Busbar Arrangement	**2X40X10**	800 mm² rated current	**/35**	Short circuit rating 35 kA
										/65	Short circuit rating 65 kA
										/80	Short circuit rating 80 kA
								2X60X10	1200 mm² rated current	**/35**	Short circuit rating 35 kA
										/65	Short circuit rating 65 kA
										/80	Short circuit rating 80 kA
								N	Neutral conductor for rear connection area	**1**	Version 1
								PE	Earth conductor for rear connection area	**1**	Version 1
		F	Fixed Section	**B**	Busbar Support	**M**	Top and Bottom Support	**2X40X10**	800 mm² rated current	**/65**	Short circuit rating 65 kA
										/80	Short circuit rating 80 kA
								2X60X10	1200 mm² rated current	**/65**	Short circuit rating 65 kA
										/80	Short circuit rating 80 kA
				S	Set	**V**	Vertical Busbar Arrangement	**PE**	Earth conductor for rear connection area	**1**	Version 1
						TB	Top and Bottom Support	**2X40X10**	800 mm² rated current	**/65**	Short circuit rating 65 kA
										/80	Short circuit rating 80 kA
								2X60X10	1200 mm² rated current	**/65**	Short circuit rating 65 kA
										/80	Short circuit rating 80 kA

xEnergy Main Switchboards

Type Code (continued)

XT . . . . . .

M	Mounting Kit	**G**	General Purpose	**T**	Transition Section	**-MB**	Middle Base						
						-BB	Bottom Base						
		P	Power	**IX16**	IZMX16	**F**	Fixed	**C**	Cover (Plugged)				
								D	ACB Door				
								M	Mounting Kit				
						W	Withdrawable	**C**	Cover (Plugged)				
								D	ACB Door				
								M	Mounting Kit				
				IX40	IZMX40	**F**	Fixed	**C**	Cover (Plugged)				
								D	ACB Door				
								M	Mounting Kit				
						W	Withdrawable	**C**	Cover (Plugged)				
								D	ACB Door				
								M	Mounting Kit				
		W	Withdrawable	**C**	Additional Mounting Kit for 1000 mm section - connection area								
					Additional Mounting Kit for 800 mm section - connection area								
				S	XW Section Mounting Kit for a 600 mm section								
		F	Fixed	**A**	Accessories	**R**	Cable Anchoring Rail Set	**1**	Version 1				
				C	Additional Mounting Kit for 800 mm section - connection area	**4**	Form 4						
				F	Front Cover Frame								
				S	XF Section Mounting Kit for a 600 mm section	**2**	Form 2						
						4	Form 4						
P	Partition	**G**	General Purpose	**V**	Orientation Vertical	**PC**	Plastic Plate						
		P	Power	**C**	Cable Room	**A**	Auxilliary Device Area	**V**	Orientation Vertical	**C**	Aux compartment		
				IX16	IZMX16	**B**	Busbar Area	**H**	Orientation Horizontal				
								V	Orientation Vertical	**3PN**	3P + N		
				IX40	IZMX40	**B**	Busbar Area	**H**	Orientation Horizontal				
								V	Orientation Vertical	**3PN**	3P + N		
				S	Section	**S**	Section	**Z**	Orientation into Z-Axis - (Z)				
				V	Orientation Vertical	**PC**	Plastic Plate						
		W	Withdrawable	**A**	Auxilliary Device Area	**E**	Any other area (Environment)	**Z**	Orientation into Z-Axis - (Z)	**D**	Cable Way/cable Duct		
				B	Busbar Area	**A**	Auxilliary Device Area	**V**	Orientation Vertical	**C**	Aux compartment		
										P	Plate		
				C	Cable Room	**U**	Unit Area	**A**	Accessory	**1**	Version 1: Main Outgoing Contact		
										2	Version 2: Auxilliary Contact		
								B	Box				
								V	Orientation Vertical				
				D	Dropper Busbar Area	**U**	Unit Area	**G**	Galvanized Steel	**35**	35 kA Version		
										65	65 kA Version		
								S	Stainless Steel	**35**	35 kA Version		
										80	80 kA Version		
		Z	Unspecified	**A**	Auxilliary Device Area	**E**	Any other area (Environment)	**H**	Orientation Horizontal	**D**	Cable Way/cable Duct	**2**	Version 2: Closed Pipe
												3	Version 3: Closed Pipe; PE in Front
				B	Busbar Area	**A**	Auxilliary Device Area	**V**	Orientation Vertical	**C**	Aux compartment		
										P	Plate		
						E	Any other area (Environment)	**H**	Orientation Horizontal	**1**	Version 1: Below the lower Busbar (for Standard Baseframe)		
								Z	Orientation into Z-Axis - (Z)	**1**	Version 1: For Stacked ACBs middle Support		
						M	Mounting Area	**H**	Orientation Horizontal	**1**	Version 1: For BBB on TOP		
				S	Section	**S**	Section	**Z**	Orientation into Z-Axis - (Z)	**1**	Version 1: For BBB on TOP		
				U	Unit Area	**T**	Thermal Protection	**H**	Orientation Horizontal	**1**	Version 1: (under IZMX40)		
		F	Fixed	**C**	Cable Room	**U**	Unit Area	**B**	Box	**1**	Version 1		
										2	Version 2		
				D	Dropper Busbar Area	**C**	Cable Room	**Z**	Orientation into Z-Axis - (Z)	**1**	Version 1		
				U	Unit Area	**U**	Unit Area	**H**	Orientation Horizontal	**1**	Version 1		
								Z	Orientation into Z-Axis - (Z)	**1**	Version 1		

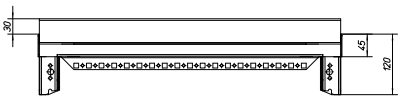
Type Code (continued)

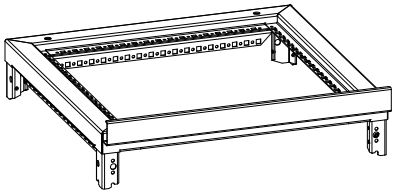
XT . . . .

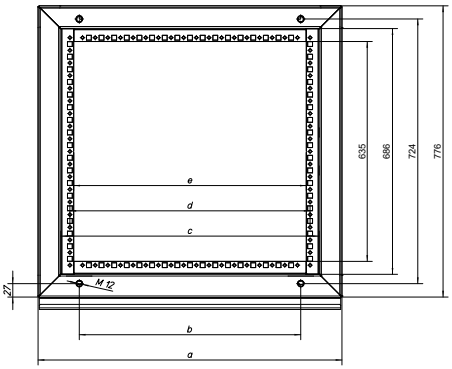
S	Structure	**G**	General Purpose	**F**	Frame	**B**	Base	**A**	Open Frame (Busbar Access)				
								S	Standard				
						H	Height Profile	**1**	Version 1: Transition Section				
		P	Power	**F**	Frame	**H**	Height Profile						
		W	Withdrawable	**E**	Brand (Eaton)	**VDR**	Vertical Design Rail (Eaton Brand)						
				F	Filler	**C**	Closed						
						V3	Ventilated IP31						
		Z	Unspecified	**C**	Cover	**S**	Section Wide Cover						
				D	Door	**C**	Connection Area Door	**K**	Key plate/roller lever	**C**	Closed		
										V3	IP31	**L**	Left
												R	Right
										V4	IP42	**L**	Left
												R	Right
						M	Mounting Area	**K**	Key plate/roller lever	**C**	Closed		
										V3	IP31	**L**	Left
												R	Right
										V4	IP42	**L**	Left
												R	Right
						PA	Partition Accessory	**2**	2 Collumns				
								3	3 Collumns				
								4	4 Collumns				
								5	5 Collumns				
						S	Section Door	**K**	Key plate/roller lever	**V4**	IP42	**L**	Left
												R	Right
												S	Split Door
								Q	Quater lock	**C**	IP55		
										V3	IP31	**L**	Left
												R	Right
										V4	IP42	**L**	Left
												R	Right
				F	Frame	**B**	Base	**A**	Open Frame (Busbar Access)				
								S	Standard				
						H	Height Profile						
				P	Plates	**T**	Top plate	**A**	Open Frame (Busbar Access)	**C**	Closed		
										PA	Partition Accessory		
										V	Ventilated		
								C	Connection Roof	**C**	Closed		
										PA	Partition Accessory		
										V	Ventilated		
				R	Rearwall	**C**	Closed						
						PA	Partition Accessory	**2**	2 Collumns				
								3	3 Collumns				
								4	4 Collumns				
								5	5 Collumns				
								1	1 Collumn				
						V3	Ventilated IP31						
						V4	Ventilated IP42						
				S	Sidewall	**A**	Open Frame (Busbar Access)	**2**	2nd part - Corner Piece				
		F	Fixed	**F**	Filler	**1**	Version 1: Standard BoxSolution	**C**	Closed				
U	Units	**W**	Withdrawable	**O**	Outgoing Parts	**CC**	Customer Connection	**40X10**	Cross-section 40x10				

Dimensions of the top/bottom elements (standard version)

All dimensions are identical for both applications (top and bottom).
The only difference between the top and bottom elements is that the top elements come with 10 mm thick welded flat-steel sheets to provide for better distribution of the forces when using the eyebolts for transportation purposes.



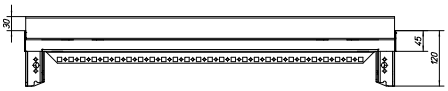


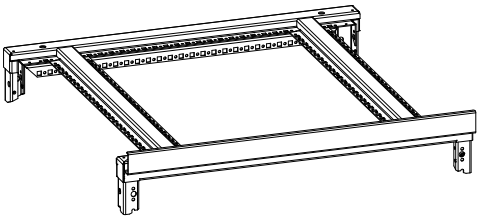


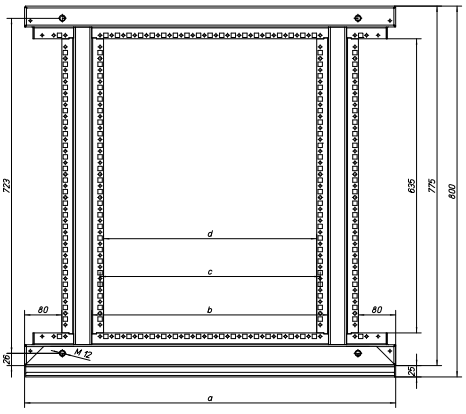
	a	b	c	d	e
W300	300	138	211	175	160
W425	425	263	336	300	285
W600	600	438	511	475	460
W650	650	488	561	525	510
W800	800	638	711	675	660
W850	850	688	761	725	710
W1000	1000	838	911	875	860
W1100	1100	938	1011	975	960
W1200	1200	1038	1111	1075	1060
W1350	1350	1188	1261	1225	1210

XSF_Katalog

Open Frame version



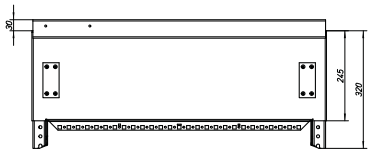


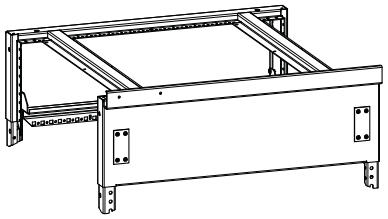


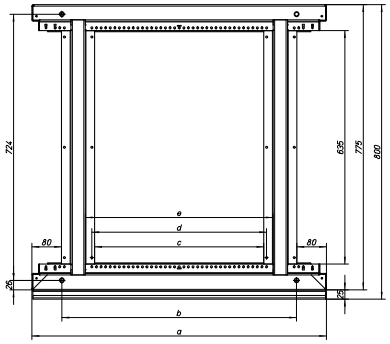
	a	b	c	d
W425	425	136	100	85
W600	600	311	275	260
W800	800	511	475	460
W1000	1000	711	675	660
W1100	1100	811	775	760
W1200	1200	911	875	860
W1350	1350	1061	1025	1010

XTSZFBA_Katalog

Dimensions of the frame structure/top (Open Frame High-Current Version)



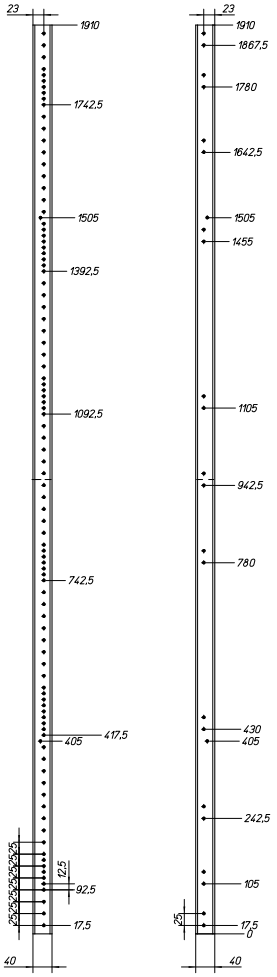




	a	b	c	d	e
W425	425	263	85	100	136
W600	600	438	260	275	311
W800	800	638	460	475	511
W1000	1000	838	660	675	711
W1100	1100	938	760	775	811
W1200	1200	1038	860	875	911
W1350	1350	1188	1010	1025	1061

CAT0000032

Vertical Profile XTSPFH-H2000

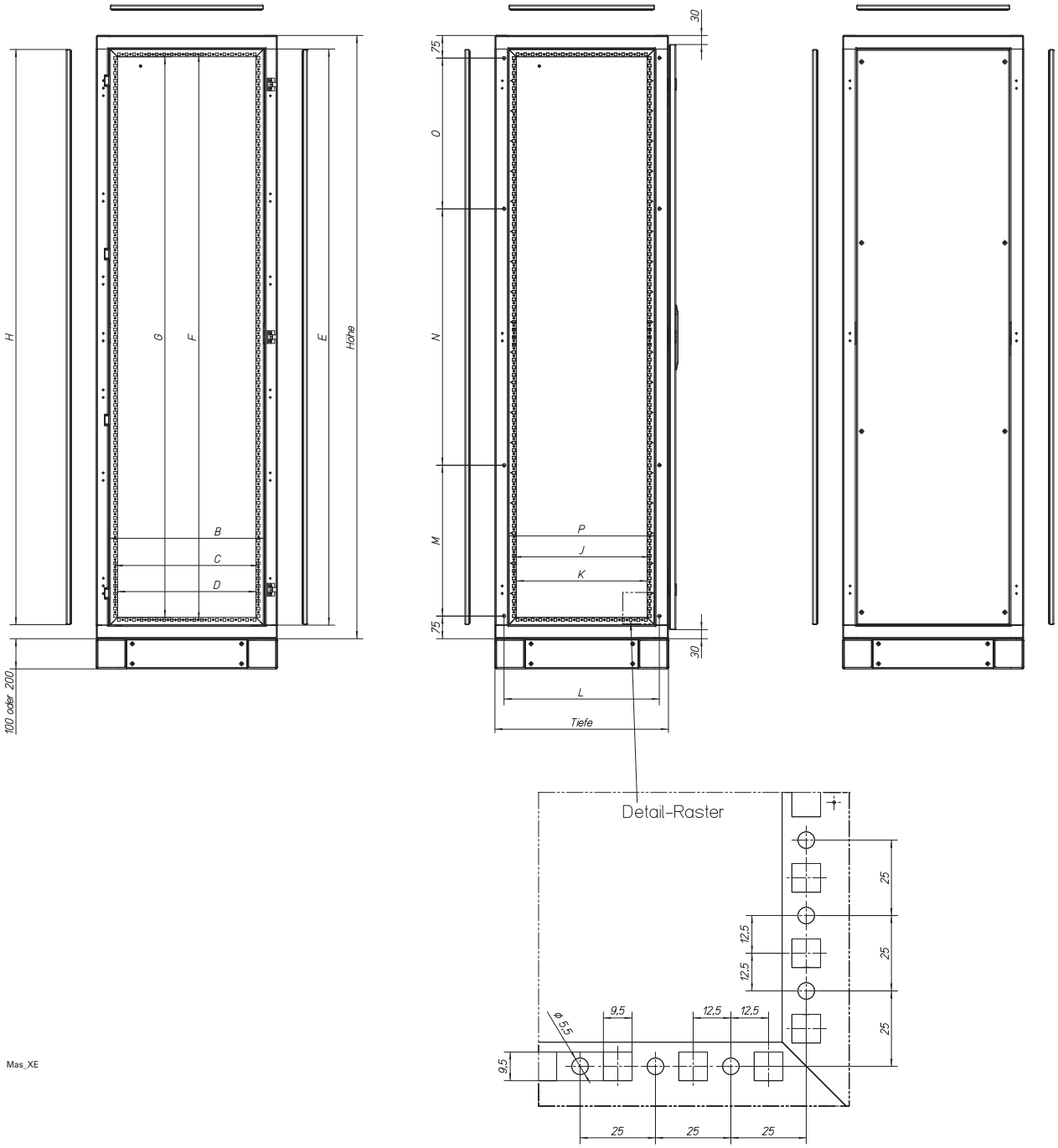


XTSPFH_H2000_Abm

An improvement of the vertical profiles now makes sure that all positions supposed to hold hinges come with pre-punched areas. The crucial advantage of this fact is that you only have to knock out the areas where you actually need a hole to fix the hinges. So it is no longer necessary to cover the holes you don't need with plastic pegs. Use an ordinary punching tool/pin punch (diameter no more than 4 mm) to knock out the required holes.

The vertical profile on the left side shows all pre-punched areas needed for fixing the hinges. The vertical profile on the right side shows all pre-punched areas necessary for cabinets with doors to the cable connection area. If an outgoing section is installed in the mirror-inverted way, the vertical posts can be swapped. Spacing units on the vertical post are 12.5 and 25 mm.

xEnergy Main Dimensions



Mas_XE

Width	A	B	C	D
425	263	345	300	284
600	438	520	475	459
800	638	720	675	659
850	688	770	725	709
1000	838	920	875	859
1100	938	1020	975	959
1200	1038	1120	1075	1059
1350	1188	1270	1225	1209

Height	E	F	G	H
2000	1910	1875	1859	1907

Depth [1]	Depth [2]	I	J	K	L	P
400	**375**	323	250	234	315	182
600	**575**	523	450	434	515	482
800	**775**	723	650	634	715	682

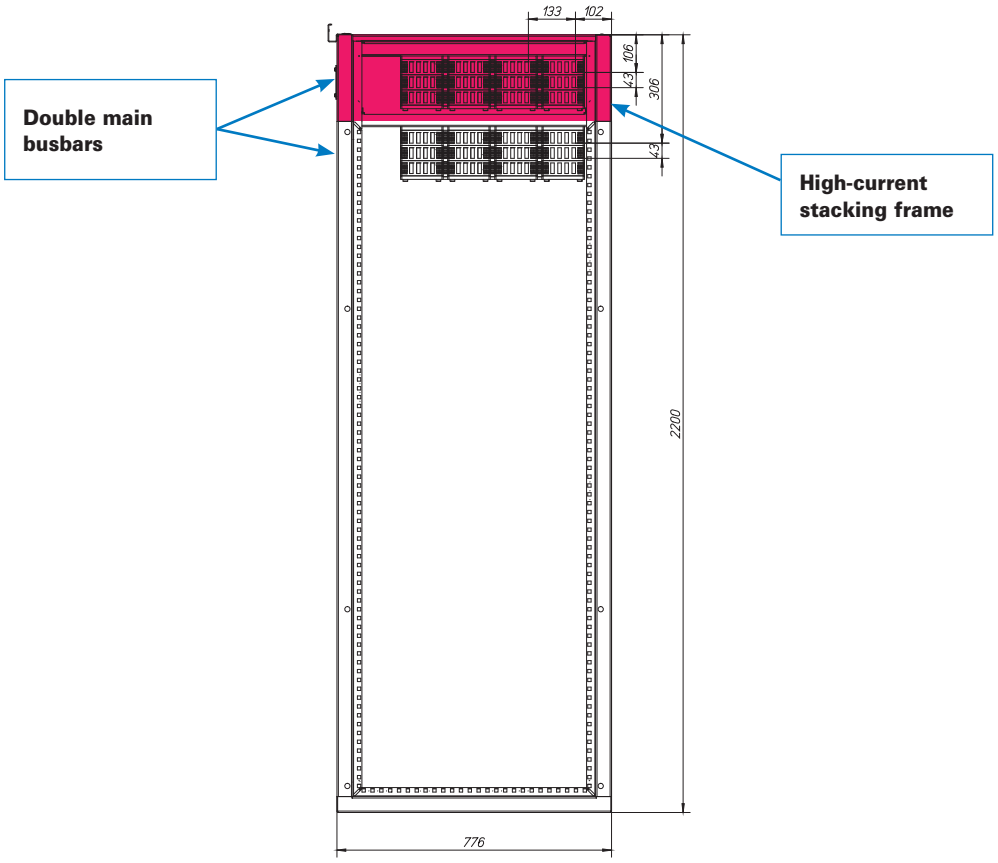
Spacing of the holes			
Height	M	N	O
2000	500	850	500

[1] Depth according to order part
[2] Real depth

As of width 1000 we use two-wing doors.

Functional Principle for High-Current Systems

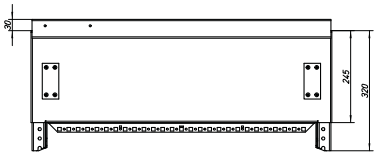
Safe guidance and distribution of rated currents close to 8000 A require an expansion of the system by means of a second main busbar strand arranged in parallel. This second busbar strand has to be mounted in a specially designed high-current frame.

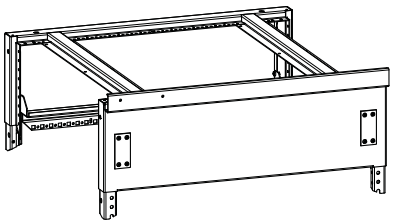


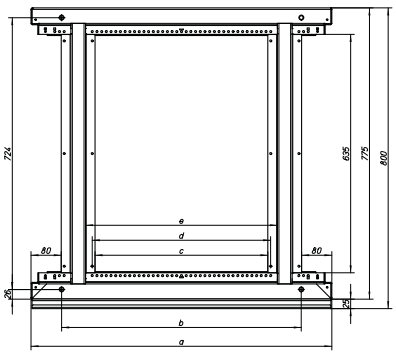
CAT0000029-Colour

Top add-on frame

To meet these requirements, we have developed a base frame in a special design which can be stacked instead of the standard frame. This frame provides enough space to install the second main busbar in parallel. Both main busbars are positioned exactly one on top of the other, with the lower main busbar remaining in its original position (standard BXT version).







	a	b	c	d	e
W425	425	263	85	100	136
W600	600	438	260	275	311
W800	800	638	460	475	511
W1000	1000	838	660	675	711
W1100	1100	938	760	775	811
W1200	1200	1038	860	875	911
W1350	1350	1188	1010	1025	1061

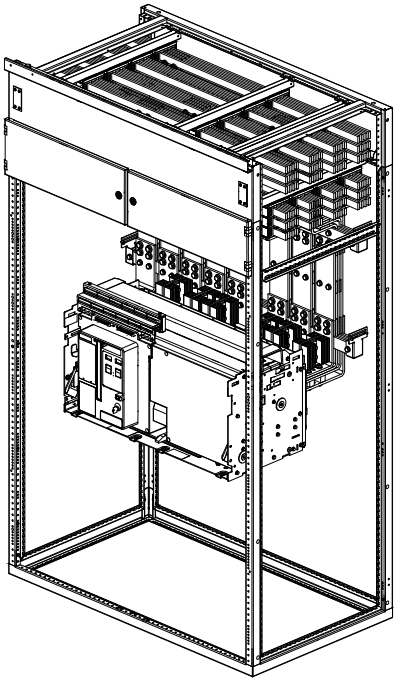
CAT0000032

Integration

This offers the advantage that all busbar connections to the main busbars remain unaffected. Therefore every solution/installation instruction available for standard BXT is also valid for the high-current solution. The only exception are high-current XP sections with IZM63 (rated currents higher than 4000 A). There is a special solution, i.e. installation instruction, and the integration has to be done via both main busbar strands.

There are special installation instructions available for all high-current solutions using XP sections with IZM63.

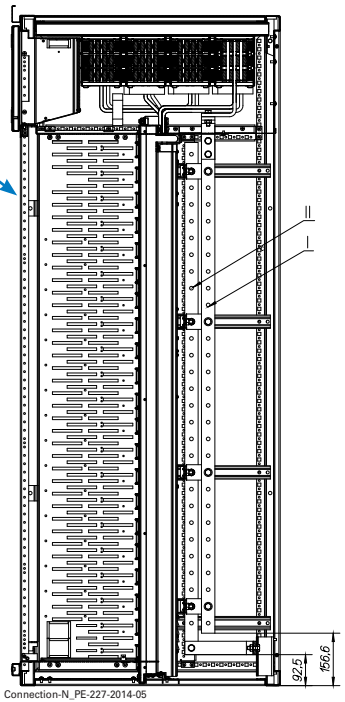
They specify all details on how to establish the contacts on the two busbar strands positioned in parallel.



IZM63_6300A_IOC-W-385-01-08-16

Example

For all other solutions available, as well as for the normal BXT application (up to 4000 A / standard up to 2000m above sea level), you can use the standard installation instructions.

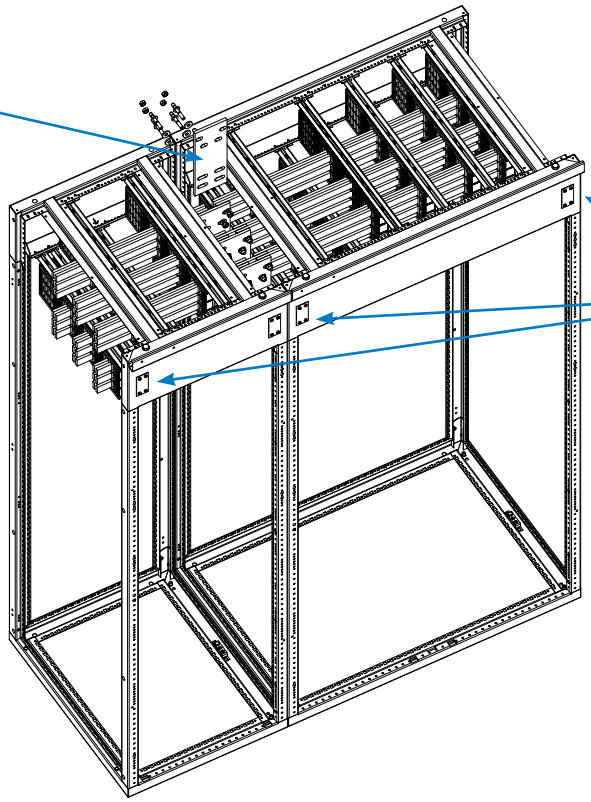


Connection-N_PE-227-2014-05

Transport Separation

The electrical transport separation is carried out in the same way as for the standard solution. The copper straps are designed in way to extend over both strands of the main busbar. Therefore the straps play another role at the same time. They also serve as current-balance bridges. Splitting up the copper straps into two separate straps is not permitted as this would counteract the current-balance function. The fixing screws of the straps can be tightened via the service openings in the frame. Once the installation has been finished, the service openings can be covered up with the cover plates included in the scope of delivery.

Transport strap

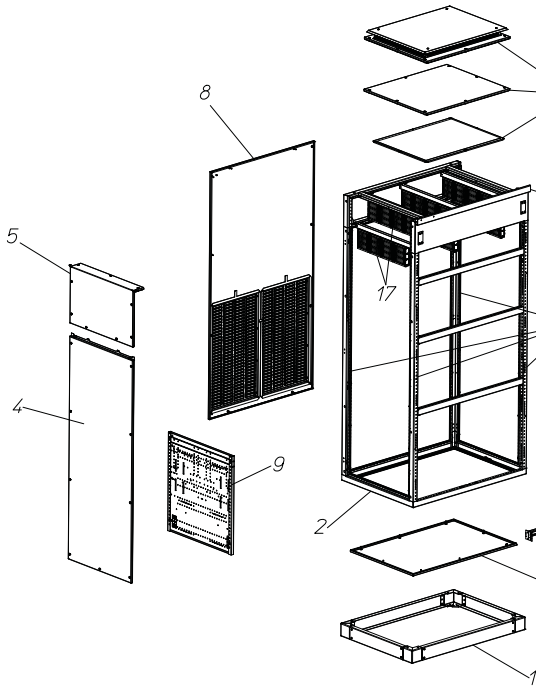


Access for service activities (transport separation)

CAT0000031-2

Planking

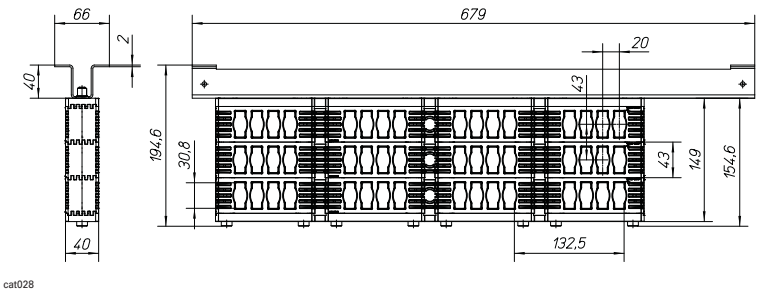
The stacking frame is a closed unit featuring the same shape as the standard frame. Therefore you will not need any additional planking elements. All standard planking elements (top panels, rear panels, doors, side panels) can also be used for the high-current solution. Only the corner section of the side panel (Open Frame) needs to be changed. This is due to the increased height of the stacking frame and the need to run two main busbars.



Dimensions of the main busbar supports

Base material = stainless steel
Screws = stainless steel
Insulation material = fibre-glass reinforced plastic (PA66, 45% fibre-glass reinforced), flame-retardant, no halogens and no phosphor

Support universal



Passive Arc Fault Protection with BXT

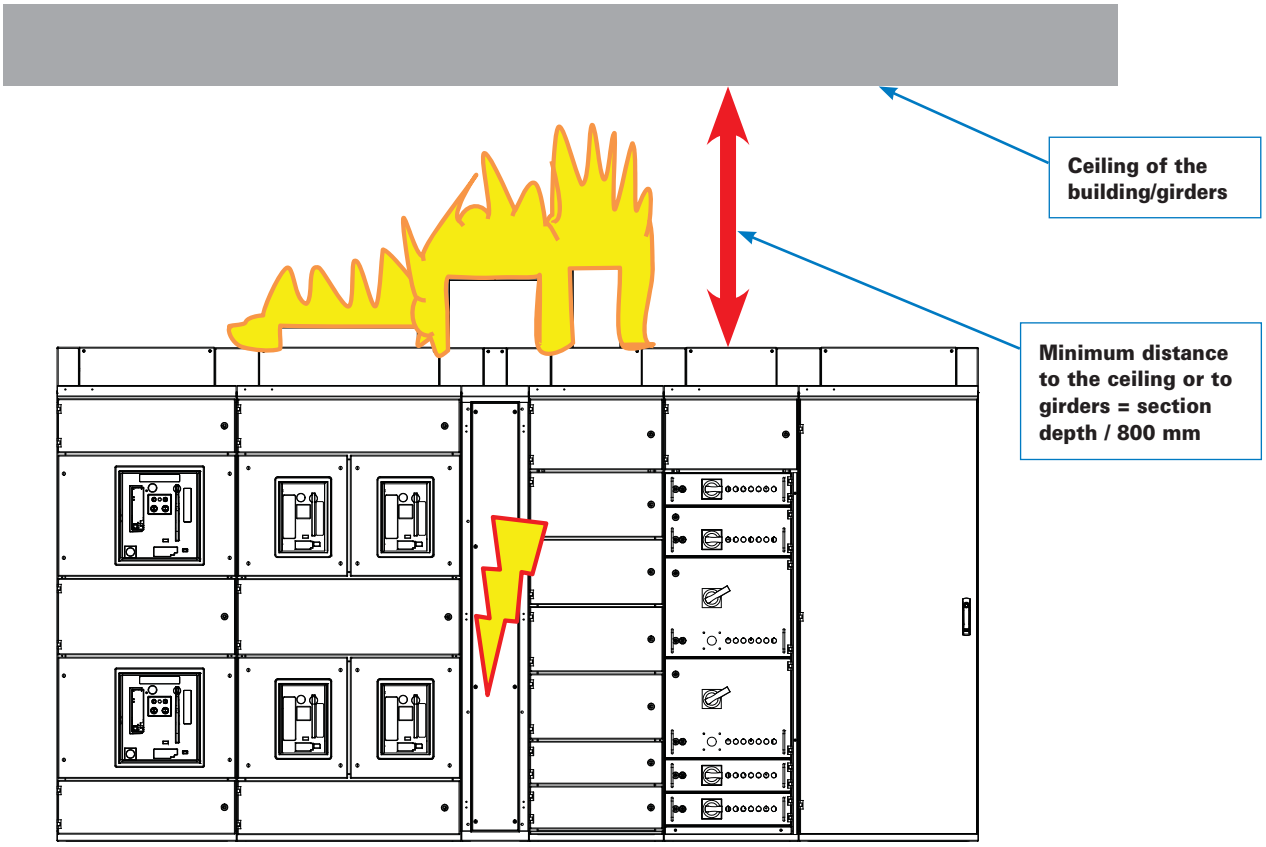
Tested according to IEC/TR61641 in combination with a BXT system (main busbar at the top).

Technical Data

Rated voltage	U_e	400 V	480 V
Criterion		1-6	1-5
Rated insulation voltage	U_i	1000 V	1000 V
Rated frequency		50/60 Hz	50/60 Hz
Uninfluenced current allowed in arc fault conditions	I_{parc}	65 kA	35 kA
Allowed burning duration of an arc fault	t_{arc}	300 ms	300 ms
Degree of protection		IP55[1)]	IP55[1)]
Internal separation		Form 4	Form 4

Building-related pre-requisites:

The entire concept of protecting people is based on the idea of making the pressure due to hot gas developing in the cabinet during an arc fault escape through the top. This is why it is compulsory to have sufficient room height and/or space between the cabinet and the ceiling or other super stuctures to ensure that the pressure relief covers can open completely. The minimum distance between the upper edge of the cabinet and the ceiling (or the deepest element of the building) is at least the depth of the cabinet. This is a pre-requisite for the gas to escape from the cabinet without hindrance.



ARC_BXT

Note [1)] Only in combination with outstanding roof flap. With top plate in old design, max IP rating is IP30.

In order to meet Employees' Safety in the Workplace requirements, criteria 1-5 must be complied with.

Criterion 1:

a) Ventilations:

Ventilation slots in doors, rear panels, front, floor and top panels are not allowed in order to prevent hot gas from escaping towards people. This is to make sure that hot gas can be guided towards the top panel. The increased pressure building up during an arc fault blows off the PVC screws in the arc fault cover and all the energy set free in the form of hot gas can escape through the top panel.

No ventilation possible



VT57914

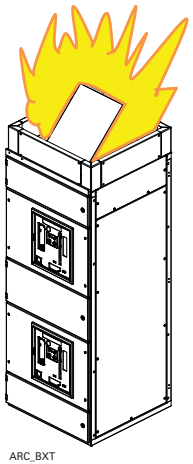
All panels must be without ventilation slots



VT57614

b) Arc fault cover:

The special cover plate is fixed with hinges at the front, and with plastic screws at the back. The increased pressure building up during an upcoming arc fault will tear off the screws and open the cover for the gas to escape. The hinges of the arc fault cover must always be fixed at the front of the cabinet in order not to guide the gas towards people who might be in front of the cabinet.



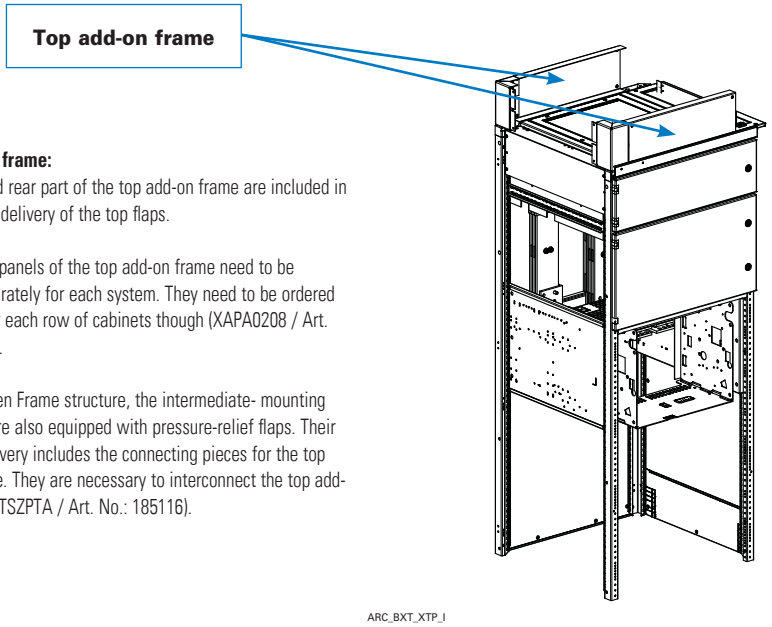
ARC_BXT

c) Properly secured doors - tailhooks:

To make sure the doors can withstand the increased pressure during a short-cirucit, the plastic parts of the lock need to be replaced by metal parts. These metal parts for the locks are included in the scope of delivery of the top flaps. You will not need to order any additional items.

Criterion 2: No system elements that might open or be blown off

To make sure the relief flaps do not open more than 90° in case of a short-circuit (arc fault), a top add-on frame needs to be mounted on top of the structural frame. This will prevent the flaps from completely opening as they might hit and injure a person standing in front of the cabinets. There is no other equipment (such as measuring devices, displays, windows for thermographiy etc.) allowed that might be blown off in case of an arc fault.



ARC_BXT_XTP_I

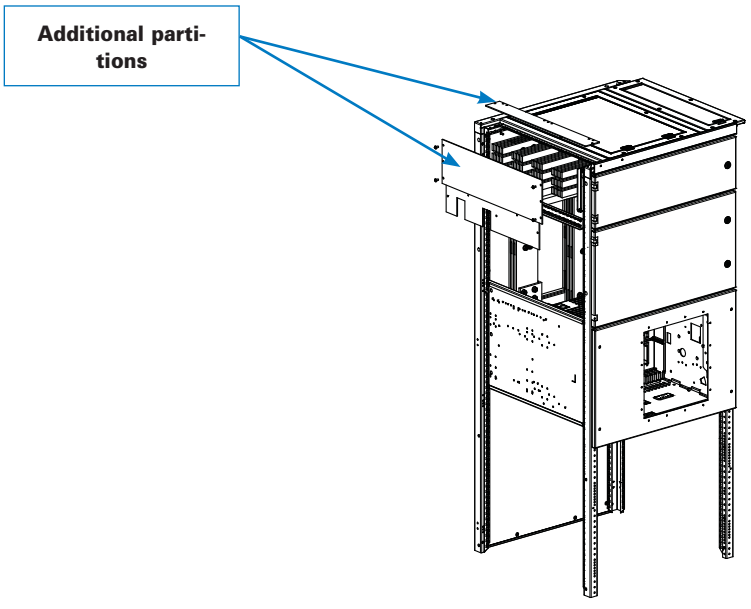
Top add-on frame:
The front and rear part of the top add-on frame are included in the scope of delivery of the top flaps.

But the side panels of the top add-on frame need to be ordered separately for each system. They need to be ordered only once for each row of cabinets though (XAPA0208 / Art. No.: 185118).

With the Open Frame structure, the intermediate- mounting top panels are also equipped with pressure-relief flaps. Their scope of delivery includes the connecting pieces for the top add-on frame. They are necessary to interconnect the top add-on frames (XTSZPTA / Art. No.: 185116).

Criterion 3: No holes in the casing due to the effect of an arc fault (burning holes)

To make sure that no gas can escape through the side panels in case of an arc fault, an additional insulating plate needs to be fixed (XTI-P). This plate will be screw-fixed to the frame at the height of the main busbars (each position - top, middle or bottom). In front of the side panel/corner part XTI-P / Art.No.: 185117 (beginning and end of the system).



ARC_BXT_XTP_I

Criterion 4: No catching fire of vertically positioned indicators

The indicators vertically positioned during the test must not catch fire due to escaping gas. Pre-requisite for this not to happen is that there are no ventilation slots or other openings in the panels or in the outer skin. Gaps or cracks must not open up during an upcoming arc fault. This is supported by our innovative locking system.

An additional function of the plinth at the top is also to guide the escaping hot gas towards the "top". This also ensures that the indicators cannot catch fire and provides the best possible protection for people.

Criterion 5:

The protective conductor circuit for conductive parts of the envelope exposed to human contact is still functional.

Criterion 6:

The arc fault is limited to a defined area of the switchgear combination, and there is no new sparking possible towards the adjacent areas within the switchgear combination. There are no additional partitions or barriers necessary for that purpose. The specially shaped main busbar support plays the role of an additional partition. This is how we can make sure that an upcoming arc fault remains limited to the area between two main busbar supports.

Information on the scope of delivery:

Top panels XTSPTA....
– Top panel with a flap incl. all screws
– Metal replacement parts for locks
– Top add-on frame front and rear part, height = 200 mm
– Incl. screws

End-piece of the top add-on frame:
– 4 pcs. of corner sections
– 2 pcs. of side panels
– Incl. screws

Arc fault partition:
– Insulation plate
– Incl. screws

Rails horizontal

Max. Current Load and Power Loss (P_v) for main busbars

I_n	Copper bars/phase	Degree of protection	Admitted permanent current I depending on the ambient temperature and the degree of protection of the distribution sections			Power loss P_v		
A			25 °C A	35 °C A	50 °C A	25 °C W/m	35 °C W/m	50 °C W/m
In a horizontal orientation of the main busbar / position = top/bottom								
1000	1 x 30 (1000)	IP31 with ventilated top cover	1050	950	800	88	72	51
		IP31 with closed top cover	770	700	600	47	39	29
		IP42 with ventilated top cover	1050	950	800	88	72	51
		IP42 with closed top cover	770	700	600	47	39	29
		IP55	770	700	600	47	39	29
2000	2 x 30 (1250)	IP31 with ventilated top cover	2080	1850	1500	183	145	95
		IP31 with closed top cover	1450	1350	1200	89	77	61
		IP42 with ventilated top cover	2080	1850	1500	183	145	95
		IP42 with closed top cover	1450	1350	1200	89	77	61
		IP55	1450	1350	1200	89	77	61
2500	3 x 30 (1600)	IP31 with ventilated top cover	2680	2450	2100	210	175	129
		IP31 with closed top cover	2130	2000	1800	133	117	95
		IP42 with ventilated top cover	2680	2450	2100	210	175	129
		IP42 with closed top cover	2130	2000	1800	133	117	95
		IP55	2130	2000	1800	133	117	95
3000	6 x 30 (2500)	IP31 with ventilated top cover	3930	3600	3100	237	199	148
		IP31 with closed top cover	2900	2700	2400	129	112	89
		IP42 with ventilated top cover	3930	3600	3000	237	199	138
		IP42 with closed top cover	2900	2700	2400	129	112	89
		IP55	2900	2700	2400	129	112	89
4000	12 x 30 (4000)	IP31 with ventilated top cover	4870	4500	3800	226	193	138
		IP31 with closed top cover	3260	3100	2800	101	92	75
		IP42 with ventilated top cover	4770	4400	3700	217	184	130
		IP42 with closed top cover	3260	3100	2800	101	92	75
		IP55	3260	3100	2800	101	92	75
6300	2 x 6 x 30/10	IP31 with ventilated top cover	7091	6300	5113	479	378	249
		IP31 with closed top cover	5259	4848	4231	263	224	170
		IP42 with ventilated top cover	7091	6300	5113	479	378	249
		IP42 with closed top cover	5259	4848	4231	263	224	170
		IP55	5259	4848	4231	263	224	170
6900	2 x 9 x 30/10	IP31 with ventilated top cover	7767	6900	5600	383	302	199
		IP31 with closed top cover	5577	5200	4634	198	172	136
		IP42 with ventilated top cover	7767	6900	5600	383	302	199
		IP42 with closed top cover	5577	5200	4634	198	172	136
		IP55	5577	5200	4634	198	172	136
7100	2 x 12 x 30/10	IP31 with ventilated top cover	7967	7100	5800	302	240	160
		IP31 with closed top cover	5718	5351	4800	156	136	110
		IP42 with ventilated top cover	7967	7100	5800	302	240	160
		IP42 with closed top cover	5718	5351	4800	156	136	110
		IP55	5718	5351	4800	156	136	110

Rails vertical

Max. Current Load and Power Loss (P_v) for main busbars

I_n	Copper bars/phase	Degree of protection	Admitted permanent current I depending on the ambient temperature and the degree of protection of the distribution sections			Power loss P_v		
A			25 °C A	35 °C A	50 °C A	25 °C W/m	35 °C W/m	50 °C W/m
In a vertical orientation of the main busbar / position = vertical transition field								
6300	2 x 6 x 30/10	IP31 with ventilated top cover	5966	5300	4301	339	268	176
		IP31 with closed top cover	4286	3975	3508	175	150	117
		IP42 with ventilated top cover	5966	5300	4301	339	268	176
		IP42 with closed top cover	4286	3975	3508	175	150	117
		IP55	4286	3975	3508	175	150	117
6900	2 x 9 x 30/10	IP31 with ventilated top cover	7001	6220	5048	311	246	162
		IP31 with closed top cover	5030	4665	4117	161	138	108
		IP42 with ventilated top cover	7001	6220	5048	311	246	162
		IP42 with closed top cover	5030	4665	4117	161	138	108
		IP55	5030	4665	4117	161	138	108
7100	2 x 12 x 30/10	IP31 with ventilated top cover	7204	6400	5194	247	195	128
		IP31 with closed top cover	5175	4800	4237	128	110	85
		IP42 with ventilated top cover	7204	6400	5194	247	195	128
		IP42 with closed top cover	5175	4800	4237	128	110	85
		IP55	5175	4800	4237	128	110	85

Short-circuit strength of the main busbars

I_n	Copper bars/phase	Rated short-time withstand current I_{cw} 1 s	Max. center-to-center distance between busbar supports	Rated short-time withstand current I_{cw} with additional screws as reinforcement (acc. to instructions) 1 s	Max. center-to-center distance between busbar supports	Rated short-time withstand current I_{cw} 3 s	Max. center-to-center distance between busbar supports
A		kA	mm	kA	mm	kA	mm
1000	1 x 30 (1000)	50	350	-	-	-	-
2000	2 x 30 (1250)	80	350	-	-	50	350
2500	3 x 30 (1600)	105	350	-	-	66	350
3200	6 x 30 (2500)	80	425	80	585	66	425
3200	6 x 30 (2500)	90	350	105	350	66	425
4000	12 x 30 (4000)	80	425	80	585	66	425
4000	12 x 30 (4000)	90	350	105	350	66	425
6300	2 x 6 x 30/10	90	350	105	350	66	350
6900	2 x 9 x 30/10	90	350	105	350	66	350
7100	2 x 12 x 30/10	90	350	105	350	66	350

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 25 °C

IP55 degree of protection			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	195	167	147	238	193	164
300	400	2000	281	230	186	302	269	212
300	600	2000	438	356	302	486	384	316
300	800	2000	550	511	384	559	506	407
300	1000	2000	668	587	504	682	591	547
425	300	2000	285	250	212	319	293	270
425	400	2000	360	321	277	413	359	317
425	500	2000	458	386	335	488	438	367
425	600	2000	524	468	384	541	505	427
425	800	2000	636	579	513	661	592	537
425	1000	2000	773	686	610	773	705	614
600	300	2000	389	356	331	486	432	389
600	400	2000	511	441	391	524	502	469
600	500	2000	558	559	465	591	557	528
600	600	2000	620	582	553	660	610	568
600	800	2000	787	707	648	794	748	669
600	1000	2000	887	845	751	901	847	781
650	300	2000	426	388	359	487	488	435
650	400	2000	518	489	429	552	529	508
650	600	2000	651	610	578	702	646	600
800	300	2000	513	511	463	559	542	528
800	400	2000	581	561	571	637	607	581
800	500	2000	664	631	605	735	686	644
800	600	2000	760	707	666	794	774	712
800	800	2000	888	858	792	915	873	837
800	1000	2000	1007	954	915	1042	973	916
850	300	2000	534	524	510	588	570	553
850	400	2000	607	586	571	673	640	611
850	600	2000	800	742	698	821	797	754
850	800	2000	913	882	832	946	902	863
850	1000	2000	1037	981	940	1079	1006	945
1000	300	2000	600	587	579	682	659	637
1000	400	2000	691	664	645	756	752	714
1000	500	2000	805	758	722	831	812	805
1000	600	2000	861	845	800	901	873	848
1000	800	2000	990	954	928	1042	989	944
1000	1000	2000	1130	1065	1018	1197	1110	1038
1100	300	2000	642	627	617	721	721	695
1100	400	2000	753	722	699	799	787	777
1100	600	2000	905	887	876	956	925	898
1100	800	2000	1043	1003	975	1110	1052	1001
1100	1000	2000	1196	1124	1071	1284	1186	1104
1200	300	2000	697	680	668	763	756	751
1200	400	2000	801	792	765	851	837	825
1200	500	2000	877	866	862	934	911	891
1200	600	2000	950	930	919	1015	980	950
1200	800	2000	1099	1054	1023	1184	1118	1062
1200	1000	2000	1266	1187	1127	1380	1268	1176
1350	300	2000	769	768	753	826	819	813
1350	400	2000	859	855	856	926	910	896
1350	600	2000	1020	997	983	1109	1069	1033
1350	800	2000	1187	1136	1099	1306	1228	1161
1350	1000	2000	1382	1288	1218	1543	1407	1296
425	800	2200	681	607	552	705	628	559
600	800	2200	793	742	666	809	768	699
650	800	2200	820	786	703	841	797	746
800	800	2200	913	875	837	951	898	853
850	800	2200	942	902	872	986	931	883
1000	800	2200	1032	984	949	1100	1034	977
1100	800	2200	1094	1041	1003	1183	1108	1043
1200	800	2200	1160	1101	1058	1274	1188	1115
1350	800	2200	1267	1197	1146	1428	1322	1234
425	800	2400	713	634	567	720	664	580
600	800	2400	810	772	693	832	783	739
650	800	2400	841	800	736	868	816	771
800	800	2400	941	893	856	990	926	871
850	800	2400	974	923	885	1032	963	905
1000	800	2400	1078	1017	972	1167	1083	1012
1100	800	2400	1151	1083	1032	1268	1171	1090
1200	800	2400	1229	1153	1096	1379	1267	1174
1350	800	2400	1358	1266	1198	1574	1432	1317

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 25 °C

IP31 degree of protection			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	352	301	265	429	347	296
300	400	2000	505	414	335	543	484	381
300	600	2000	788	642	544	875	690	569
300	800	2000	991	920	691	1006	911	733
300	1000	2000	1203	1057	908	1228	1063	984
425	300	2000	513	450	381	575	527	486
425	400	2000	649	578	499	743	645	571
425	500	2000	825	694	603	879	788	661
425	600	2000	944	842	692	974	908	768
425	800	2000	1145	1042	923	1190	1066	967
425	1000	2000	1391	1234	1099	1392	1270	1106
600	300	2000	700	642	596	875	777	700
600	400	2000	921	794	704	943	904	843
600	500	2000	1004	1007	838	1064	1003	951
600	600	2000	1116	1047	996	1189	1099	1023
600	800	2000	1416	1273	1166	1430	1347	1205
600	1000	2000	1597	1520	1351	1621	1524	1405
800	300	2000	847	843	764	922	895	870
800	400	2000	958	926	942	1051	1002	958
800	500	2000	1096	1040	998	1213	1132	1063
800	600	2000	1254	1166	1100	1311	1277	1175
800	800	2000	1465	1416	1306	1510	1441	1381
800	1000	2000	1661	1574	1510	1719	1606	1511
850	300	2000	882	865	841	970	940	913
850	400	2000	1001	967	942	1111	1057	1009
850	600	2000	1320	1224	1151	1354	1315	1244
850	800	2000	1507	1455	1372	1561	1488	1424
850	1000	2000	1710	1619	1551	1780	1660	1559
1000	300	2000	942	922	909	1071	1034	1001
1000	400	2000	1085	1043	1012	1187	1181	1121
1000	500	2000	1264	1190	1134	1304	1275	1264
1000	600	2000	1352	1326	1255	1414	1370	1332
1000	800	2000	1555	1498	1458	1635	1553	1482
1000	1000	2000	1774	1673	1598	1879	1743	1629
1100	300	2000	1007	984	969	1133	1132	1092
1100	400	2000	1183	1134	1097	1255	1236	1219
1100	600	2000	1421	1392	1376	1502	1453	1410
1100	800	2000	1638	1575	1531	1743	1651	1572
1100	1000	2000	1878	1765	1682	2016	1862	1734
1200	300	2000	1046	1019	1002	1144	1134	1127
1200	400	2000	1202	1188	1147	1276	1256	1238
1200	500	2000	1316	1300	1293	1401	1367	1336
1200	600	2000	1425	1395	1378	1522	1470	1425
1200	800	2000	1648	1582	1535	1776	1677	1593
1200	1000	2000	1900	1780	1691	2069	1902	1764
1350	300	2000	1153	1152	1129	1240	1229	1219
1350	400	2000	1289	1282	1285	1390	1366	1345
1350	600	2000	1530	1495	1475	1664	1603	1549
1350	800	2000	1781	1704	1648	1960	1842	1741
1350	1000	2000	2073	1932	1827	2315	2111	1944
425	800	2200	1226	1093	994	1269	1130	1006
600	800	2200	1427	1336	1199	1456	1382	1258
650	800	2200	1476	1415	1265	1514	1435	1343
800	800	2200	1506	1444	1381	1569	1482	1407
850	800	2200	1554	1488	1439	1627	1536	1457
1000	800	2200	1620	1545	1490	1727	1623	1534
1100	800	2200	1718	1634	1575	1857	1740	1638
1200	800	2200	1740	1652	1587	1911	1782	1673
1350	800	2200	1901	1796	1719	2142	1983	1851
425	800	2400	1283	1141	1021	1296	1195	1044
600	800	2400	1458	1390	1247	1498	1409	1330
650	800	2400	1514	1440	1325	1562	1469	1388
800	800	2400	1553	1473	1412	1634	1528	1437
850	800	2400	1607	1523	1460	1703	1589	1493
1000	800	2400	1692	1597	1526	1832	1700	1589
1100	800	2400	1807	1700	1620	1991	1838	1711
1200	800	2400	1844	1730	1644	2069	1901	1761
1350	800	2400	2037	1899	1797	2361	2148	1976

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 25 °C

IP42 degree of protection			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	283	243	213	345	280	238
300	400	2000	407	334	270	437	390	307
300	600	2000	635	517	438	705	556	458
300	800	2000	798	741	557	811	734	591
300	1000	2000	969	851	731	990	857	793
425	300	2000	413	362	307	463	424	392
425	400	2000	523	466	402	598	520	460
425	500	2000	665	559	486	708	635	533
425	600	2000	760	679	557	784	732	619
425	800	2000	923	839	744	959	859	779
425	1000	2000	1120	994	885	1121	1023	891
600	300	2000	564	517	480	705	626	564
600	400	2000	742	640	567	760	729	679
600	500	2000	809	811	675	857	808	766
600	600	2000	899	843	802	958	885	824
600	800	2000	1141	1025	939	1152	1085	970
600	1000	2000	1287	1225	1089	1306	1228	1132
800	300	2000	719	716	648	783	759	739
800	400	2000	813	786	800	892	850	813
800	500	2000	930	883	847	1029	960	902
800	600	2000	1064	990	933	1112	1084	997
800	800	2000	1243	1201	1108	1281	1223	1171
800	1000	2000	1409	1336	1281	1458	1363	1282
850	300	2000	748	734	714	823	797	775
850	400	2000	850	820	799	943	896	856
850	600	2000	1120	1038	977	1149	1115	1056
850	800	2000	1279	1235	1165	1324	1262	1208
850	1000	2000	1451	1374	1316	1510	1409	1323
1000	300	2000	780	763	753	887	856	829
1000	400	2000	898	864	838	983	978	928
1000	500	2000	1046	985	939	1080	1055	1046
1000	600	2000	1119	1098	1039	1171	1135	1103
1000	800	2000	1287	1240	1207	1354	1286	1227
1000	1000	2000	1469	1385	1323	1556	1443	1349
1100	300	2000	834	815	802	938	937	904
1100	400	2000	979	939	909	1039	1023	1010
1100	600	2000	1176	1153	1139	1243	1203	1167
1100	800	2000	1356	1304	1268	1443	1367	1302
1100	1000	2000	1555	1462	1393	1669	1542	1436
1200	300	2000	906	883	868	991	983	977
1200	400	2000	1042	1030	994	1106	1089	1073
1200	500	2000	1140	1126	1120	1214	1184	1158
1200	600	2000	1235	1209	1194	1319	1274	1235
1200	800	2000	1428	1371	1330	1539	1454	1380
1200	1000	2000	1646	1543	1466	1793	1649	1529
1350	300	2000	999	999	978	1074	1065	1057
1350	400	2000	1117	1111	1113	1204	1184	1165
1350	600	2000	1326	1296	1278	1442	1389	1343
1350	800	2000	1543	1477	1429	1698	1596	1509
1350	1000	2000	1797	1674	1584	2006	1829	1685
425	800	2200	987	880	800	1022	911	811
600	800	2200	1150	1076	966	1173	1114	1014
650	800	2200	1189	1140	1019	1219	1156	1082
800	800	2200	1278	1225	1172	1331	1257	1194
850	800	2200	1319	1263	1221	1380	1303	1236
1000	800	2200	1342	1279	1234	1430	1344	1270
1100	800	2200	1422	1353	1304	1538	1440	1356
1200	800	2200	1508	1431	1375	1656	1544	1450
1350	800	2200	1647	1556	1490	1856	1719	1604
425	800	2400	1034	919	822	1044	963	841
600	800	2400	1175	1119	1005	1206	1135	1072
650	800	2400	1219	1160	1067	1259	1183	1118
800	800	2400	1317	1250	1198	1386	1296	1219
850	800	2400	1364	1292	1239	1445	1348	1267
1000	800	2400	1401	1322	1264	1517	1408	1316
1100	800	2400	1496	1408	1342	1648	1522	1417
1200	800	2400	1598	1499	1425	1793	1647	1526
1350	800	2400	1765	1646	1557	2046	1862	1712

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 25 °C

IP31 degree of prot. - closed			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	273	234	206	334	270	230
300	400	2000	393	322	261	422	376	297
300	600	2000	613	499	423	680	537	442
300	800	2000	770	716	538	783	708	570
300	1000	2000	936	822	706	955	827	765
425	300	2000	399	350	296	447	410	378
425	400	2000	504	450	388	578	502	444
425	500	2000	642	540	469	684	613	514
425	600	2000	734	655	538	757	706	598
425	800	2000	891	810	718	925	829	752
425	1000	2000	1082	960	855	1083	988	860
600	300	2000	545	499	464	680	605	545
600	400	2000	716	618	547	733	703	656
600	500	2000	781	783	652	828	780	739
600	600	2000	868	814	774	925	855	796
600	800	2000	1101	990	907	1112	1048	937
600	1000	2000	1242	1182	1051	1261	1185	1093
800	300	2000	693	690	625	755	732	712
800	400	2000	784	758	771	860	820	784
800	500	2000	897	851	817	992	926	870
800	600	2000	1026	954	900	1072	1045	961
800	800	2000	1199	1158	1069	1235	1179	1130
800	1000	2000	1359	1288	1235	1406	1314	1236
850	300	2000	721	708	688	794	769	747
850	400	2000	819	791	770	909	864	826
850	600	2000	1080	1001	942	1108	1076	1018
850	800	2000	1233	1191	1123	1277	1217	1165
850	1000	2000	1399	1325	1269	1456	1358	1276
1000	300	2000	750	734	724	853	823	797
1000	400	2000	864	830	806	945	940	892
1000	500	2000	1006	947	903	1038	1015	1006
1000	600	2000	1076	1056	999	1126	1091	1060
1000	800	2000	1238	1192	1161	1302	1237	1180
1000	1000	2000	1412	1332	1272	1496	1388	1297
1100	300	2000	802	784	772	902	901	869
1100	400	2000	942	903	874	999	984	971
1100	600	2000	1131	1109	1096	1196	1157	1123
1100	800	2000	1304	1254	1219	1388	1315	1252
1100	1000	2000	1495	1405	1339	1605	1482	1380
1200	300	2000	871	849	835	953	945	939
1200	400	2000	1002	990	956	1064	1047	1032
1200	500	2000	1097	1083	1077	1168	1139	1113
1200	600	2000	1187	1163	1148	1269	1225	1187
1200	800	2000	1373	1318	1279	1480	1398	1327
1200	1000	2000	1583	1483	1409	1724	1585	1470
1350	300	2000	961	960	941	1033	1024	1016
1350	400	2000	1074	1068	1070	1158	1138	1121
1350	600	2000	1275	1246	1229	1387	1336	1291
1350	800	2000	1484	1420	1374	1633	1535	1451
1350	1000	2000	1727	1610	1523	1929	1759	1620
425	800	2200	953	850	773	987	879	783
600	800	2200	1110	1039	932	1133	1075	979
650	800	2200	1148	1100	984	1177	1116	1044
800	800	2200	1278	1225	1172	1331	1257	1194
850	800	2200	1319	1263	1221	1380	1303	1236
1000	800	2200	1445	1378	1329	1540	1448	1368
1100	800	2200	1532	1457	1404	1656	1551	1460
1200	800	2200	1624	1541	1481	1784	1663	1561
1350	800	2200	1774	1676	1604	1999	1851	1728
425	800	2400	998	888	794	1008	930	812
600	800	2400	1134	1081	970	1165	1096	1035
650	800	2400	1177	1120	1030	1215	1142	1079
800	800	2400	1317	1250	1198	1386	1296	1219
850	800	2400	1364	1292	1239	1445	1348	1267
1000	800	2400	1509	1424	1361	1634	1516	1417
1100	800	2400	1611	1516	1445	1775	1639	1526
1200	800	2400	1721	1614	1534	1931	1774	1644
1350	800	2400	1901	1772	1677	2204	2005	1844

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 25 °C

IP42 degree of prot. - closed			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	264	226	199	322	260	222
300	400	2000	379	311	251	407	363	286
300	600	2000	591	481	408	656	518	427
300	800	2000	743	690	519	755	683	550
300	1000	2000	902	793	681	921	798	738
425	300	2000	385	337	286	431	395	365
425	400	2000	486	434	375	557	484	428
425	500	2000	619	520	452	659	591	496
425	600	2000	708	632	519	730	681	576
425	800	2000	859	781	692	892	800	725
425	1000	2000	1043	926	824	1044	952	829
600	300	2000	525	481	447	656	583	525
600	400	2000	691	596	528	707	678	633
600	500	2000	753	755	628	798	753	713
600	600	2000	837	785	747	892	824	767
600	800	2000	1062	954	874	1072	1010	904
600	1000	2000	1198	1140	1013	1216	1143	1054
800	300	2000	667	664	602	727	705	686
800	400	2000	755	730	743	828	789	755
800	500	2000	864	820	787	955	892	837
800	600	2000	988	919	866	1033	1006	926
800	800	2000	1154	1115	1029	1190	1135	1088
800	1000	2000	1308	1240	1190	1354	1265	1190
850	300	2000	695	682	663	764	740	719
850	400	2000	789	762	742	875	832	795
850	600	2000	1040	964	907	1067	1036	980
850	800	2000	1187	1146	1081	1230	1172	1122
850	1000	2000	1348	1276	1222	1402	1308	1229
1000	300	2000	720	704	695	819	790	765
1000	400	2000	829	797	774	907	903	857
1000	500	2000	966	909	867	997	974	966
1000	600	2000	1033	1013	959	1081	1047	1018
1000	800	2000	1188	1145	1114	1250	1187	1133
1000	1000	2000	1356	1278	1221	1436	1332	1245
1100	300	2000	770	752	741	866	865	835
1100	400	2000	904	866	839	959	945	932
1100	600	2000	1086	1064	1052	1148	1110	1078
1100	800	2000	1252	1204	1170	1332	1262	1202
1100	1000	2000	1435	1349	1285	1541	1423	1325
1200	300	2000	836	815	802	915	908	901
1200	400	2000	962	951	917	1021	1005	991
1200	500	2000	1053	1040	1034	1121	1093	1069
1200	600	2000	1140	1116	1102	1218	1176	1140
1200	800	2000	1318	1265	1228	1421	1342	1274
1200	1000	2000	1520	1424	1353	1655	1522	1411
1350	300	2000	923	922	903	992	983	975
1350	400	2000	1031	1025	1028	1112	1093	1076
1350	600	2000	1224	1196	1180	1331	1282	1239
1350	800	2000	1425	1363	1319	1568	1473	1393
1350	1000	2000	1658	1546	1462	1852	1689	1555
425	800	2200	919	819	745	952	848	755
600	800	2200	1071	1002	899	1092	1037	944
650	800	2200	1107	1061	949	1135	1076	1007
800	800	2200	1233	1181	1130	1284	1212	1152
850	800	2200	1272	1218	1177	1331	1257	1192
1000	800	2200	1393	1328	1281	1485	1396	1319
1100	800	2200	1477	1405	1354	1597	1496	1408
1200	800	2200	1566	1486	1428	1720	1604	1505
1350	800	2200	1710	1616	1547	1928	1785	1666
425	800	2400	963	856	765	972	896	783
600	800	2400	1094	1042	936	1123	1057	998
650	800	2400	1135	1080	994	1172	1102	1041
800	800	2400	1270	1206	1156	1337	1250	1176
850	800	2400	1315	1246	1195	1393	1300	1222
1000	800	2400	1455	1373	1312	1575	1462	1366
1100	800	2400	1554	1462	1393	1712	1581	1472
1200	800	2400	1659	1557	1480	1862	1710	1585
1350	800	2400	1833	1709	1617	2125	1933	1778

Loss factors for horizontal separation panels:

Number of internalal horizontal separation panels	0	1	2	3
Loss factor of P_v	1	0.94	0.84	0,72

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 25 °C

IP55 degree of protection			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	143	122	107	174	141	120
300	400	2000	205	168	136	220	196	154
300	600	2000	320	260	221	355	280	231
300	800	2000	402	373	281	408	370	298
300	1000	2000	489	429	369	499	432	399
425	300	2000	208	182	154	233	214	197
425	400	2000	263	235	202	301	262	232
425	500	2000	335	282	245	357	320	269
425	600	2000	383	342	281	395	369	312
425	800	2000	465	423	375	483	433	393
425	1000	2000	565	501	446	565	516	449
600	300	2000	284	260	242	355	316	284
600	400	2000	374	322	285	383	367	342
600	500	2000	408	409	340	432	408	386
600	600	2000	453	425	404	483	446	415
600	800	2000	575	517	473	581	547	489
600	1000	2000	649	618	549	659	619	571
650	300	2000	312	283	262	356	357	318
650	400	2000	379	357	313	404	387	372
650	600	2000	476	446	423	513	473	439
800	300	2000	375	374	338	409	397	386
800	400	2000	424	410	398	466	444	424
800	500	2000	486	461	442	537	501	471
800	600	2000	556	517	487	581	566	521
800	800	2000	649	627	579	669	638	612
800	1000	2000	736	697	669	762	712	670
850	300	2000	391	383	373	430	416	404
850	400	2000	444	428	417	492	468	447
850	600	2000	585	542	510	600	582	551
850	800	2000	668	645	608	691	659	631
850	1000	2000	758	717	688	789	736	691
1000	300	2000	438	429	423	499	481	466
1000	400	2000	505	486	471	553	550	522
1000	500	2000	589	554	528	607	594	589
1000	600	2000	629	617	584	658	638	620
1000	800	2000	724	697	679	762	723	690
1000	1000	2000	826	779	744	875	812	759
1100	300	2000	469	458	451	527	527	509
1100	400	2000	551	528	511	584	576	568
1100	600	2000	662	648	641	699	676	656
1100	800	2000	763	733	713	812	769	732
1100	1000	2000	874	822	783	939	867	807
1200	300	2000	510	497	488	557	553	549
1200	400	2000	586	580	559	622	612	604
1200	500	2000	641	634	630	683	666	651
1200	600	2000	694	680	672	742	717	694
1200	800	2000	803	771	748	866	818	776
1200	1000	2000	926	868	824	1009	927	860
1350	300	2000	562	562	550	604	599	594
1350	400	2000	628	625	626	677	666	655
1350	600	2000	746	729	719	811	781	755
1350	800	2000	868	830	803	955	898	849
1350	1000	2000	1010	942	891	1129	1029	948
425	800	2200	498	444	404	516	459	409
600	800	2200	580	543	487	592	562	511
650	800	2200	600	575	514	615	583	546
800	800	2200	668	640	613	695	657	624
850	800	2200	689	660	638	722	681	646
1000	800	2200	755	720	695	805	756	715
1100	800	2200	800	762	733	866	810	763
1200	800	2200	849	806	774	932	869	816
1350	800	2200	927	876	838	1044	967	903
425	800	2400	521	464	414	526	485	424
600	800	2400	593	565	507	609	573	541
650	800	2400	615	585	538	635	597	564
800	800	2400	688	653	626	724	677	637
850	800	2400	712	675	647	754	704	662
1000	800	2400	788	744	711	854	792	740
1100	800	2400	842	792	755	927	856	797
1200	800	2400	899	843	801	1.009	927	859
1350	800	2400	993	926	876	1.151	1.047	963

xEnergy Main Switchboards

Power Loss

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 35 °C

IP31 degree of protection

Max. power loss P_v in Watt

Dimensions in mm			For wall-mounting			Stand-alone		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	257	220	193	313	254	216
300	400	2000	369	302	245	396	353	277
300	600	2000	576	468	398	639	504	416
300	800	2000	724	671	506	734	666	536
300	1000	2000	880	772	664	898	778	718
425	300	2000	374	328	277	419	385	355
425	400	2000	473	423	364	542	472	418
425	500	2000	603	508	441	643	576	484
425	600	2000	689	616	506	711	664	562
425	800	2000	837	761	675	869	779	707
425	1000	2000	1017	902	803	1017	929	808
600	300	2000	511	468	436	639	569	511
600	400	2000	673	580	513	689	661	616
600	500	2000	734	736	612	778	734	695
600	600	2000	815	765	727	869	803	747
600	800	2000	1035	931	851	1046	985	880
600	1000	2000	1168	1112	988	1186	1114	1028
800	300	2000	619	617	558	675	655	637
800	400	2000	700	677	657	769	733	700
800	500	2000	802	761	729	886	827	777
800	600	2000	917	853	804	959	934	860
800	800	2000	1071	1035	955	1104	1053	1010
800	1000	2000	1214	1150	1104	1257	1175	1106
850	300	2000	645	632	615	710	686	667
850	400	2000	733	706	688	812	772	738
850	600	2000	965	894	842	990	960	909
850	800	2000	1102	1064	1003	1140	1087	1041
850	1000	2000	1251	1183	1135	1302	1214	1140
1000	300	2000	688	674	664	783	755	732
1000	400	2000	793	763	739	868	864	820
1000	500	2000	925	870	829	953	933	925
1000	600	2000	988	969	917	1033	1002	973
1000	800	2000	1137	1094	1066	1196	1135	1083
1000	1000	2000	1297	1223	1168	1374	1275	1192
1100	300	2000	736	719	708	827	827	799
1100	400	2000	865	829	802	917	904	892
1100	600	2000	1039	1017	1006	1097	1061	1030
1100	800	2000	1198	1151	1119	1275	1207	1149
1100	1000	2000	1372	1291	1229	1474	1361	1267
1200	300	2000	765	746	732	836	830	824
1200	400	2000	879	870	839	933	918	906
1200	500	2000	962	951	945	1025	999	977
1200	600	2000	1041	1020	1008	1113	1076	1041
1200	800	2000	1205	1157	1122	1299	1227	1164
1200	1000	2000	1389	1302	1236	1514	1391	1290
1350	300	2000	843	843	825	906	899	891
1350	400	2000	942	938	939	1016	999	983
1350	600	2000	1119	1094	1079	1217	1172	1133
1350	800	2000	1302	1245	1205	1433	1347	1274
1350	1000	2000	1515	1413	1337	1694	1544	1422
425	800	2200	896	799	727	929	826	736
600	800	2200	1044	977	877	1066	1012	920
650	800	2200	1080	1035	925	1107	1049	983
800	800	2200	1102	1056	1011	1147	1084	1030
850	800	2200	1137	1089	1053	1191	1124	1066
1000	800	2200	1185	1130	1091	1264	1187	1123
1100	800	2200	1256	1196	1151	1360	1272	1198
1200	800	2200	1274	1209	1161	1398	1304	1224
1350	800	2200	1391	1314	1257	1566	1451	1355
425	800	2400	938	835	745	947	873	763
600	800	2400	1067	1017	913	1096	1031	974
650	800	2400	1107	1053	968	1143	1075	1015
800	800	2400	1135	1077	1033	1195	1117	1051
850	800	2400	1175	1114	1068	1244	1162	1092
1000	800	2400	1237	1168	1116	1341	1243	1162
1100	800	2400	1322	1243	1185	1455	1344	1251
1200	800	2400	1349	1265	1202	1514	1391	1289
1350	800	2400	1490	1389	1314	1727	1571	1445

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 35 °C

IP42 degree of protection			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	207	177	155	252	204	174
300	400	2000	297	244	197	319	284	223
300	600	2000	464	377	320	515	406	335
300	800	2000	583	541	407	592	537	432
300	1000	2000	709	622	535	724	626	579
425	300	2000	302	264	223	338	310	286
425	400	2000	381	341	293	436	380	336
425	500	2000	486	409	355	518	464	390
425	600	2000	555	496	407	573	535	452
425	800	2000	674	613	544	700	628	570
425	1000	2000	819	726	647	819	748	651
600	300	2000	412	377	351	515	458	412
600	400	2000	542	467	413	555	532	496
600	500	2000	592	593	493	626	592	560
600	600	2000	657	616	586	700	647	602
600	800	2000	834	750	686	842	793	709
600	1000	2000	941	896	796	956	898	828
800	300	2000	525	524	473	573	556	540
800	400	2000	594	574	557	652	622	594
800	500	2000	680	645	619	752	701	659
800	600	2000	778	724	682	813	792	729
800	800	2000	909	878	811	937	893	857
800	1000	2000	1030	976	937	1067	997	938
850	300	2000	547	536	522	602	582	566
850	400	2000	622	599	584	689	655	626
850	600	2000	819	759	714	840	815	771
850	800	2000	935	903	851	967	923	883
850	1000	2000	1061	1004	963	1105	1030	967
1000	300	2000	569	558	550	649	625	606
1000	400	2000	657	632	612	719	715	679
1000	500	2000	766	720	686	789	772	766
1000	600	2000	818	802	759	855	829	806
1000	800	2000	941	906	883	991	940	897
1000	1000	2000	1074	1013	967	1138	1056	987
1100	300	2000	610	595	586	685	685	662
1100	400	2000	716	686	664	759	749	738
1100	600	2000	861	842	833	909	879	853
1100	800	2000	992	953	927	1056	1000	952
1100	1000	2000	1136	1069	1018	1221	1127	1049
1200	300	2000	663	646	634	724	719	714
1200	400	2000	762	754	727	809	796	785
1200	500	2000	833	824	819	888	866	846
1200	600	2000	902	884	874	965	932	902
1200	800	2000	1044	1002	972	1126	1063	1009
1200	1000	2000	1204	1128	1071	1312	1205	1118
1350	300	2000	731	731	715	785	779	772
1350	400	2000	816	813	814	880	866	852
1350	600	2000	970	948	935	1054	1015	982
1350	800	2000	1128	1079	1044	1242	1167	1104
1350	1000	2000	1313	1225	1158	1468	1338	1232
425	800	2200	722	644	586	748	666	593
600	800	2200	841	787	706	858	815	741
650	800	2200	870	834	745	892	845	792
800	800	2200	935	896	858	973	920	874
850	800	2200	965	924	893	1011	953	904
1000	800	2200	982	936	904	1047	983	930
1100	800	2200	1040	991	953	1126	1053	992
1200	800	2200	1104	1048	1006	1212	1130	1061
1350	800	2200	1205	1139	1089	1357	1257	1174
425	800	2400	755	673	600	763	703	615
600	800	2400	860	819	735	883	831	784
650	800	2400	892	848	780	921	866	818
800	800	2400	963	914	876	1014	948	892
850	800	2400	997	945	906	1056	986	927
1000	800	2400	1024	967	924	1110	1030	962
1100	800	2400	1095	1030	982	1205	1113	1036
1200	800	2400	1169	1096	1041	1312	1205	1117
1350	800	2400	1291	1204	1139	1496	1361	1252

xEnergy Main Switchboards

Power Loss

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 35 °C

IP31 degree of prot. - closed Max. power loss P_v in Watt

Dimensions in mm			For wall-mounting			Stand-alone		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	200	171	150	244	197	168
300	400	2000	287	235	190	308	274	216
300	600	2000	448	364	309	497	392	323
300	800	2000	563	522	393	571	518	417
300	1000	2000	685	601	517	699	605	559
425	300	2000	291	255	216	326	300	276
425	400	2000	368	329	283	421	367	325
425	500	2000	469	395	343	500	448	377
425	600	2000	536	479	393	553	517	437
425	800	2000	651	592	525	676	606	550
425	1000	2000	791	701	624	791	722	629
600	300	2000	398	364	339	497	442	398
600	400	2000	524	451	399	536	514	479
600	500	2000	571	573	476	605	571	540
600	600	2000	634	595	566	676	624	581
600	800	2000	805	724	662	813	766	685
600	1000	2000	909	865	769	923	867	799
800	300	2000	506	505	456	552	536	521
800	400	2000	572	554	537	629	599	572
800	500	2000	656	622	597	725	676	636
800	600	2000	751	698	657	784	764	703
800	800	2000	876	846	782	903	861	826
800	1000	2000	994	941	903	1029	961	905
850	300	2000	528	517	504	581	562	545
850	400	2000	599	578	563	664	632	603
850	600	2000	790	732	689	810	786	744
850	800	2000	902	871	821	933	890	852
850	1000	2000	1023	968	929	1065	994	933
1000	300	2000	548	536	529	624	601	583
1000	400	2000	631	608	589	691	688	653
1000	500	2000	736	693	660	759	743	736
1000	600	2000	786	771	730	823	798	775
1000	800	2000	905	871	849	953	904	863
1000	1000	2000	1033	974	930	1094	1015	949
1100	300	2000	586	573	564	659	659	636
1100	400	2000	689	660	639	730	720	710
1100	600	2000	828	810	801	874	845	820
1100	800	2000	954	916	891	1015	961	915
1100	1000	2000	1093	1028	979	1174	1084	1009
1200	300	2000	638	621	610	696	691	686
1200	400	2000	733	725	699	778	765	755
1200	500	2000	801	793	788	854	833	814
1200	600	2000	868	850	840	928	896	868
1200	800	2000	1004	964	935	1083	1023	970
1200	1000	2000	1158	1085	1030	1261	1159	1075
1350	300	2000	703	703	688	755	749	743
1350	400	2000	785	781	783	846	833	819
1350	600	2000	933	911	899	1014	976	944
1350	800	2000	1085	1038	1004	1194	1123	1061
1350	1000	2000	1263	1178	1114	1411	1286	1185
425	800	2200	697	622	566	722	643	573
600	800	2200	812	760	682	829	787	715
650	800	2200	840	805	720	861	816	764
800	800	2200	935	896	858	973	920	874
850	800	2200	965	924	893	1011	953	904
1000	800	2200	1057	1008	973	1127	1058	1001
1100	800	2200	1120	1067	1026	1212	1134	1068
1200	800	2200	1189	1128	1084	1305	1217	1142
1350	800	2200	1298	1226	1173	1462	1354	1264
425	800	2400	729	650	580	736	679	594
600	800	2400	830	791	710	853	802	757
650	800	2400	861	819	753	889	836	790
800	800	2400	963	914	876	1014	948	892
850	800	2400	997	945	906	1056	986	927
1000	800	2400	1103	1042	995	1196	1109	1036
1100	800	2400	1179	1109	1057	1298	1198	1116
1200	800	2400	1259	1180	1121	1413	1298	1203
1350	800	2400	1390	1296	1226	1611	1466	1348

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 35 °C

IP42 degree of prot. - closed			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	193	165	144	235	190	162
300	400	2000	277	227	184	297	265	208
300	600	2000	432	351	298	479	378	312
300	800	2000	543	504	379	551	500	402
300	1000	2000	660	579	498	674	583	539
425	300	2000	281	246	208	315	289	266
425	400	2000	355	317	273	406	354	313
425	500	2000	452	381	331	482	432	363
425	600	2000	517	462	379	533	498	421
425	800	2000	628	571	506	652	585	531
425	1000	2000	763	676	602	763	697	606
600	300	2000	383	351	327	479	427	383
600	400	2000	505	435	385	517	495	462
600	500	2000	551	552	459	583	551	521
600	600	2000	612	574	545	652	602	560
600	800	2000	776	698	639	784	738	660
600	1000	2000	876	834	741	890	836	771
800	300	2000	488	486	439	532	516	502
800	400	2000	551	533	517	606	577	551
800	500	2000	632	599	575	698	651	612
800	600	2000	723	672	633	755	736	677
800	800	2000	844	815	753	870	829	796
800	1000	2000	957	906	870	991	926	871
850	300	2000	508	498	485	559	541	525
850	400	2000	577	556	542	640	608	581
850	600	2000	761	705	663	780	757	716
850	800	2000	868	839	790	898	857	820
850	1000	2000	985	932	894	1026	957	898
1000	300	2000	526	515	508	599	577	559
1000	400	2000	606	583	565	664	660	626
1000	500	2000	707	665	634	728	713	707
1000	600	2000	755	740	701	790	766	744
1000	800	2000	869	836	815	914	868	828
1000	1000	2000	991	935	893	1050	974	911
1100	300	2000	563	550	541	632	632	611
1100	400	2000	661	634	613	701	691	682
1100	600	2000	794	778	769	839	811	787
1100	800	2000	916	880	856	974	923	878
1100	1000	2000	1049	986	940	1127	1040	968
1200	300	2000	612	596	586	668	664	659
1200	400	2000	703	696	671	746	734	725
1200	500	2000	769	761	756	820	799	781
1200	600	2000	833	816	806	890	860	833
1200	800	2000	964	925	898	1039	982	931
1200	1000	2000	1111	1042	989	1211	1112	1032
1350	300	2000	674	674	660	725	719	713
1350	400	2000	754	750	751	812	799	786
1350	600	2000	895	875	863	973	937	906
1350	800	2000	1042	996	964	1146	1078	1019
1350	1000	2000	1212	1130	1069	1355	1235	1138
425	800	2200	672	599	545	697	620	552
600	800	2200	783	733	657	799	759	690
650	800	2200	810	776	694	830	787	737
800	800	2200	902	864	828	938	887	842
850	800	2200	930	891	861	975	919	872
1000	800	2200	1019	972	938	1087	1021	965
1100	800	2200	1080	1029	990	1169	1094	1030
1200	800	2200	1146	1088	1045	1258	1173	1102
1350	800	2200	1251	1183	1131	1409	1305	1219
425	800	2400	703	626	559	710	655	572
600	800	2400	801	763	684	822	774	730
650	800	2400	830	790	726	857	806	761
800	800	2400	929	882	845	977	914	860
850	800	2400	961	911	873	1018	950	894
1000	800	2400	1064	1004	960	1153	1069	999
1100	800	2400	1137	1069	1019	1251	1156	1076
1200	800	2400	1214	1138	1081	1362	1251	1160
1350	800	2400	1341	1250	1183	1554	1413	1300

Loss factors for horizontal separation panels:

Number of internalal horizontal separation panels	0	1	2	3
Loss factor of P_v	1	0.94	0.84	0,72

xEnergy Main Switchboards

Power Loss

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 50 °C

IP55 degree of protection			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	71	61	54	87	70	60
300	400	2000	102	84	67	110	98	77
300	600	2000	159	130	110	177	139	115
300	800	2000	200	186	140	203	184	148
300	1000	2000	243	214	184	248	215	199
425	300	2000	104	91	77	117	107	99
425	400	2000	131	117	101	150	130	115
425	500	2000	167	141	122	178	160	134
425	600	2000	191	170	140	197	184	155
425	800	2000	232	211	187	241	216	195
425	1000	2000	281	250	222	282	257	224
600	300	2000	142	130	121	177	158	142
600	400	2000	186	160	142	191	183	170
600	500	2000	204	204	170	216	203	193
600	600	2000	226	212	201	240	222	207
600	800	2000	286	257	236	289	272	244
600	1000	2000	323	308	273	328	308	284
650	300	2000	155	141	130	177	178	158
650	400	2000	189	178	156	201	193	185
650	600	2000	237	222	211	256	235	219
800	300	2000	187	186	169	204	198	192
800	400	2000	211	204	208	232	221	211
800	500	2000	242	230	221	268	250	235
800	600	2000	277	257	243	289	282	259
800	800	2000	323	312	288	333	318	305
800	1000	2000	367	347	333	379	355	333
850	300	2000	195	191	186	214	208	202
850	400	2000	221	213	208	254	233	223
850	600	2000	291	270	254	299	290	274
850	800	2000	333	321	303	344	328	314
850	1000	2000	378	357	342	393	367	344
1000	300	2000	219	214	211	249	240	232
1000	400	2000	252	242	235	275	274	260
1000	500	2000	294	276	263	303	296	294
1000	600	2000	313	308	291	328	318	309
1000	800	2000	361	347	338	379	360	344
1000	1000	2000	412	388	371	436	404	378
1100	300	2000	234	229	225	263	263	254
1100	400	2000	275	263	255	292	287	283
1100	600	2000	330	323	319	348	337	327
1100	800	2000	380	365	355	404	383	365
1100	1000	2000	436	410	390	468	432	402
1200	300	2000	254	248	244	278	276	274
1200	400	2000	292	289	279	310	305	301
1200	500	2000	320	316	314	341	332	325
1200	600	2000	346	339	335	370	357	346
1200	800	2000	400	384	373	431	407	387
1200	1000	2000	461	432	411	503	462	428
1350	300	2000	280	280	274	301	299	296
1350	400	2000	313	312	312	338	332	327
1350	600	2000	372	363	358	404	389	376
1350	800	2000	433	414	400	476	447	423
1350	1000	2000	504	469	444	562	513	472
425	800	2200	248	221	201	257	229	204
600	800	2200	289	271	243	295	280	255
650	800	2200	299	287	256	307	291	272
800	800	2200	333	319	305	347	328	311
850	800	2200	344	329	318	360	340	322
1000	800	2200	376	359	346	401	377	356
1100	800	2200	399	380	366	432	404	381
1200	800	2200	423	402	386	465	433	407
1350	800	2200	462	437	418	521	482	450
425	800	2400	260	231	207	263	242	211
600	800	2400	295	281	253	304	286	270
650	800	2400	307	292	268	317	298	281
800	800	2400	343	326	312	361	338	318
850	800	2400	355	337	323	376	351	330
1000	800	2400	393	371	355	426	395	369
1100	800	2400	420	395	377	462	427	398
1200	800	2400	448	420	400	503	462	428
1350	800	2400	495	462	437	574	522	480

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 50 °C

IP31 degree of protection			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	128	110	97	156	127	108
300	400	2000	184	151	121	198	176	139
300	600	2000	286	234	198	319	250	207
300	800	2000	360	335	252	365	331	266
300	1000	2000	437	385	331	446	387	358
425	300	2000	187	164	139	210	192	177
425	400	2000	236	211	182	270	234	207
425	500	2000	301	253	220	321	288	241
425	600	2000	344	306	252	355	331	279
425	800	2000	418	380	337	434	389	351
425	1000	2000	506	450	400	508	463	403
600	300	2000	255	234	218	319	284	255
600	400	2000	335	288	256	344	329	306
600	500	2000	366	367	306	388	366	347
600	600	2000	407	382	362	432	400	373
600	800	2000	515	463	425	520	490	439
600	1000	2000	581	554	491	590	554	511
800	300	2000	309	308	279	336	326	317
800	400	2000	348	337	343	383	365	348
800	500	2000	400	379	364	442	413	388
800	600	2000	457	424	401	477	465	427
800	800	2000	533	515	475	549	525	503
800	1000	2000	606	573	549	625	586	549
850	300	2000	322	316	307	354	343	333
850	400	2000	365	351	343	419	384	368
850	600	2000	480	446	419	493	479	452
850	800	2000	549	530	500	568	541	518
850	1000	2000	624	589	564	648	606	568
1000	300	2000	343	336	332	391	377	365
1000	400	2000	396	380	369	432	430	408
1000	500	2000	461	434	414	476	465	461
1000	600	2000	491	484	457	515	499	485
1000	800	2000	567	545	531	595	565	540
1000	1000	2000	647	609	582	685	634	593
1100	300	2000	367	359	353	413	413	398
1100	400	2000	431	413	400	458	451	445
1100	600	2000	518	507	501	546	529	513
1100	800	2000	597	573	557	634	601	573
1100	1000	2000	685	644	612	735	678	631
1200	300	2000	381	372	365	417	414	411
1200	400	2000	438	433	418	466	458	452
1200	500	2000	480	474	471	511	498	487
1200	600	2000	519	509	503	555	536	519
1200	800	2000	600	576	560	647	611	581
1200	1000	2000	692	648	617	755	693	642
1350	300	2000	421	420	412	452	448	445
1350	400	2000	470	468	468	507	498	490
1350	600	2000	558	545	537	606	584	564
1350	800	2000	650	621	600	714	671	635
1350	1000	2000	756	704	666	843	770	708
425	800	2200	446	398	362	463	412	367
600	800	2200	520	488	437	531	504	459
650	800	2200	538	517	461	553	524	490
800	800	2200	549	526	503	573	541	513
850	800	2200	568	543	525	594	561	531
1000	800	2200	590	564	543	630	592	559
1100	800	2200	626	597	575	678	634	598
1200	800	2200	635	603	579	698	650	611
1350	800	2200	693	656	627	782	723	675
425	800	2400	468	416	373	473	436	380
600	800	2400	531	506	455	547	515	486
650	800	2400	553	526	482	571	536	506
800	800	2400	566	538	515	596	558	525
850	800	2400	586	556	533	620	579	545
1000	800	2400	617	582	557	669	620	579
1100	800	2400	659	620	592	725	670	625
1200	800	2400	672	630	600	755	693	642
1350	800	2400	743	693	656	861	783	720

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 50 °C

IP42 degree of protection			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	103	88	78	126	102	87
300	400	2000	148	122	97	160	142	112
300	600	2000	231	189	160	257	202	167
300	800	2000	290	270	203	294	267	215
300	1000	2000	352	310	267	360	312	289
425	300	2000	151	132	112	169	155	143
425	400	2000	190	170	146	218	189	167
425	500	2000	242	204	177	258	232	194
425	600	2000	277	247	203	286	267	225
425	800	2000	336	306	271	349	313	283
425	1000	2000	407	363	322	409	373	325
600	300	2000	206	188	175	257	228	206
600	400	2000	270	232	206	277	265	247
600	500	2000	295	296	246	313	295	279
600	600	2000	328	307	291	348	322	300
600	800	2000	415	373	342	419	394	354
600	1000	2000	468	447	396	476	447	412
800	300	2000	262	261	236	285	277	269
800	400	2000	295	286	291	325	309	295
800	500	2000	339	322	309	375	350	329
800	600	2000	388	360	340	405	395	363
800	800	2000	452	437	403	466	445	427
800	1000	2000	514	486	466	531	497	466
850	300	2000	273	268	260	300	291	283
850	400	2000	309	298	291	356	326	312
850	600	2000	407	378	356	419	406	384
850	800	2000	466	449	424	482	459	440
850	1000	2000	529	500	479	550	514	482
1000	300	2000	284	278	275	324	312	302
1000	400	2000	328	315	306	358	356	338
1000	500	2000	382	359	343	394	385	382
1000	600	2000	407	400	378	426	413	402
1000	800	2000	469	451	439	493	468	447
1000	1000	2000	536	504	482	567	525	491
1100	300	2000	304	297	293	342	342	330
1100	400	2000	357	342	331	379	373	368
1100	600	2000	429	420	415	452	438	425
1100	800	2000	494	475	462	525	498	475
1100	1000	2000	567	533	507	608	562	523
1200	300	2000	330	322	317	362	359	356
1200	400	2000	380	376	362	403	397	391
1200	500	2000	416	411	409	443	432	422
1200	600	2000	450	441	436	481	464	450
1200	800	2000	520	499	485	560	529	503
1200	1000	2000	599	562	534	654	601	556
1350	300	2000	364	364	357	392	388	385
1350	400	2000	407	405	406	439	432	425
1350	600	2000	484	472	465	525	506	489
1350	800	2000	563	538	520	619	581	550
1350	1000	2000	655	610	577	731	667	614
425	800	2200	360	320	291	373	332	296
600	800	2200	419	393	352	428	406	370
650	800	2200	434	416	371	445	422	394
800	800	2200	466	447	427	486	459	435
850	800	2200	482	461	445	504	476	451
1000	800	2200	489	467	450	521	490	463
1100	800	2200	519	494	476	562	525	495
1200	800	2200	550	523	502	605	563	529
1350	800	2200	601	568	543	677	627	585
425	800	2400	377	335	300	381	351	306
600	800	2400	428	407	367	441	415	392
650	800	2400	445	423	389	460	432	407
800	800	2400	480	456	437	505	473	445
850	800	2400	497	472	452	526	491	462
1000	800	2400	511	482	462	554	514	480
1100	800	2400	546	514	490	601	555	517
1200	800	2400	582	546	520	654	601	556
1350	800	2400	644	601	568	746	679	624

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 50 °C

IP31 degree of prot. - closed			Max. power loss P_v in Watt					
Dimensions in mm			**For wall-mounting**			**Stand-alone**		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	100	85	75	122	99	84
300	400	2000	143	118	94	154	137	108
300	600	2000	223	182	154	248	195	161
300	800	2000	280	260	196	284	258	207
300	1000	2000	340	300	258	347	301	279
425	300	2000	146	128	108	163	149	138
425	400	2000	183	164	141	210	182	161
425	500	2000	234	197	171	249	224	188
425	600	2000	267	238	196	276	258	217
425	800	2000	325	295	262	337	302	273
425	1000	2000	393	350	311	395	360	314
600	300	2000	199	182	169	248	221	199
600	400	2000	260	224	199	267	256	238
600	500	2000	285	286	238	302	285	270
600	600	2000	316	297	281	336	311	290
600	800	2000	400	360	330	405	381	342
600	1000	2000	452	431	382	459	431	398
800	300	2000	253	252	228	275	267	260
800	400	2000	285	275	281	313	298	285
800	500	2000	327	310	298	362	338	317
800	600	2000	374	347	328	390	381	350
800	800	2000	436	421	389	450	429	412
800	1000	2000	495	468	450	512	479	450
850	300	2000	263	258	251	289	280	272
850	400	2000	298	288	281	343	315	301
850	600	2000	393	365	343	404	392	370
850	800	2000	450	433	409	464	443	424
850	1000	2000	510	482	462	531	495	464
1000	300	2000	273	268	264	311	300	291
1000	400	2000	315	303	294	344	343	325
1000	500	2000	367	346	329	379	370	367
1000	600	2000	391	385	364	410	398	386
1000	800	2000	451	434	423	474	450	430
1000	1000	2000	515	485	464	545	505	473
1100	300	2000	293	286	281	329	329	317
1100	400	2000	343	329	319	364	359	354
1100	600	2000	413	404	399	435	421	409
1100	800	2000	475	456	444	505	479	456
1100	1000	2000	545	513	488	585	540	503
1200	300	2000	318	310	305	348	345	342
1200	400	2000	365	361	349	388	382	376
1200	500	2000	400	395	393	426	415	406
1200	600	2000	433	424	419	463	446	433
1200	800	2000	500	480	466	539	509	484
1200	1000	2000	576	540	514	629	578	535
1350	300	2000	350	350	343	377	373	371
1350	400	2000	392	390	390	422	415	409
1350	600	2000	465	454	448	505	486	470
1350	800	2000	541	518	500	595	559	529
1350	1000	2000	630	586	555	703	641	590
425	800	2200	347	309	281	360	321	286
600	800	2200	405	379	340	413	392	357
650	800	2200	419	402	358	430	407	381
800	800	2200	466	447	427	486	459	435
850	800	2200	482	461	445	504	476	451
1000	800	2200	526	503	484	561	528	498
1100	800	2200	559	532	512	605	566	533
1200	800	2200	592	563	540	651	606	570
1350	800	2200	647	612	585	729	675	630
425	800	2400	364	323	290	368	339	295
600	800	2400	413	393	354	426	400	378
650	800	2400	430	409	375	444	417	393
800	800	2400	480	456	437	505	473	445
850	800	2400	497	472	452	526	491	462
1000	800	2400	550	519	497	596	553	517
1100	800	2400	588	553	528	647	598	557
1200	800	2400	627	588	560	704	647	599
1350	800	2400	693	647	612	804	731	672

xEnergy Main Switchboards

Power Loss

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890
No horizontal partitions
Ambient temperature: 50 °C

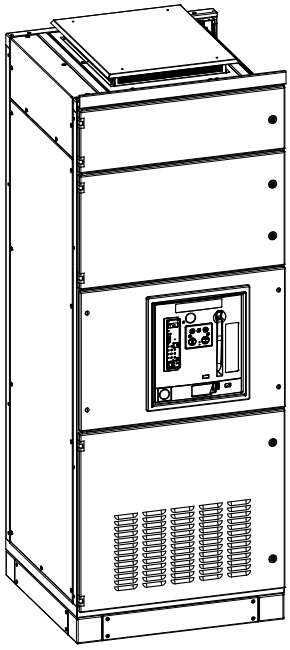
IP42 degree of prot. - closed Max. power loss P_v in Watt

Dimensions in mm			For wall-mounting			Stand-alone		
W	D	H	Enclosure	End enclosure	Center enclosure	Enclosure	End enclosure	Center enclosure
300	300	2000	96	82	72	117	95	81
300	400	2000	138	113	90	149	132	104
300	600	2000	215	176	149	239	188	155
300	800	2000	270	251	189	274	248	200
300	1000	2000	328	289	248	335	290	269
425	300	2000	140	123	104	157	144	133
425	400	2000	177	158	136	203	176	155
425	500	2000	226	190	165	240	216	181
425	600	2000	258	230	189	266	248	209
425	800	2000	313	285	252	325	292	263
425	1000	2000	379	338	300	381	347	302
600	300	2000	192	175	163	239	213	192
600	400	2000	251	216	192	258	247	230
600	500	2000	275	275	229	291	274	260
600	600	2000	305	286	271	324	300	279
600	800	2000	386	347	319	390	367	329
600	1000	2000	436	416	369	443	416	383
800	300	2000	243	242	219	265	257	250
800	400	2000	274	265	270	302	287	274
800	500	2000	315	299	287	348	325	305
800	600	2000	360	334	316	376	367	337
800	800	2000	420	406	374	433	413	397
800	1000	2000	477	451	433	493	462	433
850	300	2000	253	249	242	279	270	262
850	400	2000	287	277	270	330	303	290
850	600	2000	378	351	330	389	377	356
850	800	2000	433	417	394	447	426	408
850	1000	2000	491	464	445	511	477	447
1000	300	2000	262	257	253	299	288	279
1000	400	2000	302	290	282	330	329	312
1000	500	2000	352	332	316	364	355	352
1000	600	2000	376	370	349	394	382	371
1000	800	2000	433	416	406	455	432	413
1000	1000	2000	494	466	445	523	485	454
1100	300	2000	281	274	270	316	316	304
1100	400	2000	330	316	306	350	345	340
1100	600	2000	396	388	383	418	404	392
1100	800	2000	456	438	426	485	460	438
1100	1000	2000	523	492	468	562	518	482
1200	300	2000	305	297	292	334	331	329
1200	400	2000	351	347	335	372	366	361
1200	500	2000	384	379	377	409	399	390
1200	600	2000	415	407	402	444	428	415
1200	800	2000	480	461	448	517	488	464
1200	1000	2000	553	518	493	604	554	514
1350	300	2000	336	336	329	362	358	356
1350	400	2000	376	374	375	405	398	392
1350	600	2000	446	436	430	485	467	451
1350	800	2000	520	497	480	571	536	508
1350	1000	2000	605	563	533	674	616	566
425	800	2200	335	298	271	347	309	275
600	800	2200	390	366	328	398	378	344
650	800	2200	404	387	346	414	393	367
800	800	2200	450	431	412	468	443	420
850	800	2200	464	444	429	486	459	435
1000	800	2200	508	485	467	541	509	481
1100	800	2200	539	513	494	583	545	514
1200	800	2200	571	543	521	628	585	549
1350	800	2200	624	590	564	703	651	608
425	800	2400	351	312	279	355	327	285
600	800	2400	398	379	342	410	386	365
650	800	2400	414	394	362	428	402	379
800	800	2400	463	440	421	487	456	429
850	800	2400	479	455	436	508	474	446
1000	800	2400	531	501	479	575	533	498
1100	800	2400	567	533	509	624	576	537
1200	800	2400	605	567	540	679	624	578
1350	800	2400	668	624	590	775	705	648

Loss factors for horizontal separation panels:

Number of internalal horizontal separation panels	0	1	2	3
Loss factor of P_v	1	0.94	0.84	0,72

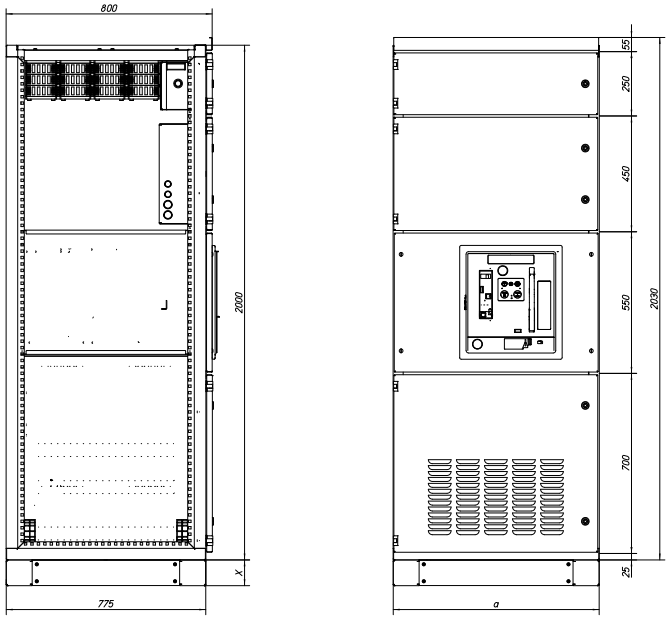
XP Power Sections for single ACBs of the IZMX16/40 and IZM63 series from 630 to 6300 A



XP_single_Katalog_2a

For air circuit breakers IZMX16/40:

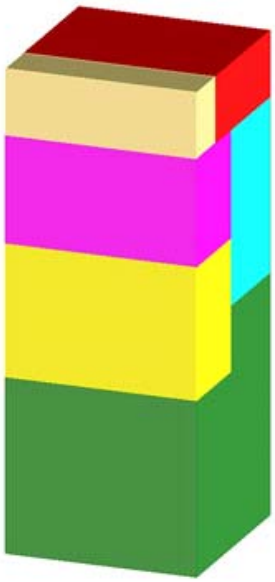
- in withdrawable design design
- in fixed design (not IZM63)
- In 3-pole, 4-pole or as a 3P+N version
- thanks to a switch they can be realised as incoming, outgoing or coupler sections
- optimal conditions for energy/transformer measurements
- transformer straps integrated in the copper



XP_single_Katalog_1

Dimensions

- Section depth: 800 mm
  In addition, you can add a cable guidance cabinet at the back of the XP section
- Section width (a): 425, 600, 800, 1000, 1100, 1350 mm
- Section height: 2000 mm, optionally with a plinth (x) of 100 or 200 mm



XP_Funktionsraeume

XP single IZMX40

Yellow: Switchgear area - ACB

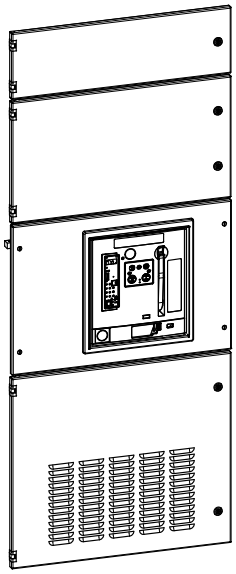
Green: Connection area

Ochre: Metering compartment

Red: Busbar area top

Magenta: Switchgear area

Cyan: Connection ACB - BBT



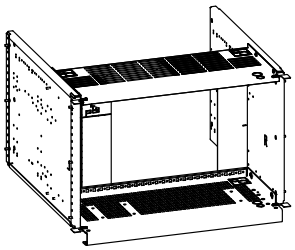
XP_single_Katalog_2b

Main busbar

- Positions possible: Top
- From 1x30/10 up to max 12x30/10 Cu

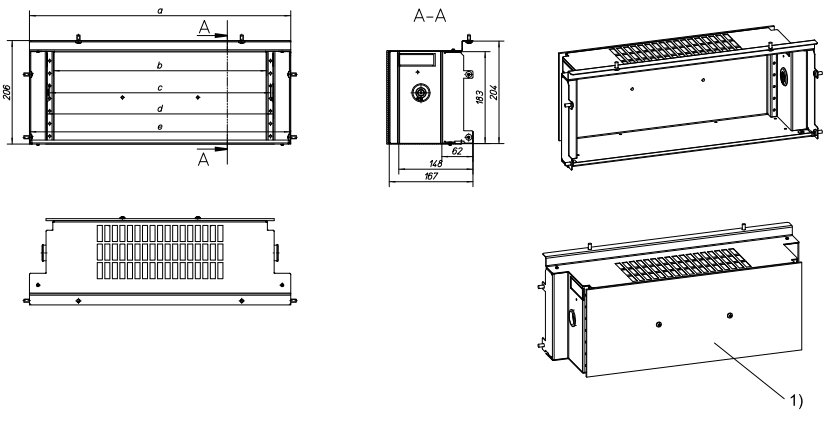
Layout and internal separation up to Form 4/Type7

- Ready-to-install partition panels for section equipment up to Form 4/Type 7
- Clear division of functional areas
- Operation of the switch from outside
- You can either use a snap-on cover or a module door for the switch
- Separate measuring module of H = 450 mm, either tiltable or fixed
- Separate wiring module of H = 250 mm, can optionally be replaced by a partition panel
- The wiring module can be equipped with a cable duct for crosswiring
- Cable connection area can easily be reached from the front and the back
- All doors are equipped with a locking handle and a 3 mm two-way key-bit lock



Wiring module

- With the main busbar mounted at the top or bottom - depending on the application - the wiring module can be mounted in front of the main busbar.
  Where necessary, the module can be equipped with an additional DIN rail so as to be able to conveniently accommodate electrical components with a DIN rail fixing. The module also offers the possibility to install a cable duct for any control wiring/cross-wiring of the system. The cable duct itself is made of plastic-coated metal.
  Various holes or pre-punched areas are included both in the cable duct and in the wiring module to ensure convenient wiring of the system.

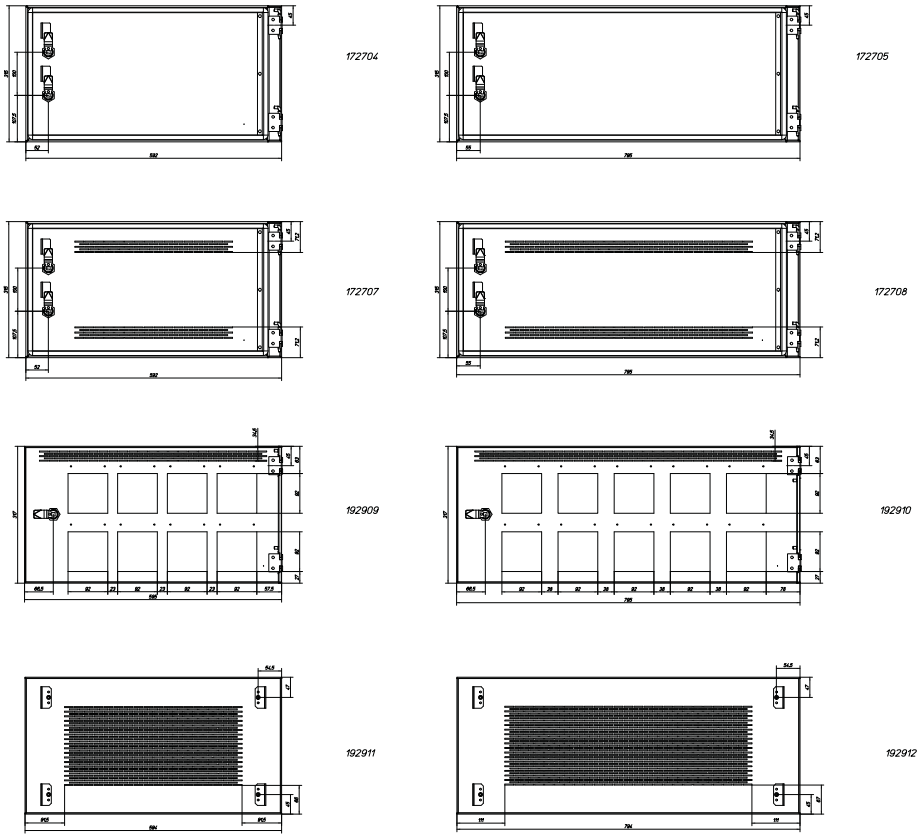


XP_AUX_Compartment

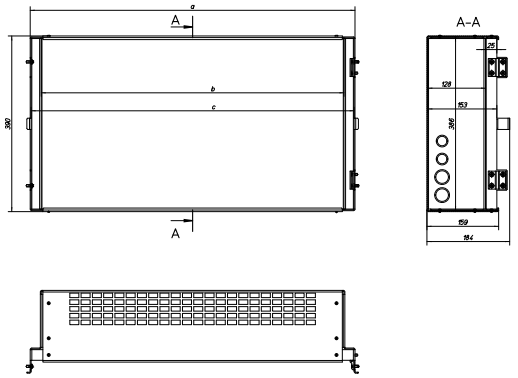
1) Additional insulating partition at the rear

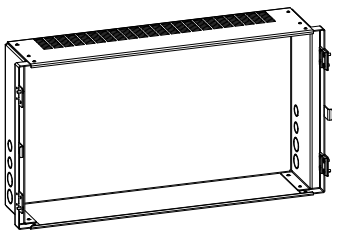
	a	b	c	d	e
W425	345	250	265	277	343
W600	520	425	440	452	518
W800	720	625	640	652	718
W1000	920	825	840	852	918
W1100	1020	925	940	952	1018
W1200	1120	1025	1040	1052	1118
W1350	1270	1175	1190	1202	1268

Dimensions wiring module:



DF_Busbar Chamber Filler





XP_Measuring module

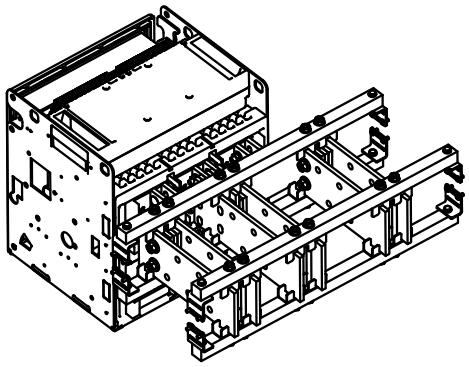
	a	b	c
W425	346	297	342
W600	521	472	517
W800	721	672	717
W1100	1071	972	1017
W1350	1271	1222	1267

Measuring module

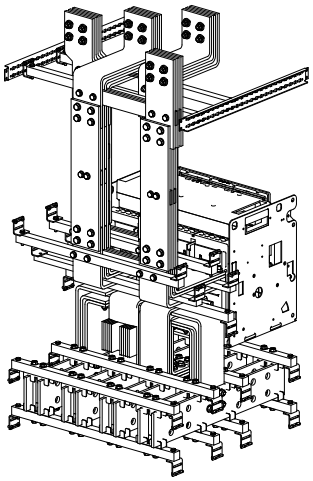
- The measuring module is mounted directly above the circuit breaker. Where necessary, the module can be equipped with DIN rails, larger devices and meters can directly be fixed at the rear panel of the module. Optionally, the module can either be installed in a fixed way or it can be fixed in the cabinet using the hinges included in the mounting kit. Using the hinges provides optimal access to the measuring transformers placed behind the module in case of inspections or whenever else access is required.
  Pre-punched areas that can be used for control wiring will make it easier to do the jobs when mounting the system.

Cable connection

- Cable connection is done in a cost-saving way, directly at flat copper rails horizontally placed in the cabinet, which optionally run from the back of the switch to the rear panel of the cabinet. If more space is required for connection cables, connecting rails can be run under the switch, so the entire section depth of the cabinet will be available. If this is still not sufficient, there is a possibility to add an extra section at the rear and to run the rail connection system across both sections.



XP_stacked_Katalog_3



XP_single_Katalog_3

Power Loss IZMX16

I_n	Breaking capacity	Power Loss at I_n **fixed installation**	Power Loss at I_n **withdrawable**
A		W	W
630	B = Basic	36	50
800	B = Basic	59	80
1000	B = Basic	92	125
1200	B = Basic	132	180
1600	B = Basic	235	320
630	N = Normal	36	50
800	N = Normal	59	80
1000	N = Normal	92	125
1200	N = Normal	132	180
1600	N = Normal	235	320
630	H = High	36	50
800	H = High	59	80
1000	H = High	92	125
1200	H = High	132	180
1600	H = High	235	320

Power Loss IZMX40

I_n	Breaking capacity	Power Loss at I_n **fixed installation**	Power Loss at I_n **withdrawable**
A		W	W
800	B = Basic	90	135
1000	B = Basic	135	120
1200	B = Basic	135	180
1600	B = Basic	225	300
2000	B = Basic	285	345
2500	B = Basic	300	450
3200	B = Basic	480	720
4000	B = Basic	750	1120
800	N = Normal	90	135
1000	N = Normal	90	120
1200	N = Normal	135	180
1600	N = Normal	225	300
2000	N = Normal	285	345
2500	N = Normal	300	450
3200	N = Normal	480	720
4000	N = Normal	750	1120
800	H = High	90	135
1000	H = High	90	120
1200	H = High	135	180
1600	H = High	225	300
2000	H = High	285	345
2500	H = High	300	450
3200	H = High	480	720
4000	H = High	750	1120

Power Loss IZM63

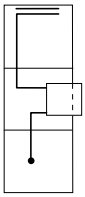
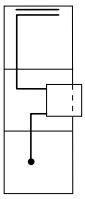
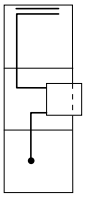
I_n	Breaking capacity	Power Loss at I_n **fixed installation**	Power Loss at I_n **withdrawable**
A		W	W
5000	N = Normal	400	1000
6000	N = Normal	620	1550
4000	H = High	380	750
5000	H = High	400	1000
6000	H = High	620	1550

Short-Circuit Strength for Circuit Breakers IZMX16/40 and IZM63

Circuit breaker	Installation type	I_e up to	Category Breaking capacity/ Additional equipment	Short-circuit strength at 400 V AC		
		A		I_{cc} kA	I_{cw} kA (1 s)	I_{cu} kA (only for switchgear)
IZMX16			B	65	42	42
			N	65	42	50
			H	65	42	65
IZMX40	Fixed, withdrawable	800	B	66	66	66
			N	85	85	85
			H	105	85	105
		1000	B	66	66	66
			N	85	85	85
			H	105	85	105
		1200	B	66	66	66
			N	85	85	85
			H	105	85	105
		1600	B	66	66	66
			N	85	85	85
			H	105	85	105
		2000	B	66	66	66
			N	85	85	85
			H	105	85	105
		2500	B	66	66	66
			N	85	85	85
			H	105	85	105
		3200	B	66	66	66
			N	85	85	85
			H	105	85	105
		4000	B	66	85	85
			N	85	85	85
			H	105	85	105

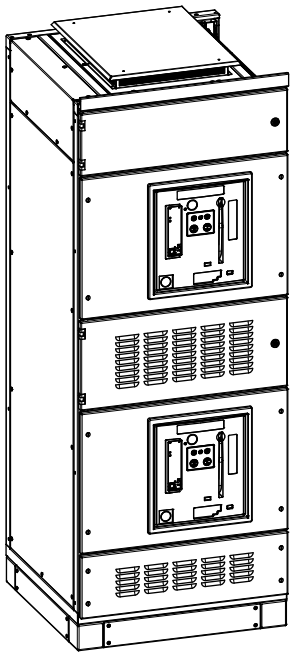
Circuit breaker	Installation type	I_e up to	Category Breaking capacity/ Additional equipment	Short-circuit strength at 440 V AC	at 690 V AC		
		A		I_{cc} kA	I_{cc} kA	I_{cw} kA (1 s)	I_{cu} kA (only for switchgear)
IZM63	withdrawable	4000	N	85	-	85	85
			H	100	85	100	100
		5000	N	85	-	85	85
			H	100	85	100	100
		6300	N	85	-	85	85
			H	100	85	100	100

Current Load for Circuit Breaker IZMX16/40 and IZM63, designed as Single Solution

Configuration	Circuit breaker	Installation type	I_e up to	Degree of protection	Admitted permanent current I depending on the ambient temperature and the degree of protection of the distribution sections		
			A		25 °C A	35 °C A	50 °C A
 00122507_0	IZMX16	Fixed, Drawer unit	1000	IP31 with protective top cover XAD…	1000	1000	689/896[1]
				IP42 with protective top cover XAD…	1000	983	862
				IP55	920	865	828
			1250	IP31 with protective top cover XAD…	1250	1250	931/1210[1]
				IP42 with protective top cover XAD…	1250	1250	1164
				IP55	1240	1168	1117
			1600	IP31 with protective top cover XAD…	1600	1550	1000/1370[1]
				IP42 with protective top cover XAD…	1600	1530	1280
				IP55	1420	1342	1200
 00122507_0	IZMX40	Fixed, Drawer unit	1600	IP31 with protective top cover XAD…	1600	1600	1600
				IP42 with protective top cover XAD…	1600	1600	1600
				IP55	1600	1600	1600
			2000	IP31 with protective top cover XAD…	2000	2000	2000
				IP42 with protective top cover XAD…	2000	2000	2000
				IP55	2000	2000	2000
			2500	IP31 with protective top cover XAD…	2500	2400	2150
				IP42 with protective top cover XAD…	2440	2300	2060
				IP55	2100	1980	1750
			3200	IP31 with protective top cover XAD…	3060	2888	2520
				IP42 with protective top cover XAD…	2930	2760	2420
				IP55	2480	2340	1950
			4000	IP31 with protective top cover XAD…	3870	3650	3250
				IP42 with protective top cover XAD…	3710/3830[2]	3500/3610[2]	3116/3214[2]
				IP55	2860[2]	2700[2]	2400[2]
 00122507_0	IZM63	Drawer unit	6300	IP31 with ventilated top cover	4982	4700	4350
				IP31 with closed top cover	4399	4150	3800
				IP42 with ventilated top cover	4982	4700	4350
				IP42 with closed top cover	4399	4150	3800
				I55	4399	4150	3800

[1] = with ACB plastic cover
[2] = with cooling element

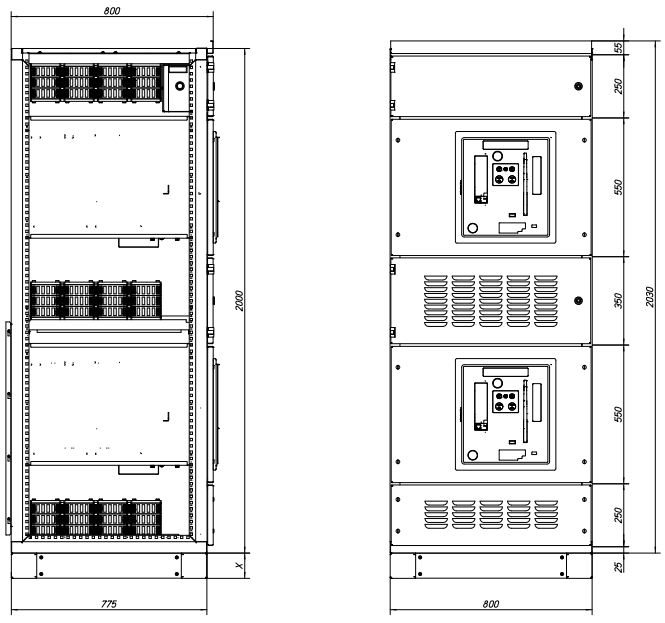
XP Power Sections with 2x IZMX40, designed as Stacked ACB Solution



XP_stacked_Katalog_2a

For air circuit breakers IZMX 40:

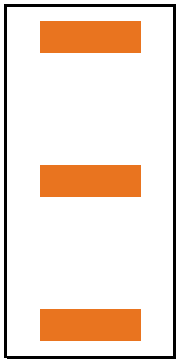
- In withdrawable design design
- In fixed design
- In 3-pole, 4-pole or as a 3P+N version
- thanks to a switch they can be realised as incoming, outgoing or coupler sections
- with up to 3 main busbars per cabinet



XP_stacked_Katalog_1

Dimensions

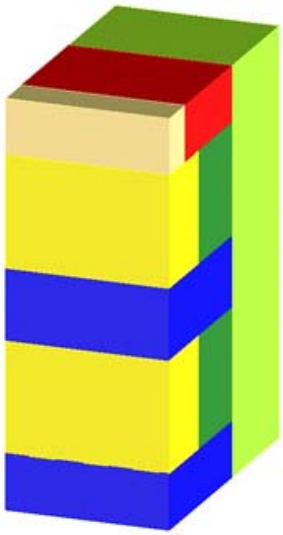
- Section depth: 800 mm
  In addition, you can add a cable guidance cabinet at the back of the XP section
- Section width: 800 mm (3-pole), 1000mm (3-pole, 4-pole, 3P+N)
- Section height: 2000 mm, optionally with a plinth (x) of 100 or 200 mm



Stacked_Cu_Schematik_1

Main busbar

- Positions possible: top, center, bottom
- From 1x30/10 up to max 12x30/10 Cu



XP_Funktionsraeume_stacked

Functional areas XP Stacked

Yellow: Switchgear area ACB

Green: Connection area

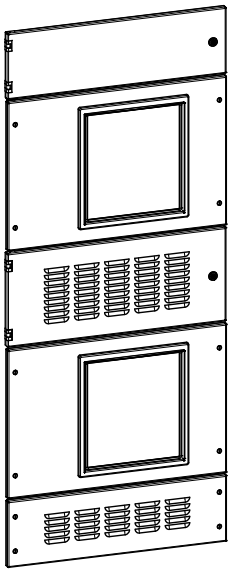
Ochre: Metering compartment

Red: Busbar area top

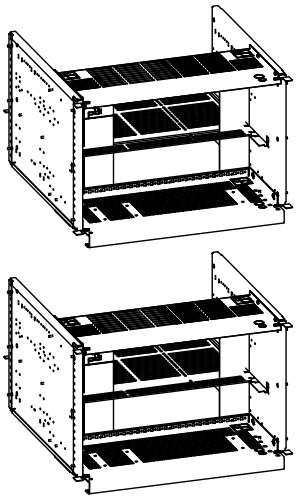
Blue: Busbar at the center or bottom

Layout and internal separation up to Form 4/Type 7

- Ready-to-install partition panels for section equipment up to Form 4/Type 7
- Clear division of functional areas
- Operation of the switch from outside
- You can either use a snap-on cover or a module door for the switches
- Wiring module with H = 250 mm in front of the main busbars at the top or bottom, optionally it can be replaced by a partition panel
- The wiring module can be equipped with a cable duct for crosswiring
- All doors are equipped with a locking handle and a 3 mm two-way key-bit lock

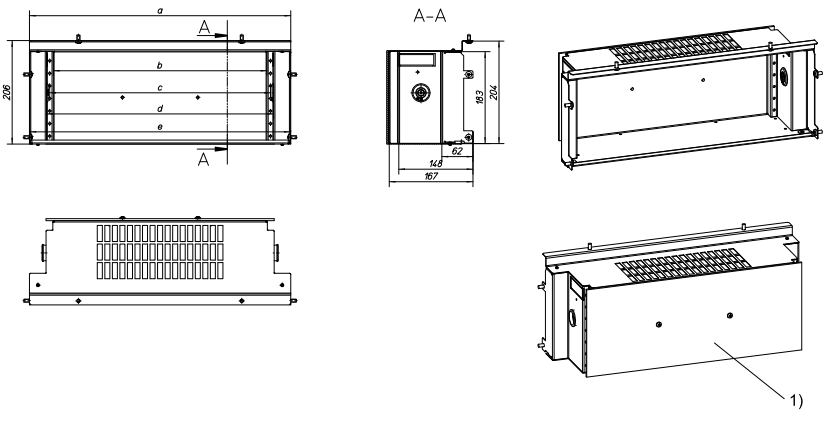


XP_stacked_Katalog_2b



Wiring module

- With the main busbar at the top or bottom - depending on the application - the wiring module can be mounted in front of the main busbar. Where necessary, the module can be equipped with an additional DIN rail so as to be able to conveniently accommodate electrical components with a DIN rail fixing. The module also offers the possibility to install a cable duct for any control wiring/cross-wiring of the system. The cable duct itself is made of plastic-coated metal.
  Various holes or pre-punched areas are included both in the cable duct and in the wiring module to ensure convenient wiring of the system.

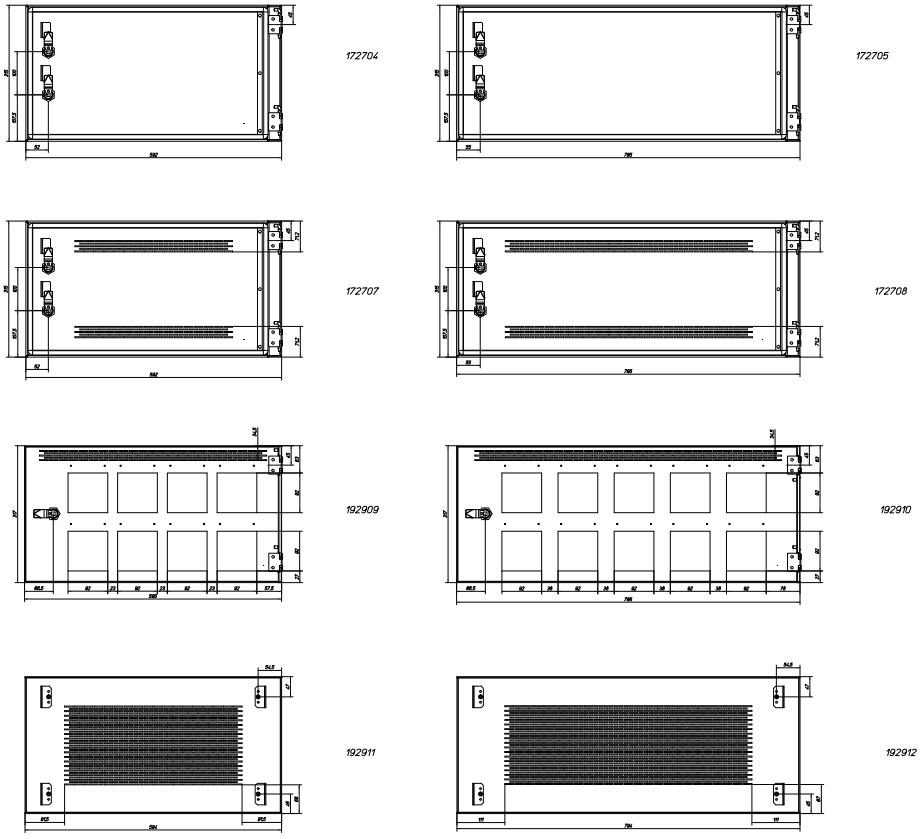


XP_AUX_Compartment

	a	b	c	d	e
W425	345	250	265	277	343
W600	520	425	440	452	518
W800	720	625	640	652	718
W1000	920	825	840	852	918
W1100	1020	925	940	952	1018
W1200	1120	1025	1040	1052	1118
W1350	1270	1175	1190	1202	1268

1) Additional insulating partition at the rear

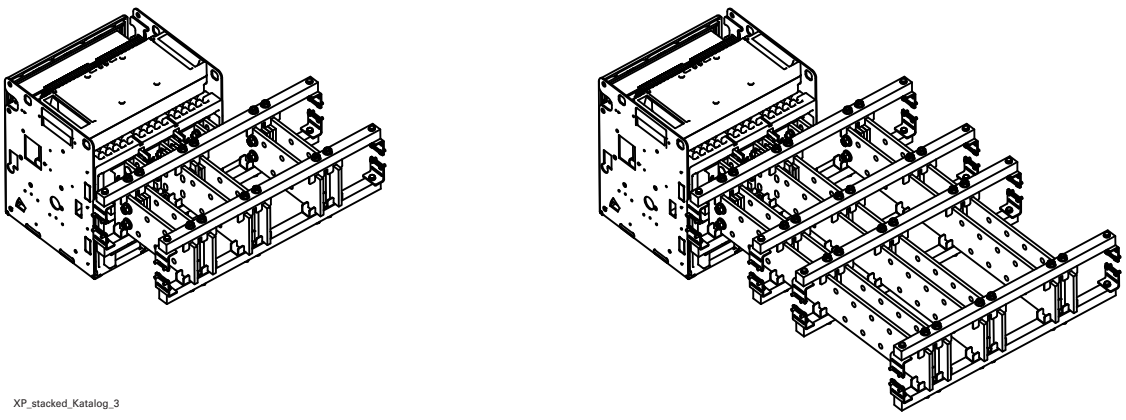
Dimensions wiring module:



DF_Busbar Chamber Filler

Cable connection

- Cable connection is done in a cost-saving way, directly at flat copper rails horizontally placed in the cabinet, which optionally run from the back of the switch to the rear panel of the cabinet. Connection cables run in the cable connection section which must always be installed when a Stacked ACBs solution is used. Should the Cu connection system not provide sufficient space to accommodate all connection cables of the connection system, it is possible to run the bar connection system across both sections and to increase the connection area that way.



XP_stacked_Katalog_3

Power Loss IZMX16

I_n	Breaking capacity	Power Loss at I_n **fixed installation**	Power Loss at I_n **withdrawable**
A		W	W
630	B = Basic	36	50
800	B = Basic	59	80
1000	B = Basic	92	125
1200	B = Basic	132	180
1600	B = Basic	235	320
630	N = Normal	36	50
800	N = Normal	59	80
1000	N = Normal	92	125
1200	N = Normal	132	180
1600	N = Normal	235	320
630	H = High	36	50
800	H = High	59	80
1000	H = High	92	125
1200	H = High	132	180
1600	H = High	235	320

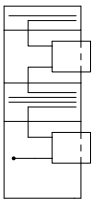
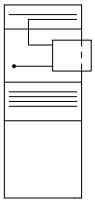
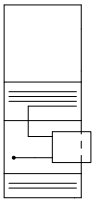
Power Loss IZMX40

I_n	Breaking capacity	Power Loss at I_n **fixed installation**	Power Loss at I_n **withdrawable**
A		W	W
800	B = Basic	90	135
1000	B = Basic	135	120
1200	B = Basic	135	180
1600	B = Basic	225	300
2000	B = Basic	285	345
2500	B = Basic	300	450
3200	B = Basic	480	720
4000	B = Basic	750	1120
800	N = Normal	90	135
1000	N = Normal	90	120
1200	N = Normal	135	180
1600	N = Normal	225	300
2000	N = Normal	285	345
2500	N = Normal	300	450
3200	N = Normal	480	720
4000	N = Normal	750	1120
800	H = High	90	135
1000	H = High	90	120
1200	H = High	135	180
1600	H = High	225	300
2000	H = High	285	345
2500	H = High	300	450
3200	H = High	480	720
4000	H = High	750	1120

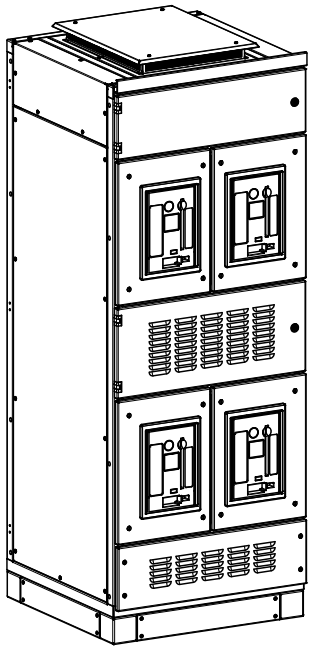
Short-Circuit Strength for Circuit Breakers IZMX16/40

Circuit breaker	Installation type	I_e up to	Category Breaking capacity/ Additional equipment	Short-circuit strength at 400 V AC		
		A		I_{cc} kA	I_{cw} kA (1 s)	I_{cu} kA (only for switchgear)
IZMX16			B	65	42	42
			N	65	42	50
			H	65	42	65
IZMX40	Fixed, withdrawable	800	B	66	66	66
			N	85	85	85
			H	-	-	-
		1000	B	66	66	66
			N	85	85	85
			H	-	-	-
		1200	B	66	66	66
			N	85	85	85
			H	-	-	-
		1600	B	66	66	66
			N	85	85	85
			H	-	-	-
		2000	B	66	66	66
			N	85	85	85
			H	-	-	-
		2500	B	66	66	66
			N	85	85	85
			H	-	-	-
		3200	B	66	66	66
			N	85	85	85
			H	-	-	-
		4000	B	66	85	85
			N	85	85	85
			H	-	-	-

Current Load for Circuit Breaker IZMX40, designed as Stacked Solution

Configuration	Circuit breaker	Installation type	I_e up to	Degree of protection	Admitted permanent current I depending on the ambient temperature and the degree of protection of the distribution sections		
			A		25 °C A	35 °C A	50 °C A
Accomplishment: Stacked ACB with both switches							
 XP_stacked_beide_Schalter	IZMX40 (oben)	Fixed, Drawer unit	4000	IP31 with protective top cover XAD…	3070	2900	2693
				IP42 with protective top cover XAD…	3070	2900	2582
				IP55	2540	2400	1989
	IZMX40 (unten)	Fixed, Drawer unit	4000	IP31 with protective top cover XAD…	2970	2800	2600
				IP42 with protective top cover XAD…	2970	2800	2493
				IP55	2440	2300	1920
Accomplishment: Stacked ACB with one switche above							
 XP_stacked_ACB_1_Schalter_oben	IZMX40 (oben)	Fixed, Drawer unit	4000	IP31 with protective top cover XAD…	3390	3200	2971
				IP42 with protective top cover XAD…	3390	3200	2849
				IP55	2620	2469	2194
Accomplishment: Stacked ACB with one switche below							
 XP_stacked_ACB_1_Schalter_unten	IZMX40 (oben)	Fixed, Drawer unit	4000	IP31 with protective top cover XAD…	3390	3200	2971
				IP42 with protective top cover XAD…	3390	3200	2849
				IP55	2620	2469	2194

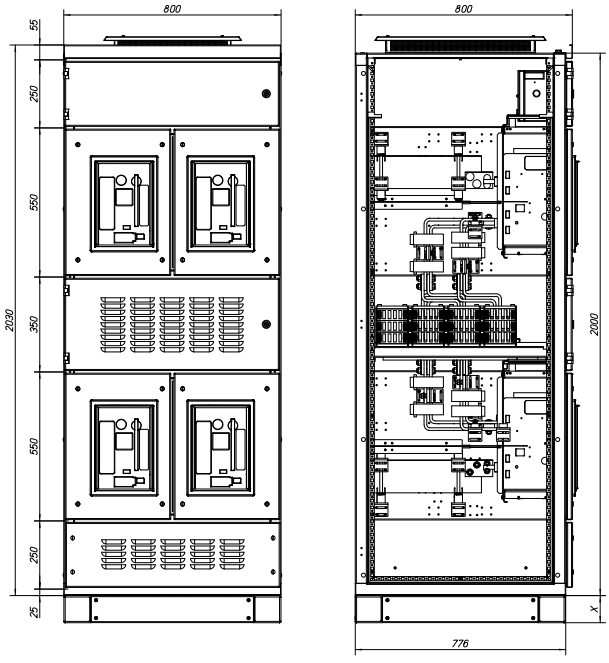
XP Power Sections with 4x IZMX16, designed as Stacked ACB Solution



XP_4xIZMX16_3pW_stackedACB

For air circuit breakers IZMX 16:

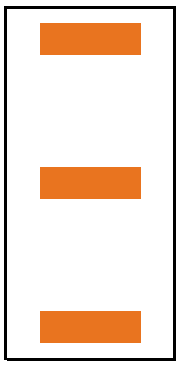
- In withdrawable design design
- In fixed design
- In 3-pole, 4-pole or as a 3P+N version
- they can be realised as incoming, outgoing or coupler switches
- with up to 3 main busbars per cabinet



XP_4xIZMX16_stackedACB_Mas

Dimensions

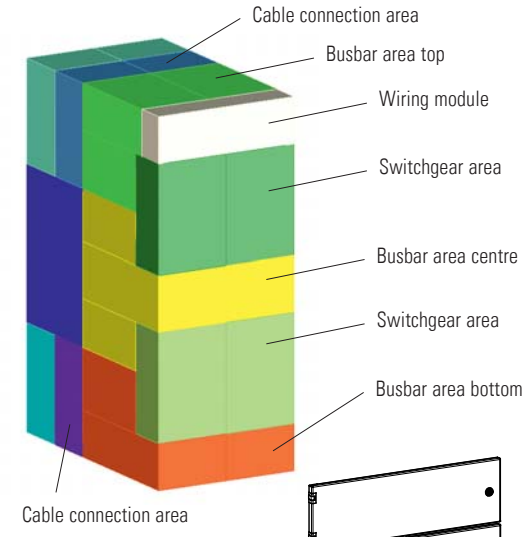
- Section depth: 800 mm
  You must add a cable guidance cabinet at the back of the XP section.
- Section width: 800 mm (3-pole), 1000 mm (4-pole, 3P+N)
- Section height: 2000 mm, optionally with a plinth (x) of 100 or 200 mm



Stacked_Cu_Schematik_1

Main busbar

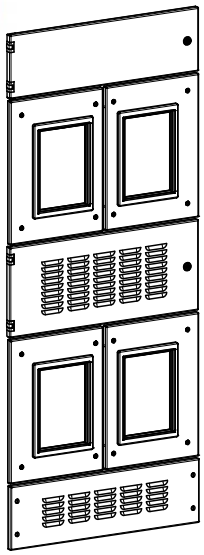
- Positions possible: top, center, bottom
- From 1x30/10 up to max 12x30/10 Cu



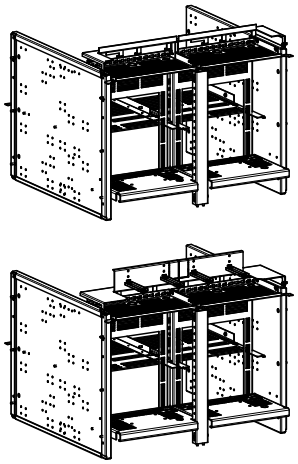
XP_Funktionsraeume_4x_stacked

Layout and internal separation up to Form 4/Type 7

- Ready-to-install partition panels for section equipment up to Form 4/Type 7
- Clear division of functional areas
- Operation of the switch from outside
- Wiring module with H = 250 mm in front of the main busbars at the top or bottom, optionally it can be replaced by a partition panel
- The wiring module can be equipped with a cable duct for crosswiring
- All doors are equipped with a locking handle and a 3 mm two-way key-bit lock



XP_4xIZMX16_3pW_stackedACB

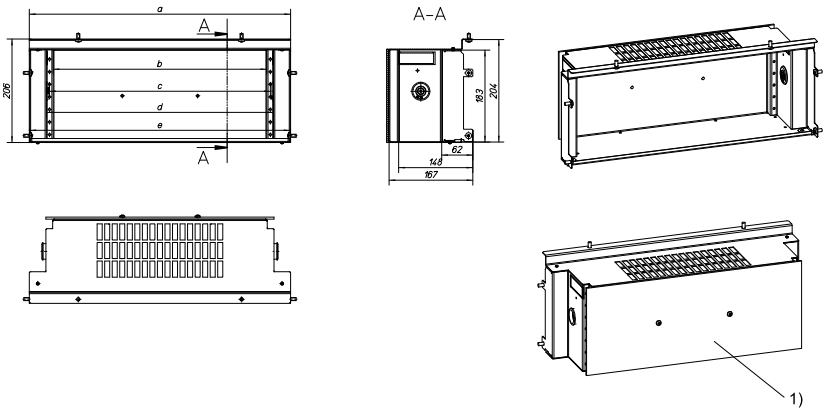


Compact fitting kits for fixed and withdrawable switchgear

It is not possible to mix fixed and withdrawable switchgear on the same mounting level. But you can set up the different mounting levels in a different way, e.g. fixed switchgear at the top and withdrawable switchgear at the bottom.

Wiring module

- With the main busbar at the top or bottom - depending on the application - the wiring module can be mounted in front of the main busbar. Where necessary, the module can be equipped with an additional DIN rail so as to be able to conveniently accommodate electrical components with a DIN rail fixing. The module also offers the possibility to install a cable duct for any control wiring/cross-wiring of the system. The cable duct itself is made of plastic-coated metal.
  Various holes or pre-punched areas are included both in the cable duct and in the wiring module to ensure convenient wiring of the system.

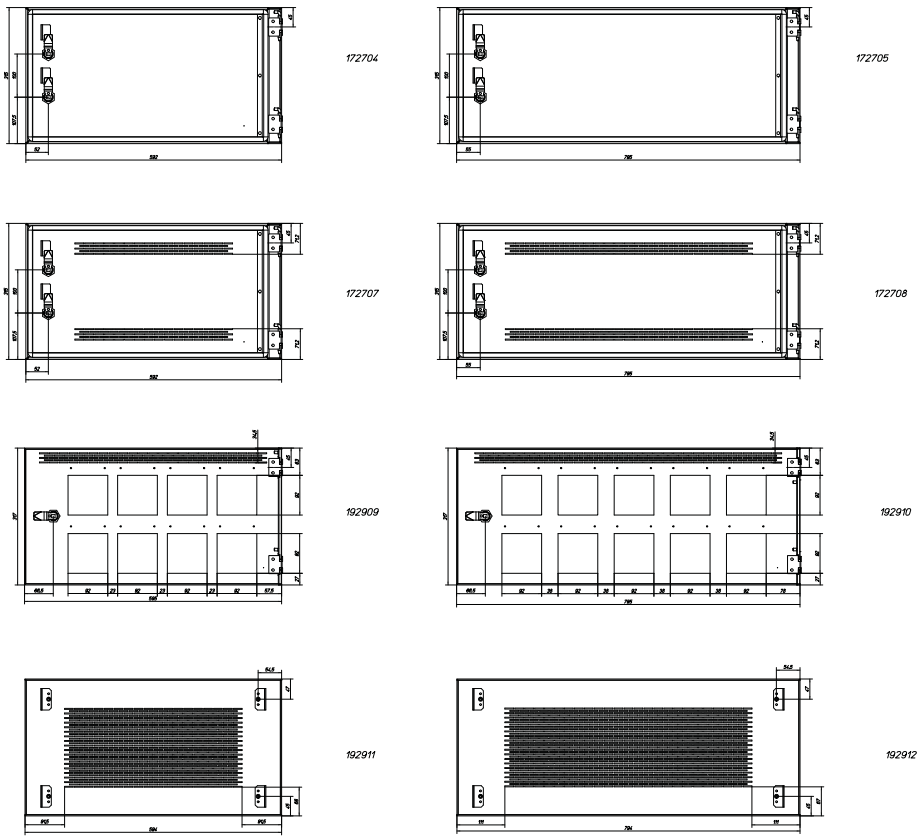


XP_AUX_Compartment

	a	b	c	d	e
W425	345	250	265	277	343
W600	520	425	440	452	518
W800	720	625	640	652	718
W1000	920	825	840	852	918
W1100	1020	925	940	952	1018
W1200	1120	1025	1040	1052	1118
W1350	1270	1175	1190	1202	1268

1) Additional insulating partition at the rear

Dimensions wiring module:

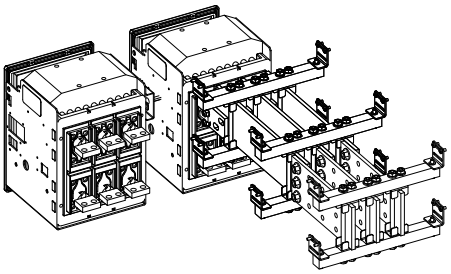


DF_Busbar Chamber Filler

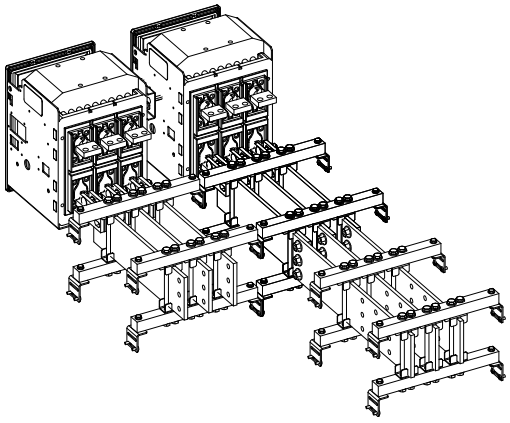
Cable connection

- Cable connection is done in a cost-saving way, directly at flat copper rails horizontally placed in the cabinet, which run from the back of the switch to the rear panel of the cabinet. Connection cables run in the cable connection section which must always be installed when a Stacked ACBs solution is used. Should the Cu connection system not provide sufficient space to accommodate all connection cables of the connection system, it is possible to run the bar connection system across both sections and to increase the connection area that way.

Short connection version



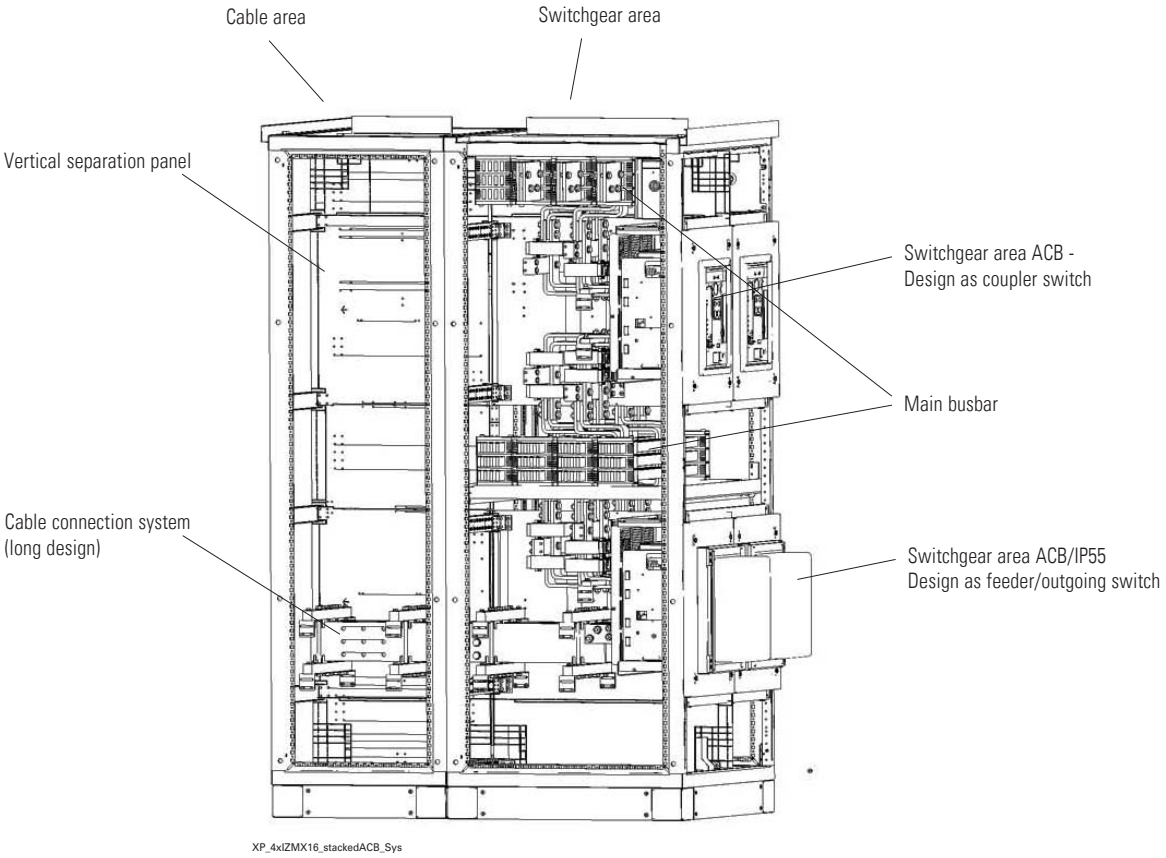
Long connection version



XP_4xIZMX16_stackedACB_Anschl

System explanation

- Each switch can be used individually, either as a feeder, outgoing or coupler switch between two main busbars.
- The length of the cable connection copper can be adjusted to the respective situation. Therefore it can be arranged for cable connection from the top/bottom or from both sides. Depending on the connection situation, the partitions can also be placed in the cable area and adjusted in depth. Each functional area can be completely partitioned with regard to any adjacent areas, therefore it is possible to provide a maximum of internal separation and safety (i.e. up to Form 4/Type 7).
- The setup of the internal separations / partition panels must be carried out in accordance with the respective work instructions.
- Current transformers can be used in each configuration (for standard transformer sizes / position of installation please refer to the respective building instruction).



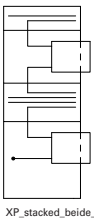
Power Loss IZMX16

I_n	Breaking capacity	Power Loss at I_n **fixed installation**	Power Loss at I_n **withdrawable**
A		W	W
630	B = Basic	36	50
800	B = Basic	59	80
1000	B = Basic	92	125
1200	B = Basic	132	180
1600	B = Basic	235	320
630	N = Normal	36	50
800	N = Normal	59	80
1000	N = Normal	92	125
1200	N = Normal	132	180
1600	N = Normal	235	320
630	H = High	36	50
800	H = High	59	80
1000	H = High	92	125
1200	H = High	132	180
1600	H = High	235	320

Short-Circuit Strength for Circuit Breakers IZMX16

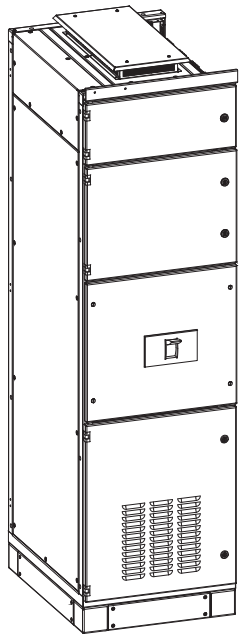
Circuit breaker	Installation type	I_e up to	Category Breaking capacity/ Additional equipment	Short-circuit strength at 400 V AC		
		A		I_{cc} kA	I_{cw} kA (1 s)	I_{cu} kA (only for switchgear)
IZMX16			B	65	42	42
			N	65	42	50
			H	65	42	65

Current Load for Circuit Breaker IZMX16, designed as 4-fold Stacked Solution

Configuration	Circuit breaker	Installation type	I_e up to	Degree of protection	Admitted permanent current I depending on the ambient temperature and the degree of protection of the distribution sections		
			A		25 °C A	35 °C A	50 °C A
Accomplishment: 4-fold Stacked ACB							
 XP_stacked_beide_Schalter	IZMX16	Fixed, Drawer unit	1600	IP31 with protective top cover XAD…	1312	1250	1161
				IP42 with protective top cover XAD…	1312	1250	1113
				IP55	1166	1100	900

Note: Ratings are valid for all four mounting positions

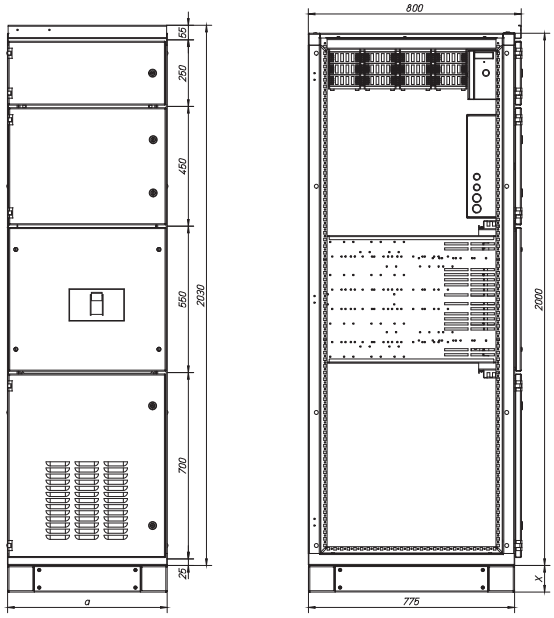
XP Power Sections for Single MCCB of the NZM4 series from 800 to 1600 A



Single-NZM4

For NZM4 module circuit breakers:

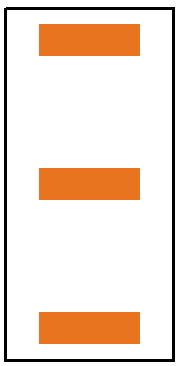
- In fixed design
- In withdrawable design
- In 3-pole, 4-pole or as a 3P+N version
- Can be combined with a motor drive
- Can be combined with a rotary drive
- Can be combined with a mechanical lock
- Can be used as a feeder, outgoing or coupler switch
- Transformer straps integrated into the copper connection
- Fitting kits/covers for IP31/IP42/IP55



Single-NZM4

Dimensions

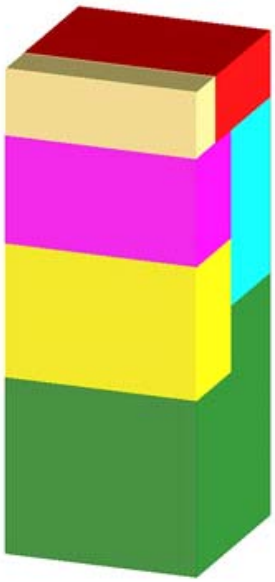
- Section depth: 800 mm
  In addition, you can add a cable guidance cabinet at the back of the XP section
- Section width (a): 425, 600 mm
- Section height: 2000 mm, optionally with a plinth (x) of 100 or 200 mm



Stacked_Cu_Schematik_1

Main busbar

- Positions possible: top, center, bottom
- From 1x30/10 up to max 12x30/10 Cu



XP_Funktionsraeume

XP single NZM4

Yellow: Switchgear area NZM4

Green: Connection area

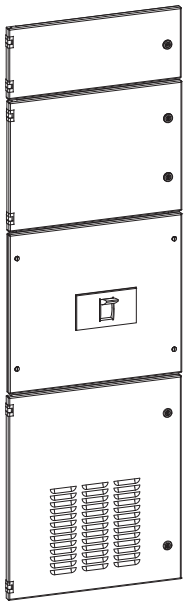
Ochre: Metering compartment

Magenta: Switchgear area

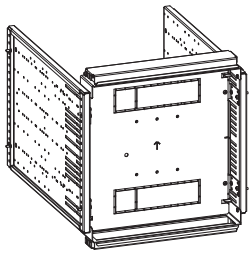
Cyan: Connection MCCB - BBT

Layout and internal separation up to Form 4/Type7

- Ready-to-install partition panels for section equipment up to Form 4/Type 7
- Clear division of functional areas
- Operation of the switch from outside
- You can either use a snap-on cover or a module door for the switch
- Separate measuring module of H = 450 mm, either tiltable or fixed
- Separate wiring module of H = 250 mm, can optionally be replaced by partition panels
- The wiring module can be equipped with a cable duct for crosswiring
- all doors come as standard with 3 mm two-way keybit locks

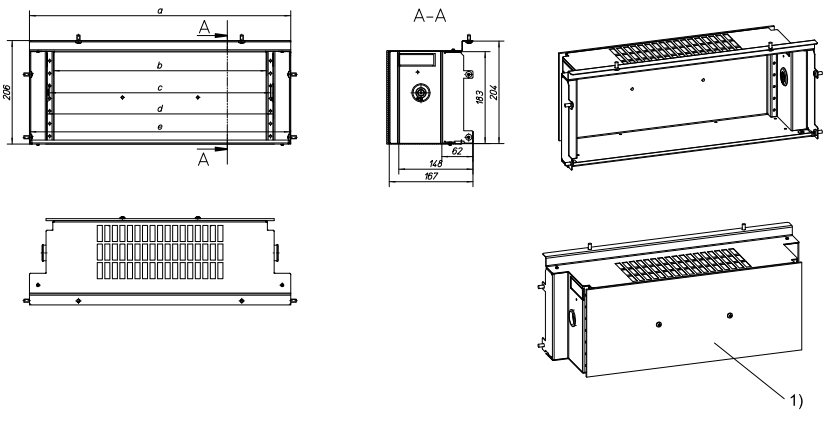


Single-NZM4



Wiring module

- With the main busbar at the top or bottom - depending on the application - the wiring module can be mounted in front of the main busbar. Where necessary, the module can be equipped with an additional DIN rail so as to be able to conveniently accommodate electrical components with a DIN rail fixing. The module also offers the possibility to install a cable duct for any control wiring/cross-wiring of the system. The cable duct itself is made of plastic-coated metal.
  Various holes or pre-punched areas are included both in the cable duct and in the wiring module to ensure convenient wiring of the system.

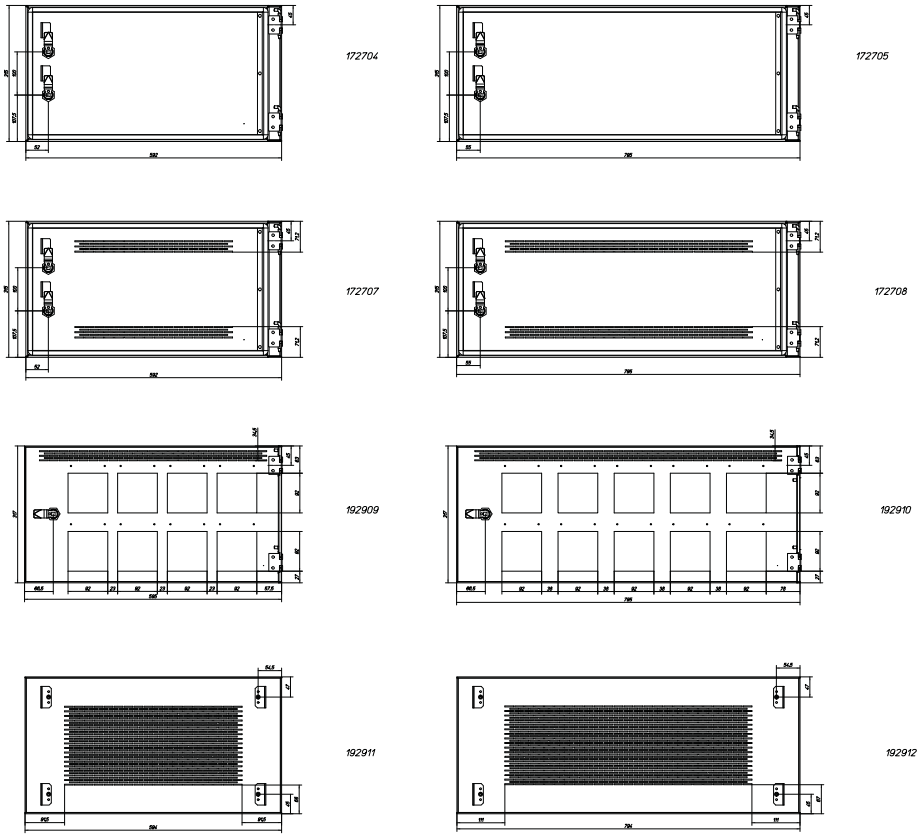


XP_AUX_Compartment

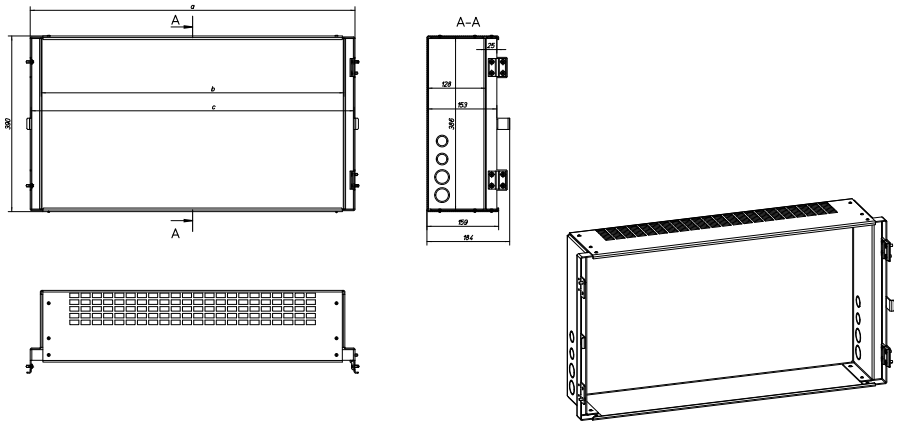
	a	b	c	d	e
W425	345	250	265	277	343
W600	520	425	440	452	518
W800	720	625	640	652	718
W1000	920	825	840	852	918
W1100	1020	925	940	952	1018
W1200	1120	1025	1040	1052	1118
W1350	1270	1175	1190	1202	1268

1) Additional insulating partition at the rear

Dimensions wiring module:



DF_Busbar Chamber Filler



XP_Measuring module

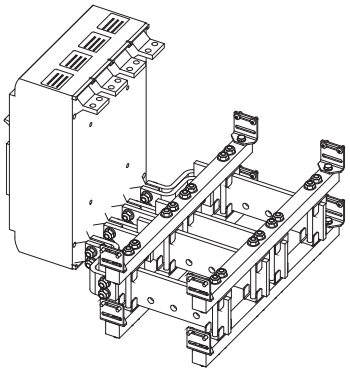
	a	b	c
W425	346	297	342
W600	521	472	517
W800	721	672	717

Measuring module

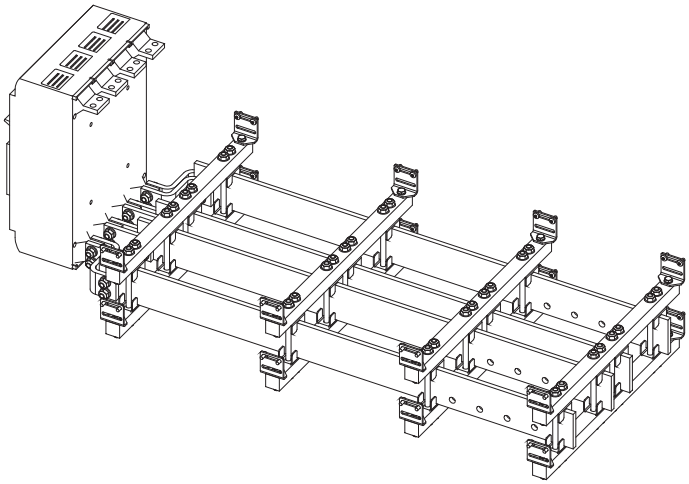
- The measuring module is mounted directly above the circuit breaker. Where necessary, the module can be equipped with DIN rails, larger devices and meters can directly be fixed at the rear panel of the module. Optionally, the module can either be installed in a fixed way or it can be fixed in the cabinet using the hinges included in the mounting kit. Using the hinges provides optimal access to the measuring transformers placed behind the module in case of inspections or whenever else access is required.
  Pre-punched areas that can be used for control wiring will make it easier to do the jobs when mounting the system.

Cable connection

- Cable connection is done in a cost-saving way, directly at flat copper rails horizontally placed in the cabinet, which optionally run from the back of the switch to the rear panel of the cabinet. If more space is required for connection cables, connecting rails can be run under the switch, so the entire section depth of the cabinet will be available. If this is still not sufficient, there is a possibility to add an extra section at the rear and to run the rail connection system across both sections.



Single-NZM4



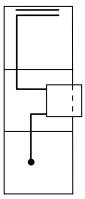
Power Loss NZM4

I_n	Power Loss at I_n **fixed installation**	Power Loss at I_n **withdrawable**
A	W	W
800	-	-
1000	-	-
1250	-	-
1600	284	77

Short-Circuit Strength for Circuit Breakers NZM4

Circuit breaker	Installation type	Cross-section of the copper bar system	I_e up to	Category of breaking capacity	Short-circuit strength at 400 V AC			
					I_{cw}	I_{cc} at 415 V	I_{cc} at 480 V	I_{cc} at 690 V
			A		kA	kA	kA	kA
NZM4	Fixed, withdrawable	1 x 50 x 10	1200	N	19.2	65	50	50
		2 x 50 x 10	1600	H	19.2	65	50	50

Current Load for Circuit Breaker NZM4, designed as Single Solution

Configuration	Circuit breaker	Installation type	I_e up to	Degree of protection	Admitted permanent current I depending on the ambient temperature and the degree of protection of the distribution sections		
			A		25 °C A	35 °C A	50 °C A
	NZM4	Fixed, withdrawable	1250	IP31	-	1200	1036
				IP42	-	1200	1226
				IP55	-	1036	1059
			1600	IP31	-	1420	1226
				IP42	-	1420	1226
				IP55	-	1226	1059

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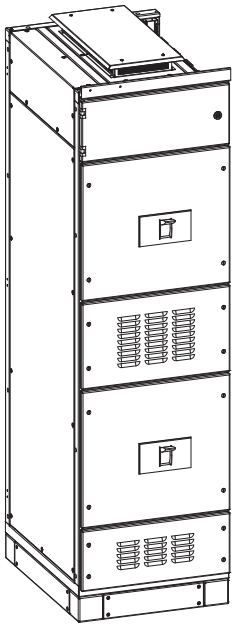
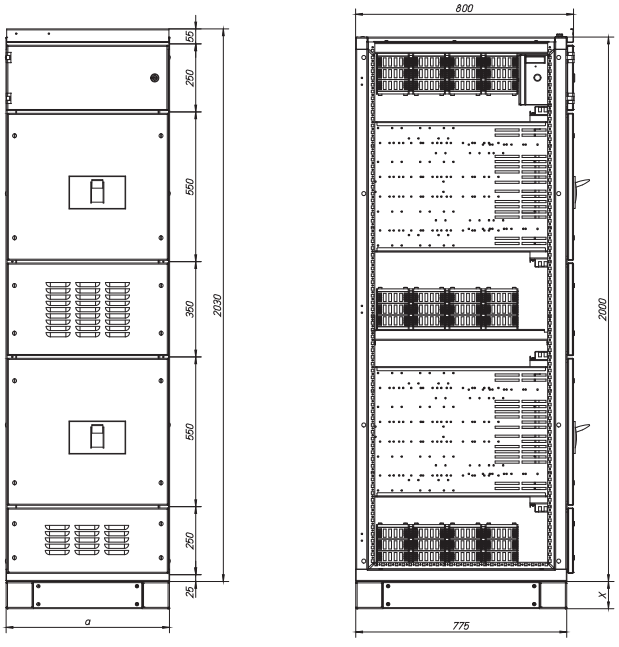
XP Power Sections for 2x MCCB (On top of each other/Stacked) of the NZM4 series from 800 to 1600 A



Stacked-NZM4

For NZM4 module circuit breakers:

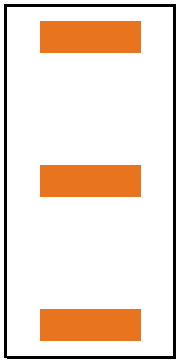
- In fixed design
- In withdrawable design
- In 3-pole, 4-pole or as a 3P+N version
- Can be combined with a motor drive
- Can be combined with a rotary drive
- Can be combined with a mechanical lock
- Can be used as a feeder, outgoing or coupler switch
- Fitting kits/covers for IP31/IP42/IP55



Stacked-NZM4

Dimensions

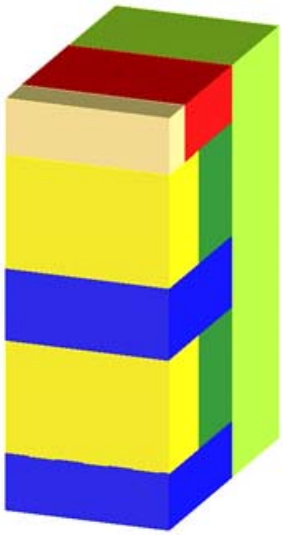
- Section depth: 800 mm
  In addition, you can add a cable guidance cabinet at the back of the XP section
- Section width (a): 425, 600 mm
- Section height: 2000 mm, optionally with a plinth (x) of 100 or 200 mm



Stacked_Cu_Schematik_1

Main busbar

- Positions possible: top, center, bottom
- From 1x30/10 up to max 12x30/10 Cu



XP_Funktionsraeume_stacked

Functional areas XP Stacked

Yellow: Switchgear area NZM4

Green: Connection area

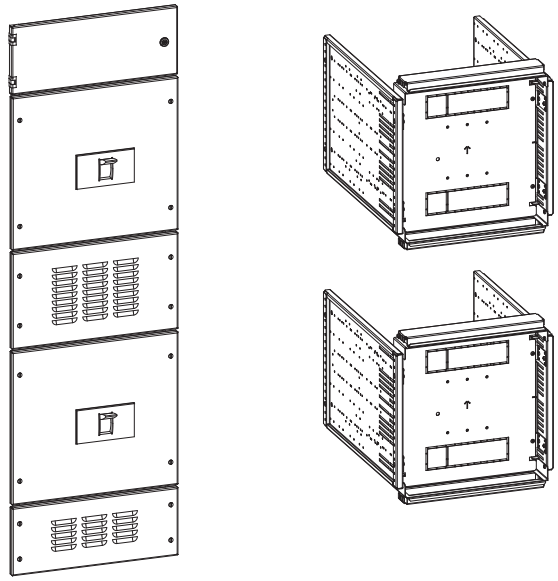
Ochre: Metering compartment

Red: Busbar area top

Blue: Busbar at the center or bottom

Layout and internal separation up to Form 4/Type 7

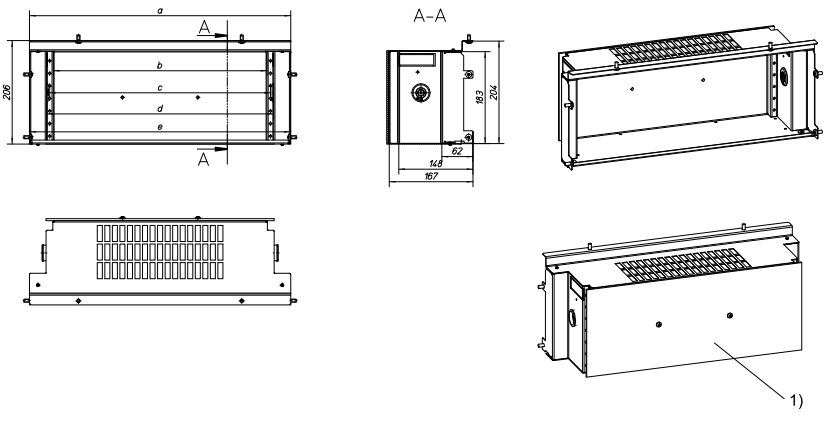
- Ready-to-install partition panels for section equipment up to Form 4/Type 7
- Clear division of functional areas
- Operation of the switch from outside
- You can either use a snap-on cover or a module door for the switches
- Wiring module with H = 250 mm in front of the main busbars at the top or bottom, optionally it can be replaced by a partition panel
- The wiring module can be equipped with a cable duct for crosswiring
- All doors are equipped with a locking handle and a 3 mm two-way key-bit lock



Stacked-NZM4

Wiring module

- With the main busbar at the top or bottom - depending on the application - the wiring module can be mounted in front of the main busbar. Where necessary, the module can be equipped with an additional DIN rail so as to be able to conveniently accommodate electrical components with a DIN rail fixing. The module also offers the possibility to install a cable duct for any control wiring/cross-wiring of the system. The cable duct itself is made of plastic-coated metal.
  Various holes or pre-punched areas are included both in the cable duct and in the wiring module to ensure convenient wiring of the system.

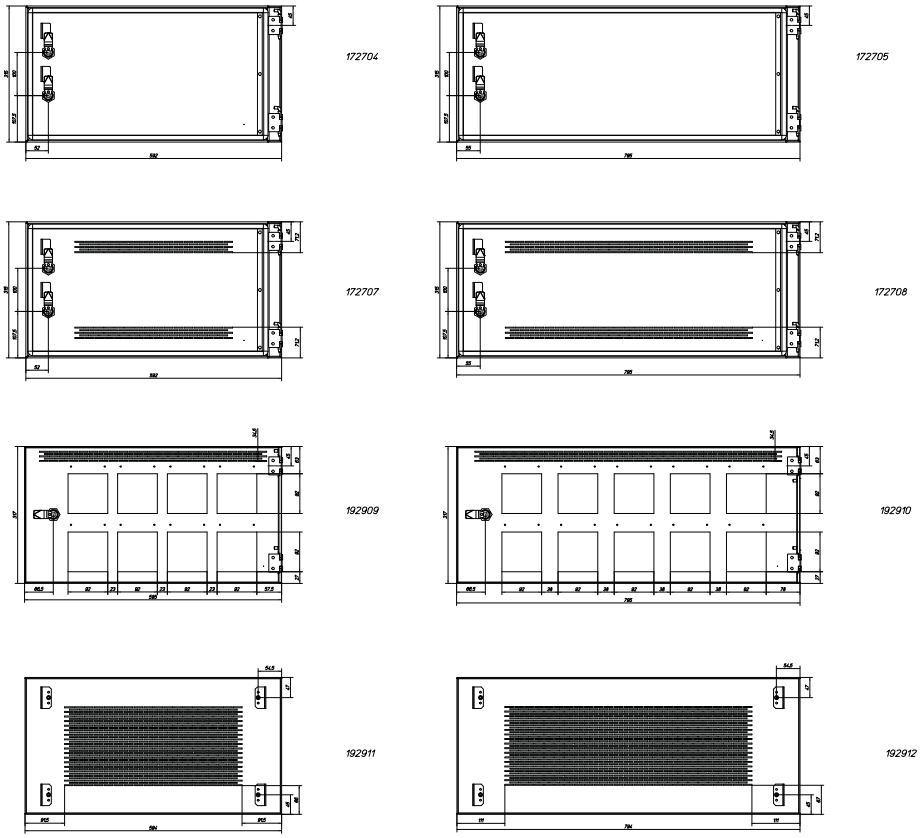


XP_AUX_Compartment

1) Additional insulating partition at the rear

	a	b	c	d	e
W425	345	250	265	277	343
W600	520	425	440	452	518
W800	720	625	640	652	718
W1000	920	825	840	852	918
W1100	1020	925	940	952	1018
W1200	1120	1025	1040	1052	1118
W1350	1270	1175	1190	1202	1268

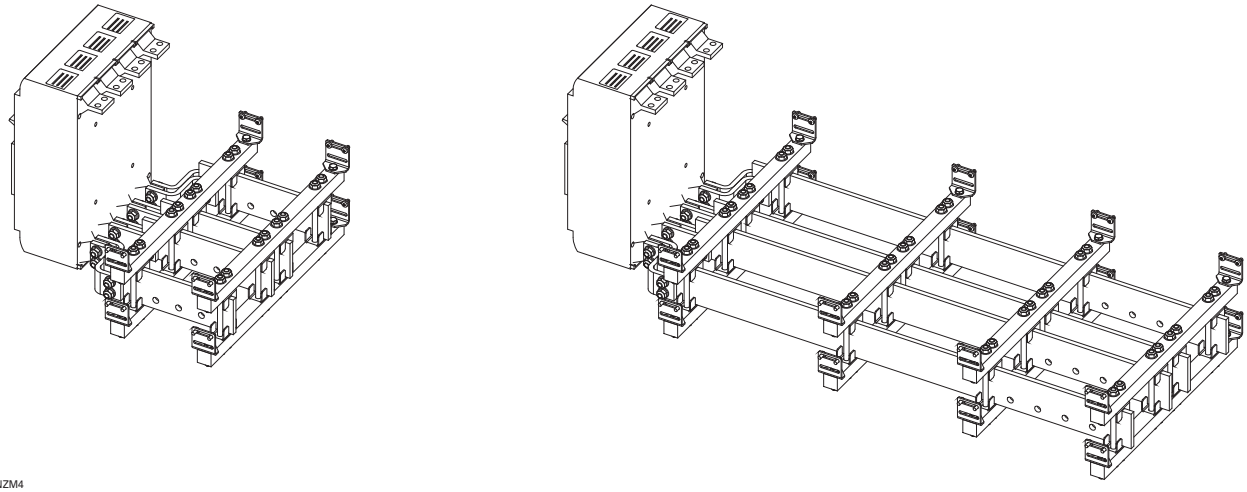
Dimensions wiring module:



DF_Busbar Chamber Filler

Cable connection

- Cable connection can be done cost-efficiently on flat copper bars horizontally placed in the switchboard, they can optionally reach from the rear side of the circuit breaker to the rear panel of the switchboard cabinet. The connection cables run through the cable connection area which always has to be added in case of a Stacked ACB solution. Should the Cu connection system not provide enough space to connect all connection cables in the connection area you can run the bar connection system through both sections and increase the size of the connection area that way.



Single-NZM4

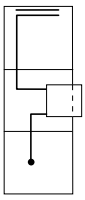
Power Loss NZM4

I_n	Power Loss at I_n **fixed installation**	Power Loss at I_n **withdrawable**
A	W	W
800	-	-
1000	-	-
1250	-	-
1600	284	77

Short-Circuit Strength for Circuit Breakers NZM4

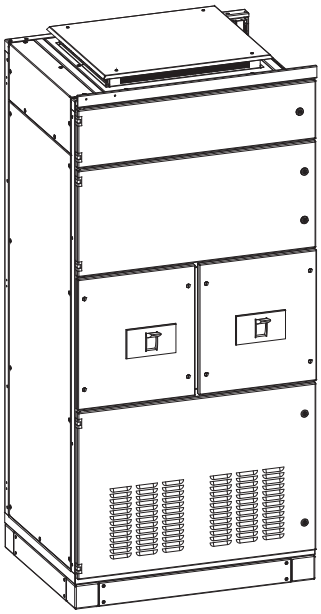
Circuit breaker	Installation type	Cross-section of the copper bar system	I_e up to	Category of breaking capacity	Short-circuit strength at 400 V AC			
					I_{cw}	I_{cc} at 415 V	I_{cc} at 480 V	I_{cc} at 690 V
			A		kA	kA	kA	kA
NZM4	Fixed, withdrawable	1 x 50 x 10	1200	N	19.2	65	50	50
		2 x 50 x 10	1600	H	19.2	65	50	50

Current Load for Circuit Breaker NZM4, designed as Stacked solution

Configuration	Circuit breaker	Installation type	I_e up to	Degree of protection	Admitted permanent current I depending on the ambient temperature and the degree of protection of the distribution sections		
			A		25 °C A	35 °C A	50 °C A
	NZM4	Fixed, withdrawable	1250	IP31	-	930	803
				IP42	-	930	803
				IP55	-	803	761
			1600	IP31	-	1100	950
				IP42	-	1100	950
				IP55	-	950	900

00122507_0

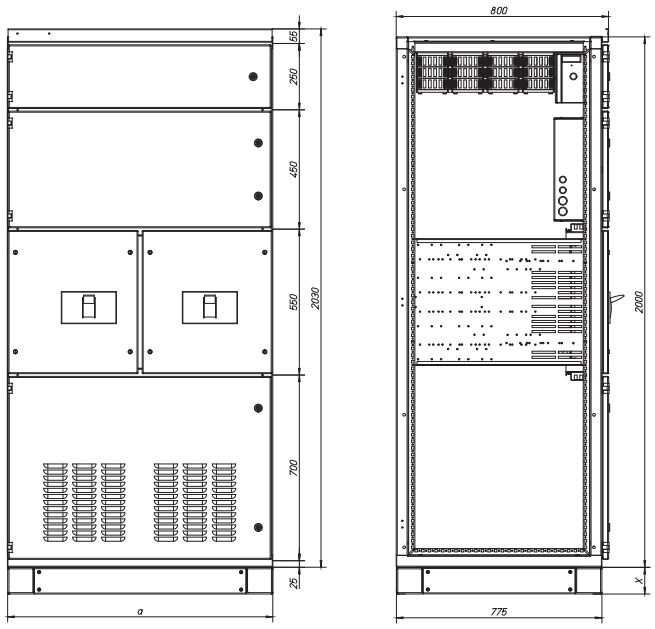
XP Power Sections for 2x MCCB (Side/Side) of the NZM4 series from 800 to 1600 A



2xNZM4_SbS

For NZM4 module circuit breakers:

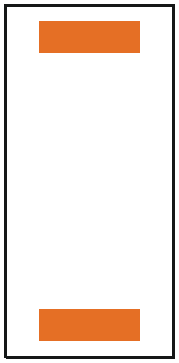
- In fixed design
- In withdrawable design
- In 3-pole, 4-pole or as a 3P+N version
- Can be combined with a motor drive
- Can be combined with a rotary drive
- Can be combined with a mechanical lock
- Can be used as a feeder, outgoing or coupler switch
- Fitting kits/covers for IP31/IP42/IP55



2xNZM4_SbS

Dimensions

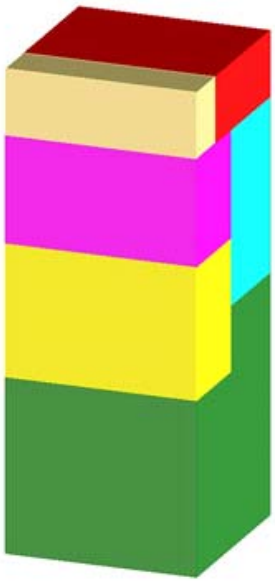
- Section depth: 800 mm
  You must add a cable guidance cabinet at the back of the XP section.
- Section width (a): 800, 1000 mm
- Section height: 2000 mm, optionally with a plinth (x) of 100 or 200 mm



Stacked_Cu_Schematik_7

Main busbar

- mögliche Positionen: oben and unten
- From 1x30/10 up to max 12x30/10 Cu



XP_Funktionsraeume

XP single NZM4

Yellow: Switchgear area NZM4

Green: Connection area

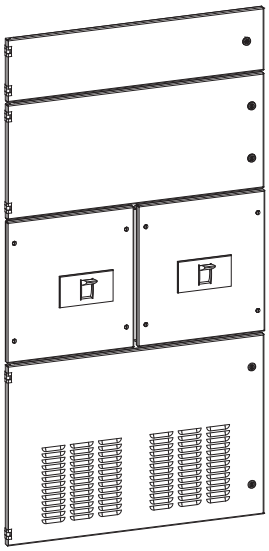
Ochre: Metering compartment

Magenta: Switchgear area

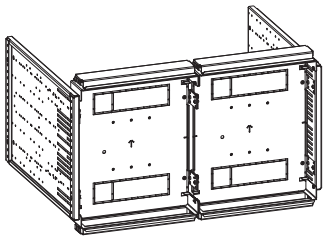
Cyan: Connection MCCB - BBT

Layout and internal separation up to Form 4/Type7

- Ready-to-install partition panels for section equipment up to Form 4/Type 7
- Clear division of functional areas
- Operation of the switch from outside
- You can either use a snap-on cover or a module door for the switch
- Separate measuring module of H = 450 mm, either tiltable or fixed
- Separate wiring module of H = 250 mm, can optionally be replaced by partition panels
- The wiring module can be equipped with a cable duct for crosswiring
- All doors come as standard with 3 mm two-way keybit locks

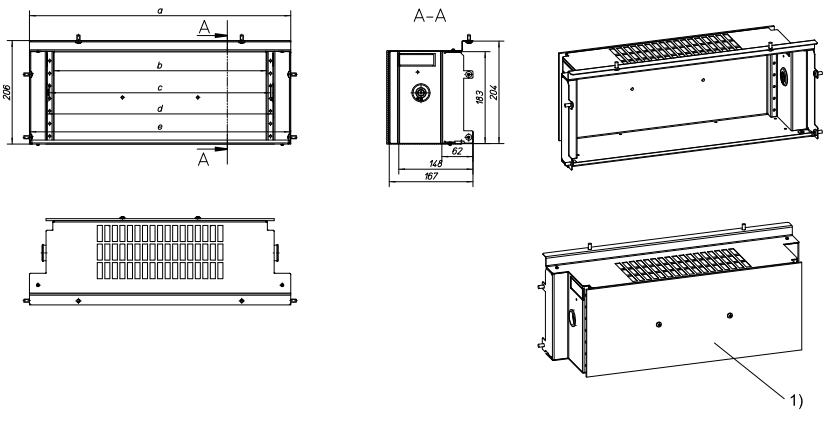


2xNZM4_SbS



Wiring module

- With the main busbar at the top or bottom - depending on the application - the wiring module can be mounted in front of the main busbar. Where necessary, the module can be equipped with an additional DIN rail so as to be able to conveniently accommodate electrical components with a DIN rail fixing. The module also offers the possibility to install a cable duct for any control wiring/cross-wiring of the system. The cable duct itself is made of plastic-coated metal.
  Various holes or pre-punched areas are included both in the cable duct and in the wiring module to ensure convenient wiring of the system.

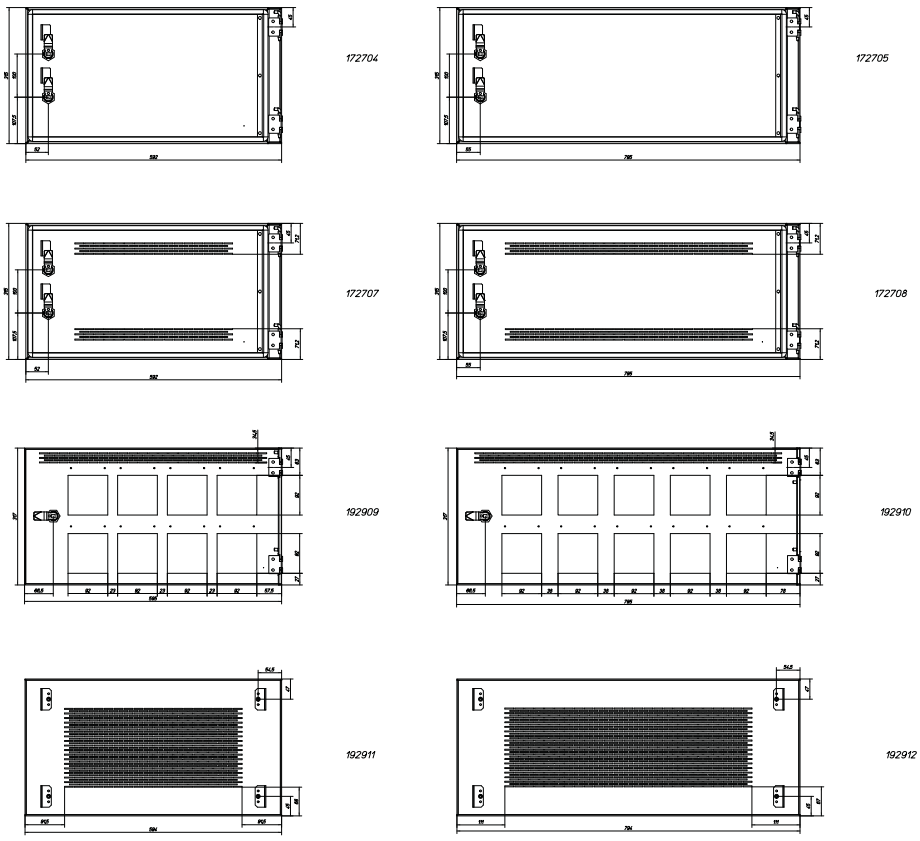


XP_AUX_Compartment

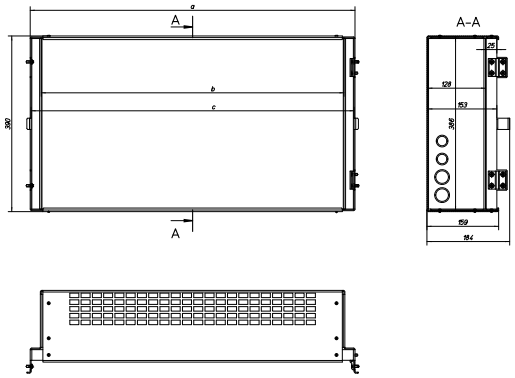
	a	b	c	d	e
W425	345	250	265	277	343
W600	520	425	440	452	518
W800	720	625	640	652	718
W1000	920	825	840	852	918
W1100	1020	925	940	952	1018
W1200	1120	1025	1040	1052	1118
W1350	1270	1175	1190	1202	1268

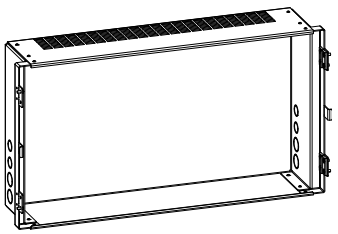
1) Additional insulating partition at the rear

Dimensions wiring module:



DF_Busbar Chamber Filler





XP_Measuring module

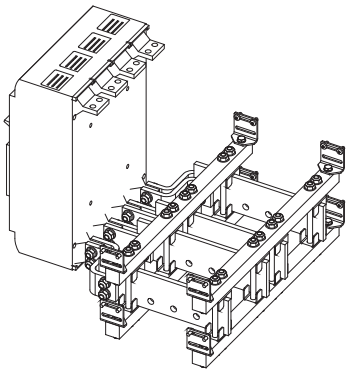
	a	b	c
W425	346	297	342
W600	521	472	517
W800	721	672	717

Measuring module

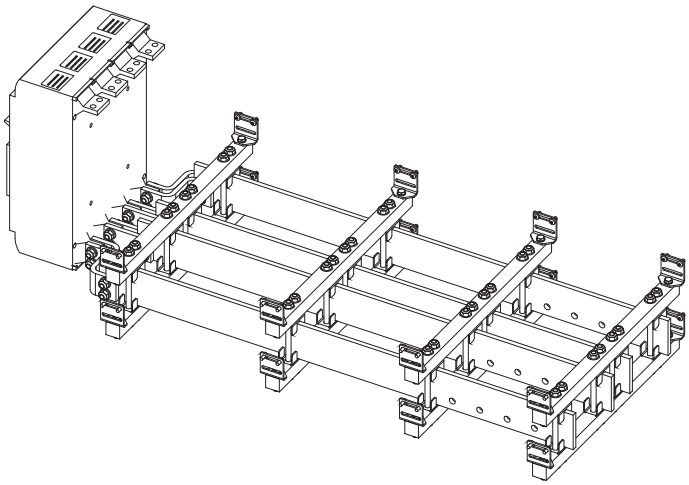
- The measuring module is mounted directly above the circuit breaker. Where necessary, the module can be equipped with DIN rails, larger devices and meters can directly be fixed at the rear panel of the module. Optionally, the module can either be installed in a fixed way or it can be fixed in the cabinet using the hinges included in the mounting kit. Using the hinges provides optimal access to the measuring transformers placed behind the module in case of inspections or whenever else access is required.
  Pre-punched areas that can be used for control wiring will make it easier to do the jobs when mounting the system.

Cable connection

- Cable connection is done in a cost-saving way, directly at flat copper rails horizontally placed in the cabinet, which optionally run from the back of the switch to the rear panel of the cabinet. If more space is required for connection cables, connecting rails can be run under the switch, so the entire section depth of the cabinet will be available. If this is still not sufficient, there is a possibility to add an extra section at the rear and to run the rail connection system across both sections.



Single-NZM4



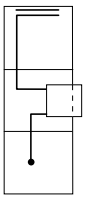
Power Loss NZM4

I_n	Power Loss at I_n **fixed installation**	Power Loss at I_n **withdrawable**
A	W	W
800	-	-
1000	-	-
1250	-	-
1600	284	77

Short-Circuit Strength for Circuit Breakers NZM4

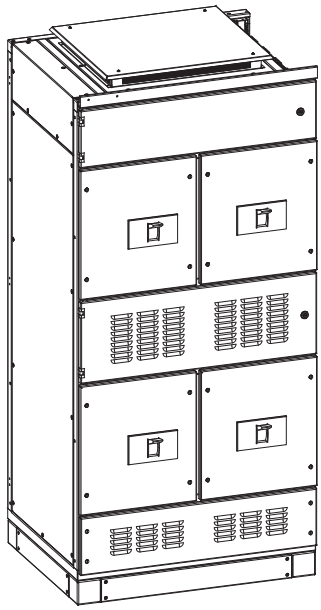
Circuit breaker	Installation type	Cross-section of the copper bar system	I_e up to	Category of breaking capacity	Short-circuit strength at 400 V AC			
					I_{cw}	I_{cc} at 415 V	I_{cc} at 480 V	I_{cc} at 690 V
			A		kA	kA	kA	kA
NZM4	Fixed, withdrawable	1 x 50 x 10	1200	N	19.2	65	50	50
		2 x 50 x 10	1600	H	19.2	65	50	50

Current Load for Circuit Breaker NZM4, designed as Side/Side solution

Configuration	Circuit breaker	Installation type	I_e up to	Degree of protection	Admitted permanent current I depending on the ambient temperature and the degree of protection of the distribution sections		
			A		25 °C A	35 °C A	50 °C A
	NZM4	Fixed, withdrawable	1250	IP31	-	1200	1036
				IP42	-	1200	1036
				IP55	-	1036	895
			1600	IP31	-	1420	1226
				IP42	-	1420	1226
				IP55	-	1226	1059

00122507_0

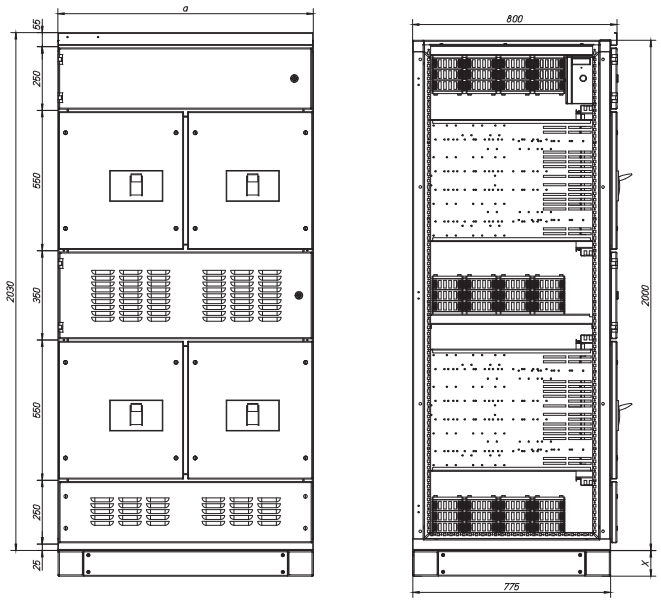
XP Power Sections for 2x2x MCCB (Side/Side/Stacked) of the NZM4 series from 800 to 1600 A



4xNZM4

For NZM4 module circuit breakers:

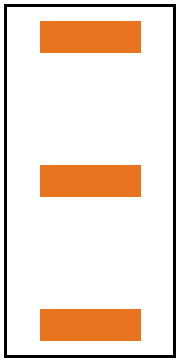
- In fixed design
- In withdrawable design
- In 3-pole, 4-pole or as a 3P+N version
- Can be combined with a motor drive
- Can be combined with a rotary drive
- Can be combined with a mechanical lock
- Can be used as a feeder, outgoing or coupler switch
- Fitting kits/covers for IP31/IP42/IP55



4xNZM4

Dimensions

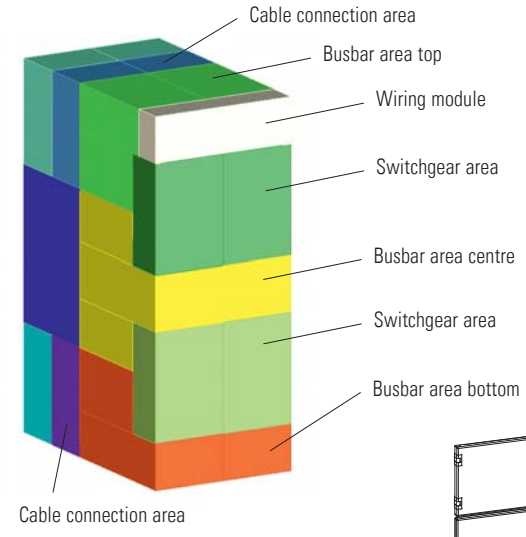
- Section depth: 800 mm
  In addition, you can add a cable guidance cabinet at the back of the XP section
- Section width (a): 425, 600 mm
- Section height: 2000 mm, optionally with a plinth (x) of 100 or 200 mm



Stacked_Cu_Schematik_1

Main busbar

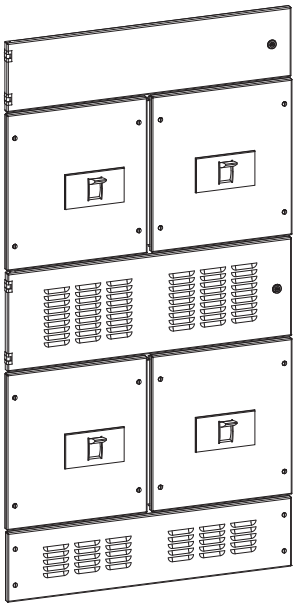
- Positions possible: top, center, bottom
- From 1x30/10 up to max 12x30/10 Cu



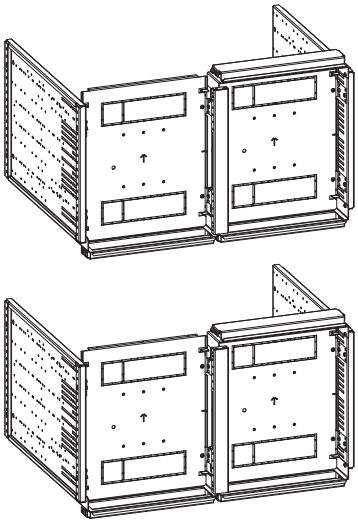
XP_Funktionsraeume_4x_stacked

Layout and internal separation up to Form 4/Type 7

- Ready-to-install partition panels for section equipment up to Form 4/Type 7
- Clear division of functional areas
- Operation of the switch from outside
- Wiring module with H = 250 mm in front of the main busbars at the top or bottom, optionally it can be replaced by a partition panel
- The wiring module can be equipped with a cable duct for crosswiring
- all doors come as standard with 3 mm two-way keybit locks

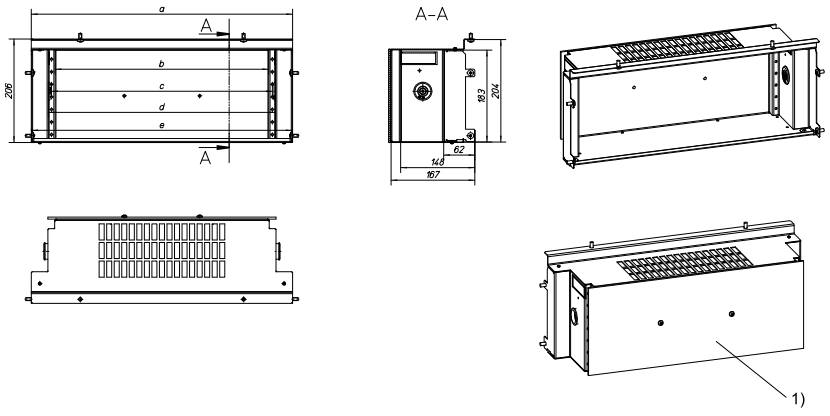


4xNZM4



Wiring module

- With the main busbar at the top or bottom - depending on the application - the wiring module can be mounted in front of the main busbar. Where necessary, the module can be equipped with an additional DIN rail so as to be able to conveniently accommodate electrical components with a DIN rail fixing. The module also offers the possibility to install a cable duct for any control wiring/cross-wiring of the system. The cable duct itself is made of plastic-coated metal.
  Various holes or pre-punched areas are included both in the cable duct and in the wiring module to ensure convenient wiring of the system.

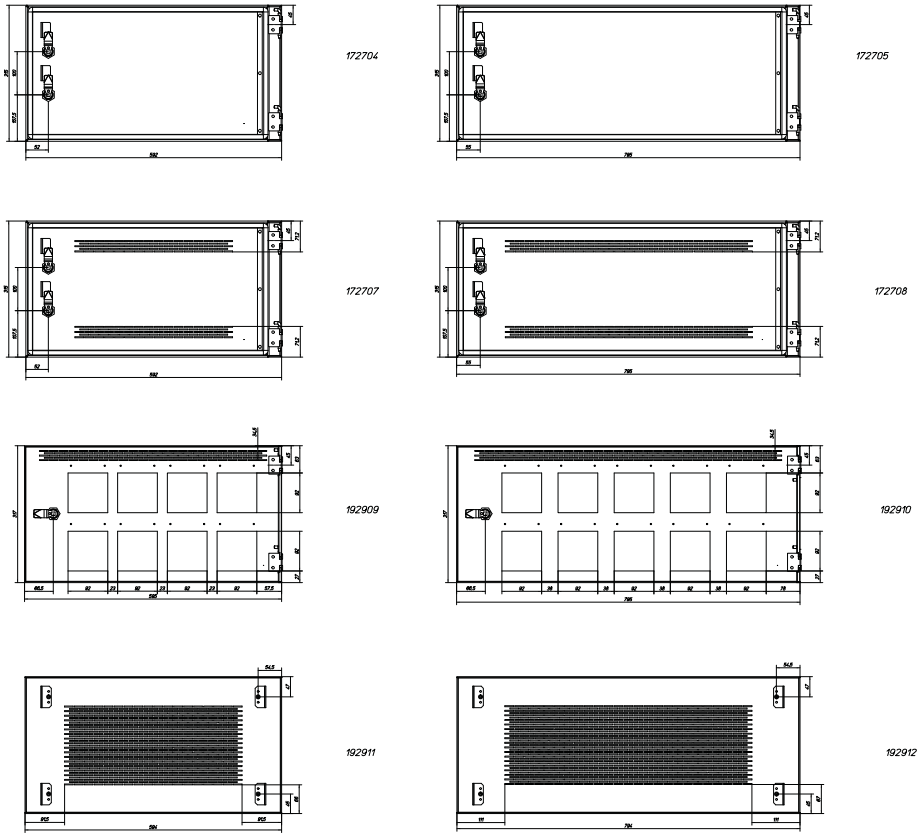


XP_AUX_Compartment

	a	b	c	d	e
W425	345	250	265	277	343
W600	520	425	440	452	518
W800	720	625	640	652	718
W1000	920	825	840	852	918
W1100	1020	925	940	952	1018
W1200	1120	1025	1040	1052	1118
W1350	1270	1175	1190	1202	1268

1) Additional insulating partition at the rear

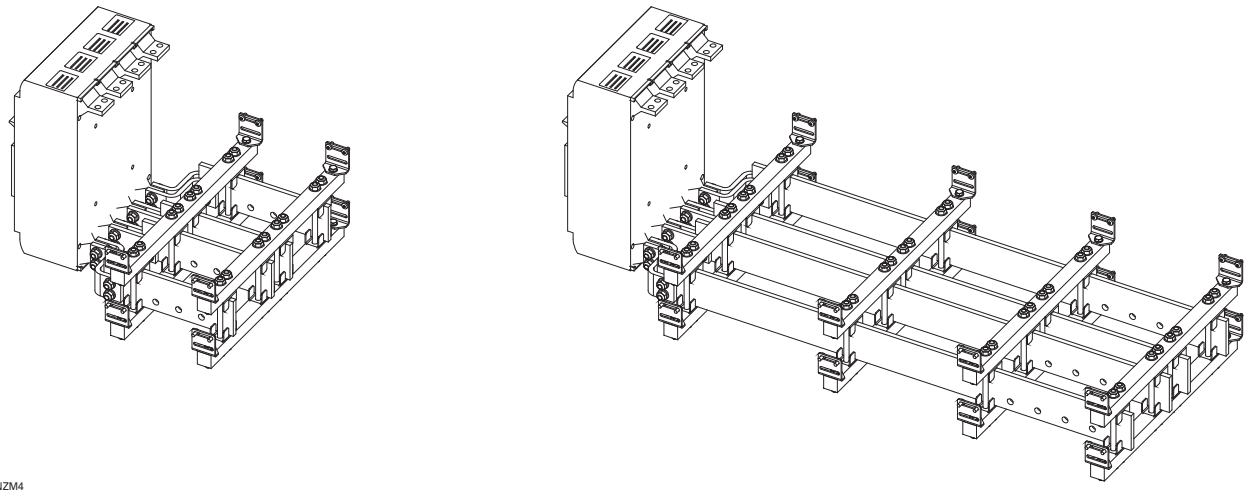
Dimensions wiring module:



DF_Busbar Chamber Filler

Cable connection

- Cable connection is done in a cost-saving way, directly at flat copper rails horizontally placed in the cabinet, which run from the back of the switch to the rear panel of the cabinet. Connection cables run in the cable connection section which must always be installed when a Stacked ACBs solution is used. Should the Cu connection system not provide sufficient space to accommodate all connection cables of the connection system, it is possible to run the bar connection system across both sections and to increase the connection area that way.



Single-NZM4

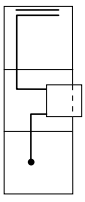
Power Loss NZM4

I_n	Power Loss at I_n **fixed installation**	Power Loss at I_n **withdrawable**
A	W	W
800	-	-
1000	-	-
1250	-	-
1600	284	77

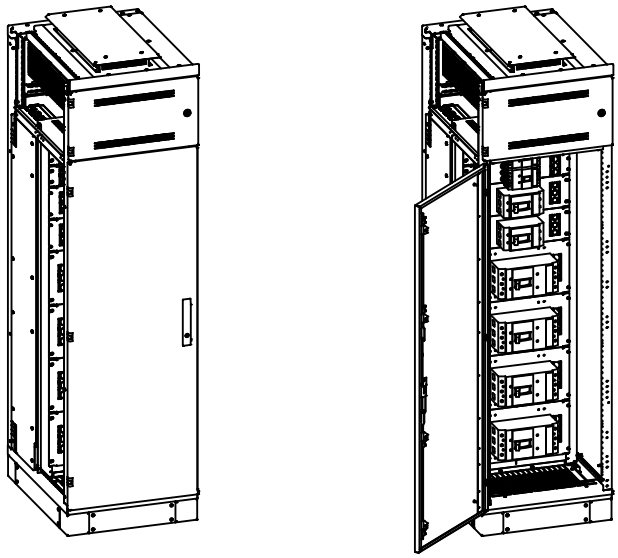
Short-Circuit Strength for Circuit Breakers NZM4

Circuit breaker	Installation type	Cross-section of the copper bar system	I_e up to	Category of breaking capacity	Short-circuit strength at 400 V AC			
					I_{cw}	I_{cc} at 415 V	I_{cc} at 480 V	I_{cc} at 690 V
			A		kA	kA	kA	kA
NZM4	Fixed, withdrawable	1 x 50 x 10	1200	N	19.2	65	50	50
		2 x 50 x 10	1600	H	19.2	65	50	50

Current Load for Circuit Breaker NZM4, designed as Stacked solution

Configuration	Circuit breaker	Installation type	I_e up to	Degree of protection	Admitted permanent current I depending on the ambient temperature and the degree of protection of the distribution sections		
			A		25 °C A	35 °C A	50 °C A
 00122507_0	NZM4	Fixed, withdrawable	1250	IP31	-	930	803
				IP42	-	930	803
				IP55	-	803	761

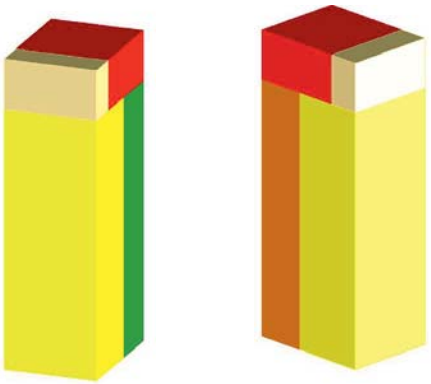
XF Outgoing Sections for Fixed Modules up to 630 A, Form 2



XF_Uebersicht

Description of the sections

- Section width 600 mm, with an additional cable connection area at the side for section widths of = 800/1000 mm
- For compact circuit breakers of the NZM 1-3 series in 3-pole, 4-pole and 3P+N version
- In horizontal mounting position
- Wiring module of H = 325 mm in front of the main busbar, can optionally be replaced by a partition panel
- Internal separation up to Form 2
- On the incoming side, connection is done on a vertically arranged dropper bar system (see instructions). In the rear area of the cabinet, the system of bars is aligned in parallel with the side panel. The dropper bar system is covered with panels and therefore shock-proof.
- With a door across the entire switchgear area; if a cable connection area is installed at the side, it will also be covered with the same door (switchgear area and cable connection area).
- Operation of the switchgear optionally behind the door or from outside with an extension shaft and a rotary door coupling handle.
- Can be configured with an additional cable connection area at the side (in width 800 or 1000 mm)
- Even with a cable connection area at the side, there is only one shared wiring module

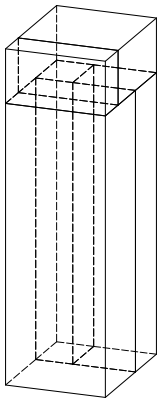


XF_Funktionsraeume_BBT_a

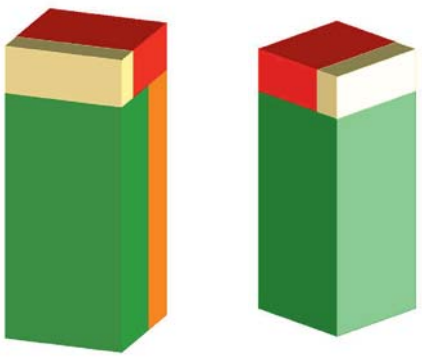
Internal separation/Layout of functional areas in section width of 600 mm

Functional XF areas left
B600

Yellow: Switchgear area
Green: Cable area
Ochre: Metering compartment
Red: Main busbar area
Orange: Dropper bar



XF_Funktionsraeume_BBT_b

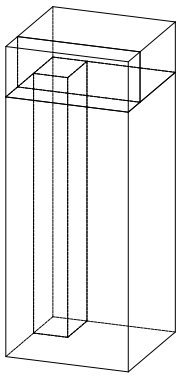


XF_Funktionsraeume_2b_a

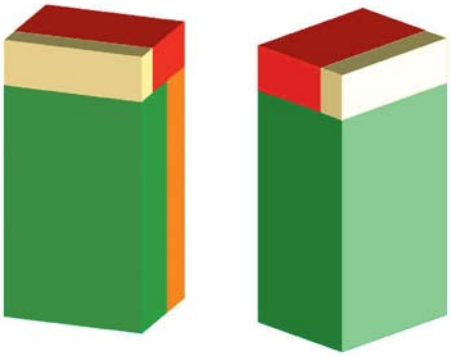
Internal separation/Layout of functional areas in section width of 800 mm

Functional XF areas 2b left
B800

Yellow: Switchgear and cable area
Ochre: Metering compartment
Red: Main busbar area
Orange: Dropper bar



XF_Funktionsraeume_2b_b



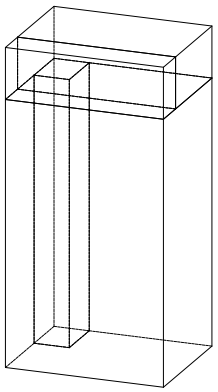
XF_Funktionsraeume_2b_1000_a

Internal separation/Layout of functional areas in section width of 1000 mm

Functional XF areas 2b left

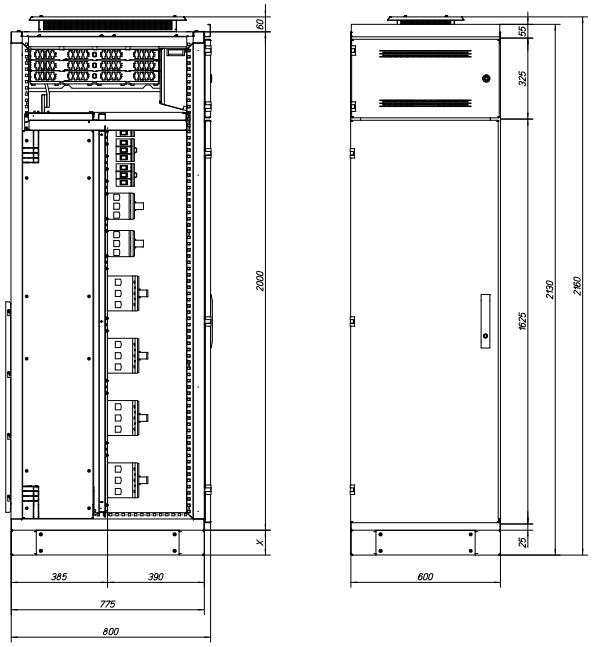
B1000

Green: Cable area
Ochre: Metering compartment
Red: Main busbar area
Orange: Dropper bar



XF_Funktionsraeume_2b_1000_b

W600



XF_2b_Katalog_1_W600

Dimensions

- Section width: 600 mm
- Section depth: 800 mm
  In addition, you can add a cable guidance cabinet at the back of the XP section
- Section height: 2000 mm, optionally with a plinth (x) of 100 or 200 mm

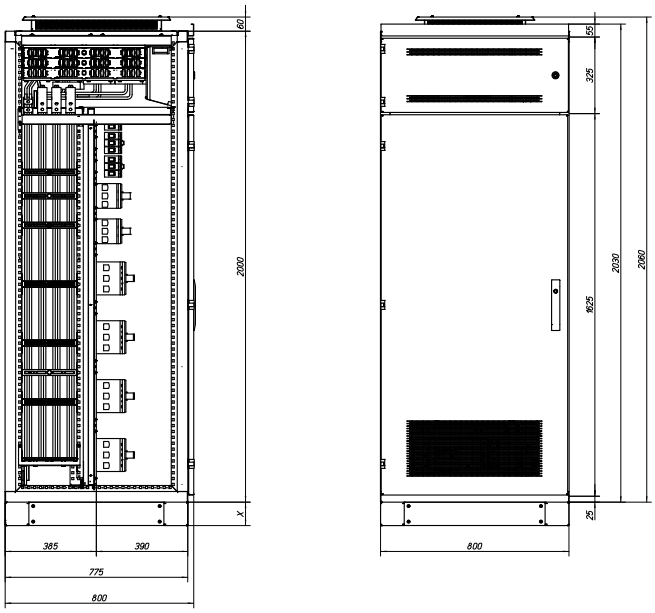
Switchgear area

- Module width = 600 mm
- Max. installation area available: H = 1600 mm
- Max. installation depth available: D = 390 mm
- All modules are arranged on the same level
- All of the installation modules combinable with BBT are marked in colours in the "Individual components" chapter
- A separation of functional areas (switchgear area/cable connection area) for structural reasons only exists for a cabinet width of 600 mm

Cable connection area at the rear

- Width = 370 mm
- Depth = 385 mm
- Cable connection is done at the rear of the system and can be carried out in different ways:
  - With connection at the rear (accessories of NZM circuit breakers); for insulating the rear connection contacts you can use different grommets, shrink sleeves etc.
  - Additional terminal points at the rear of the mounting plate are provided for (e.g. with K150 terminals or terminal blocks, depending in the strength and cross-section of the connection cables) to connect the outgoing cables
  - A separation of functional areas (switchgear area/cable connection area) only exists for a cabinet width of 600 mm and is due to structural reasons of the mounting plate

W800



XF_2b_W800

Dimensions

- Section width: 800 mm
- Section depth: 800 mm
  In addition, you can add a cable guidance cabinet at the back of the XP section
- Section height: 2000 mm, optionally with a plinth (x) of 100 or 200 mm

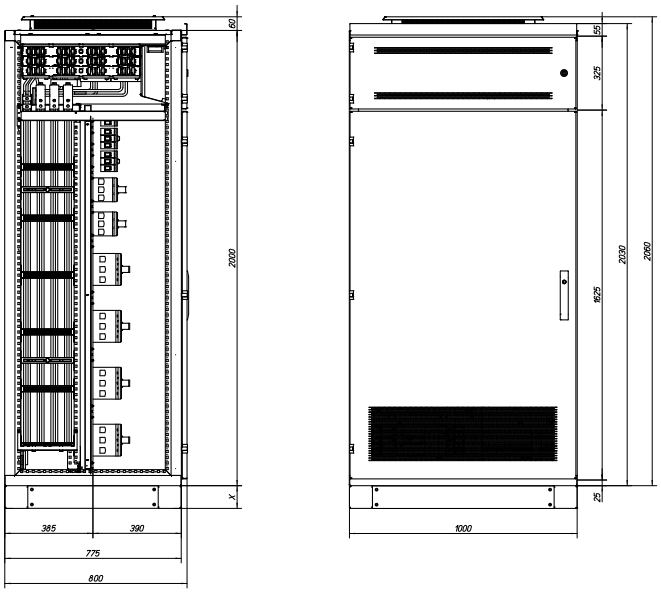
Switchgear area

- Module width = 600 mm
- Max. installation area available: H = 1600 mm
- Max. installation depth available: D = 445 mm
- All modules are arranged on the same level
- All of the installation modules combinable with BBT are marked in colours in the "Individual components" chapter
- No separation of the functional areas switchgear area/cable connection area

Cable connection area at the rear

- Width = 370 mm
- Depth = 385 mm
- No separation of the functional areas switchgear area/cable connection area
- Cable connection is done at the rear of the system and can be carried out in different ways:
  - With connection at the rear (accessories of NZM circuit breakers); for insulating the rear connection contacts you can use different grommets, shrink sleeves etc.
  - Additional terminal points at the rear of the mounting plate are provided for (e.g. with K150 terminals or terminal blocks, depending in the strength and cross-section of the connection cables) to connect the outgoing cables
  - Connection cables can directly be connected to the terminals of the switchgear, there is no additional terminal necessary

W1000



XF_2b_W1000

Dimensions

- Section width: 1000 mm
- Section depth: 800 mm
  In addition, you can add a cable guidance cabinet at the back of the XP section
- Section height: 2000 mm, optionally with a plinth (x) of 100 or 200 mm

Switchgear area

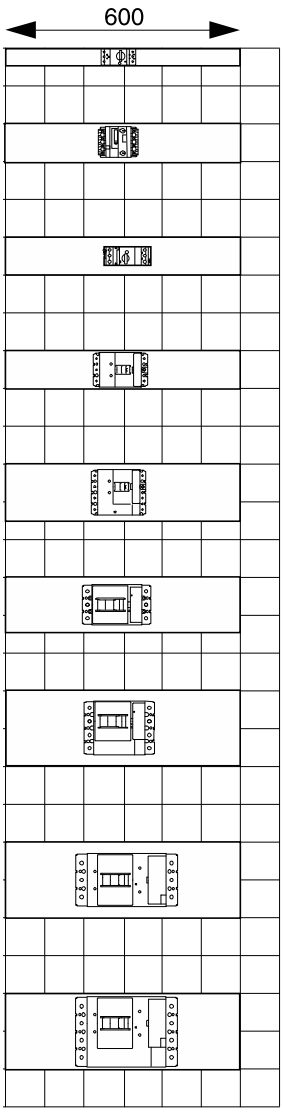
- Module width = 600 mm
- Max. installation area available: H = 1600 mm
- Max. installation depth available: D = 445 mm
- All modules are arranged on the same level
- All of the installation modules combinable with BBT are marked in colours in the "Individual components" chapter
- No separation of the functional areas switchgear area/cable connection area

Cable connection area at the rear

- Width = 570 mm
- Depth = 385 mm
- No separation of the functional areas switchgear area/cable connection area
- Cable connection is done at the rear of the system and can be carried out in different ways:
  - With connection at the rear (accessories of NZM circuit breakers); for insulating the rear connection contacts you can use different grommets, shrink sleeves etc.
  - Additional terminal points at the rear of the mounting plate are provided for (e.g. with K150 terminals or terminal blocks, depending in the strength and cross-section of the connection cables) to connect the outgoing cables
  - Connection cables can directly be connected to the terminals of the switchgear, there is no additional terminal necessary

XF Outgoing Sections (fixed design) - module heights and equipment: Installation of switchgear in a horizontal way only

Module width



fk4810-1143d_13_13_1A4

Motor protective switch up to **32 A**
Type PKZM0, 2 U = 50 mm

Motor protective switch up to **40 A**

Motor protective switch up to **63 A**
Type PKZM4, 4 U = 100 mm

Circuit breaker up to **160 A, 3-pole**
Type NZM1, 4 U = 100 mm

Circuit breaker up to **160 A, 4-pole**
Type NZM1, 6 U = 150 mm

Circuit breaker up to **300 A, 3-pole**
Type NZM2, 6 U = 150 mm

Circuit breaker up to **300 A, 4-pole**
Type NZM2, 8 U = 200 mm

Circuit breaker up to **630 A, 3-pole**
Type NZM3, 8 U = 200 mm

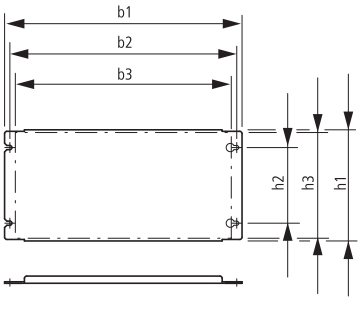
Circuit breaker up to **630 A, 4-pole**
Type NZM3, 10 U = 250 mm

Modules

- Width of mounting plates = 600 mm
- Mounting plates prepared for NZM series
- All of the installation modules combinable with BBT are marked in colours in the "Individual components" chapter

General mounting plates

General mounting plates are available from H = 50 mm up to H = 1200 mm

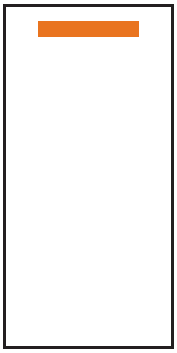


00163815_0

	h1	b1	h2	b2	h3	b3
XME0206M	47	489	25	475	40	458
XME0406M	97	489	50	475	90	458
XME0606M	147	489	100	475	140	458
XME0806M	197	489	150	475	190	458
XME1006M	247	489	200	475	240	458
XME1206M	297	489	250	475	290	458
XME1406M	347	489	300	475	340	458
XME1606M	397	489	250	475	390	458
XME2006M	497	489	450	475	490	458
XME2406M	597	489	550	475	590	458
XME3206M	797	489	750	475	790	458
XME3806M	947	489	900	475	940	458
XME4006M	997	489	950	475	990	458
XME4806M	1197	489	1150	475	1190	458

xEnergy Main Switchboards

XF Outgoing Section



Stacked_Cu_Schematik_2

Main busbar

- Position possitble: top
- From 1x30/10 up to max 12x30/10 Cu

Max. current load and power loss for dropper bars in an XF section

Dropper bar:
Center-to-center distance between phases = 60 mm
Rated current I_n = up to 2000 A
Rated short-time withstand current I_{cw} = up to 80 kA

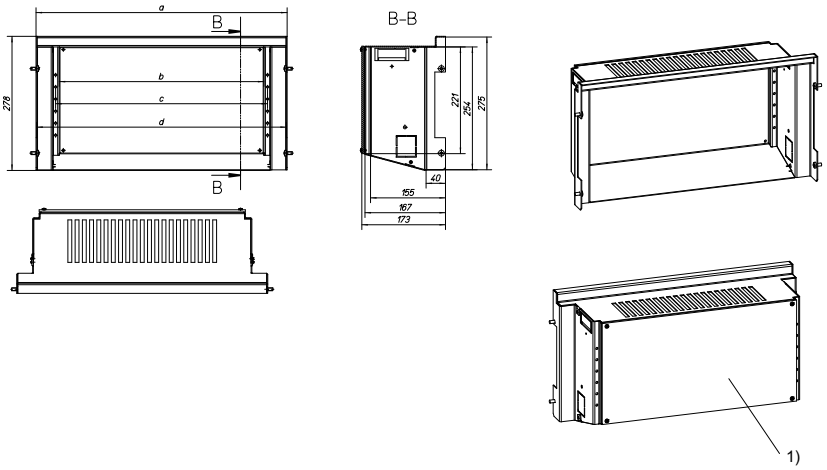
I_e up to	Busbar cross-section	Degree of protection	Admitted permanent current I depending on the ambient temperature and the degree of protection of the distribution sections			Power loss P_v		
A	mm²		25 °C A	35 °C A	50 °C A	25 °C W/m	35 °C W/m	50 °C W/m
1600	2 x 40 x 10	IP31 with ventilated top cover	1730	1600	1400	98	84	64
		IP31 with closed top cover	1330	1300	1250	58	56	51
		IP42 with ventilated top cover	1730	1600	1400	98	84	64
		IP42 with closed top cover	1330	1300	1250	58	56	51
		IP55	1330	1300	1250	58	56	51
2000	2 x 60 x 10	IP31 with ventilated top cover	2130	2000	1800	105	92	75
		IP31 with closed top cover	1940	1820	1640	87	76	62
		IP42 with ventilated top cover	1960	1900	1800	89	83	75
		IP42 with closed top cover	1820	1775	1700	76	73	67
		IP55	1680	1650	1600	65	63	59

Short-circuit strength for dropper bars in an XF section

I_e up to	Busbar cross-section	Short-circuit strength	Max. distance between busbar supports center-to-center
A	mm²	kA	mm
1600	2 x 40 x 10	35 / 1s	375
		50 / 1s	275
		65 / 1s	250
2000	2 x 60 x 10	35 / 1s	375
		50 / 1s	275
		65 / 1s	250
		80 / 1s	200
		50 / 3s	200

Wiring module

- The wiring module is mounted in front of the main busbar.
  Where necessary, the module can be equipped with an additional DIN rail so as to be able to conveniently accommodate electrical components with a DIN rail fixing. The module also offers the possibility to install a cable duct for any control wiring/cross-wiring of the system. The cable duct itself is made of plastic-coated metal.
  Various holes or pre-punched areas are included both in the cable duct and in the wiring module to ensure convenient wiring of the system.
  The rear of the module is planked with an additional insulating partition of 3 mm (see fig. 1).

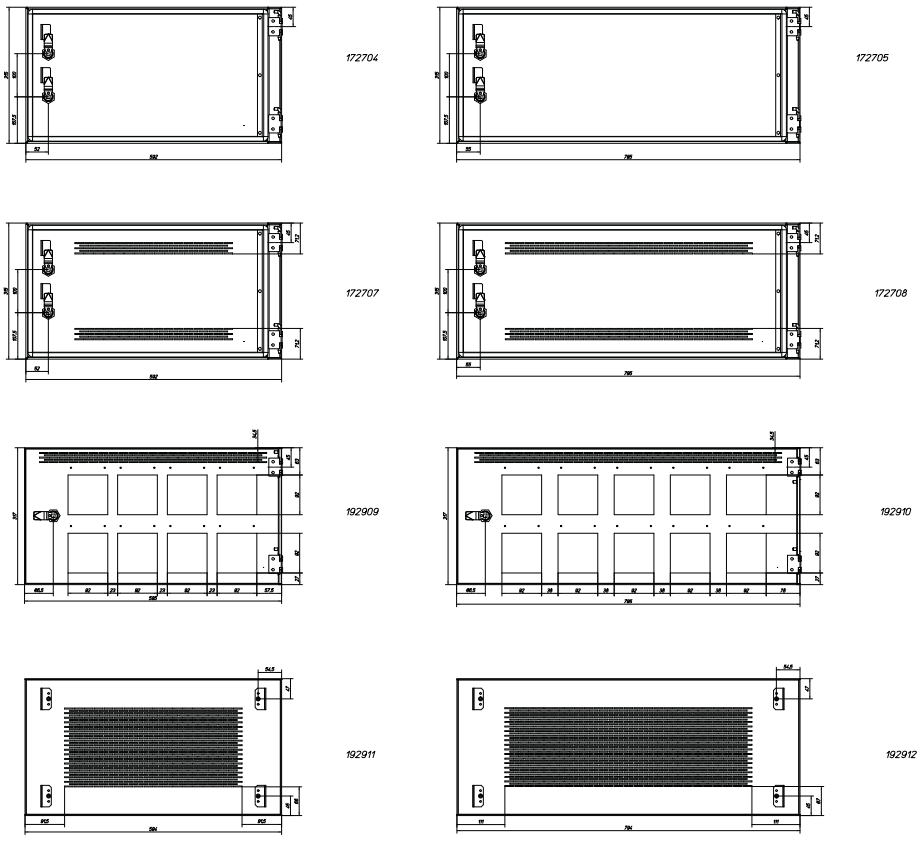


Metering_compartment_RearAccess_ASSEM_H250

1) Additional insulating partition at the rear

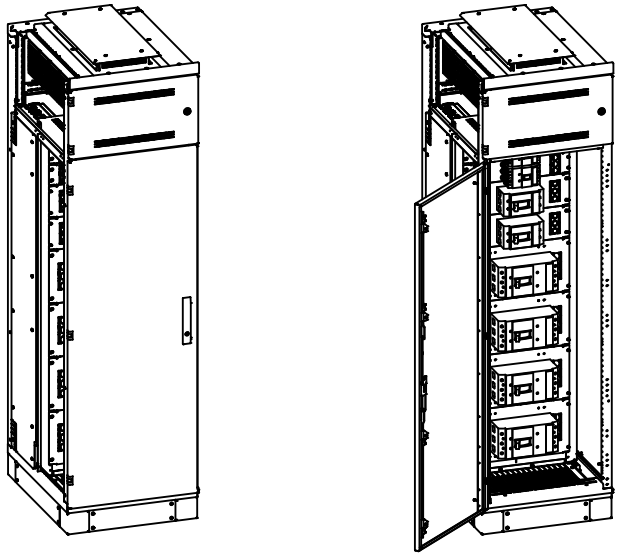
	a	b	c	d
W600	520	424	439	517
W800	720	624	639	717
W1000	920	824	839	817

Dimensions wiring module:



DF_Busbar Chamber Filler

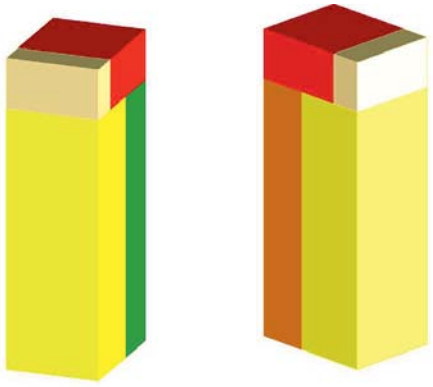
XF Outgoing Sections for Fixed Modules up to 630 A, Form 4 / up to Type 7



XF_Uebersicht

Description of the sections

- Section width 600 mm, with an additional cable connection area at the side for section widths of = 800/1000 mm
- For compact circuit breakers of the NZM 1-3 series in 3-pole, 4-pole and 3P+N version
- In horizontal mounting position
- Wiring module of H = 325 mm in front of the main busbar, can optionally be replaced by a partition panel
- Internal separation up to Form 4 / up to Type 7
- On the incoming side, connection is done on a vertically arranged dropper bar system (see instructions). In the rear area of the cabinet, the system of bars is aligned in parallel with the side panel. The dropper bar system is covered with panels and therefore shock-proof.
- With a separate door across the entire switchgear area; if a cable connection area is installed at the side, it will be closed with a separate door.
- Operation of the switchgear behind the door
- Door to switchgear area optionally also available in glass
- Can be configured with an additional cable connection area at the side
- Even with a cable connection area at the side, there is only one shared wiring module

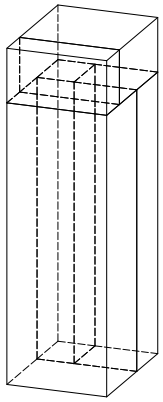


XF_Funktionsraeume_BBT_a

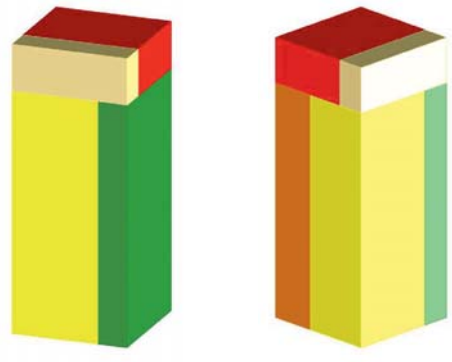
Internal separation/Layout of functional areas in section width of 600 mm

Functional XF areas left
B600

Yellow: Switchgear area
Green: Cable area
Ochre: Metering compartment
Red: Main busbar area
Orange: Dropper bar



XF_Funktionsraeume_BBT_b

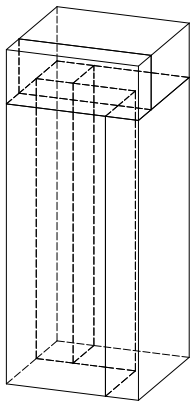


XF_Funktionsraeume_4b_a

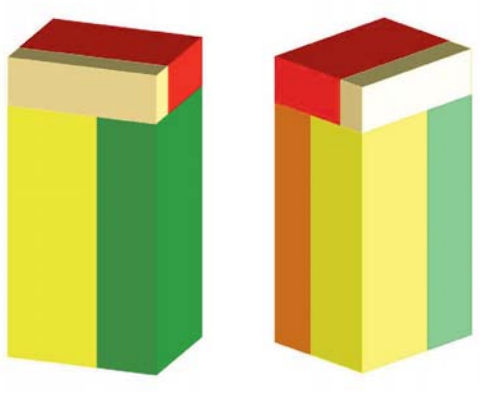
Internal separation/Layout of functional areas in section width of 800 mm

Functional 4b XF areas left
B800

Yellow: Switchgear area
Green: Cable area
Ochre: Metering compartment
Red: Main busbar area
Orange: Dropper bar



XF_Funktionsraeume_4b_b

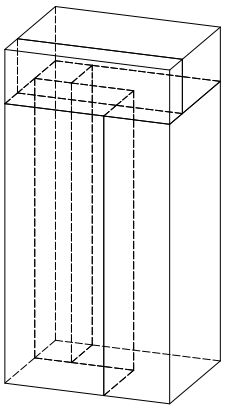


XF_Funktionsraeume_4b_1000_a

Internal separation/Layout of functional areas in section width of 1000 mm

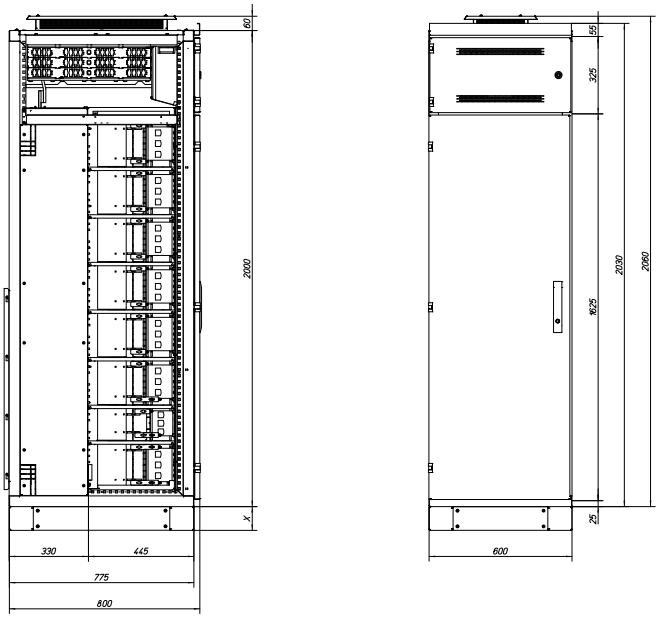
Functional 4b XF areas left
B1000

Yellow: Switchgear area
Green: Cable area
Ochre: Metering compartment
Red: Main busbar area
Orange: Dropper bar



XF_Funktionsraeume_4b_1000_b

W600



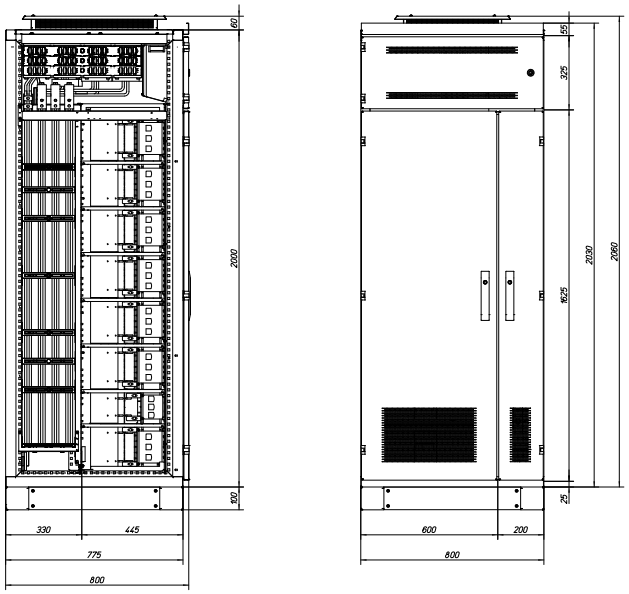
XF_4b_W600_Katalog_1

Dimensions
- Section width: 600 mm
- Section depth: 800 mm
  In addition, you can add a cable guidance cabinet at the back of the XP section
- Section height: 2000 mm, optionally with a plinth (x) of 100 or 200 mm

Switchgear area
- Module width = 600 mm
- Max. installation area available: H = 1600 mm
- Max. installation depth available: D = 445 mm

Cable connection area at the rear
- Width = 370 mm
- Depth = 325 mm

W800



XF_4b_W800_Katalog

Dimensions
- Section width: 800 mm
- Section depth: 800 mm
  In addition, you can add a cable guidance cabinet at the back of the XP section
- Section height: 2000 mm, optionally with a plinth (x) of 100 or 200 mm

Switchgear area
- Module width = 600 mm
- Max. installation area available: H = 1600 mm
- Max. installation depth available: D = 445 mm

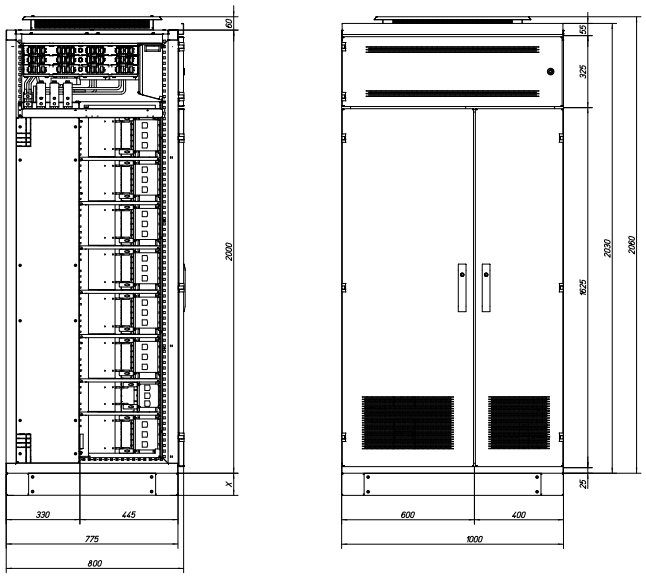
Cable connection area at the rear
- Width = 570 mm
- Depth = 325 mm

Cable connection area at the side
- H = 1600 mm
- B = 200 mm

xEnergy Main Switchboards

XF Outgoing Section

W1000



XF_4b_W1000_Katalog

Dimensions

- Section width: 1000 mm
- Section depth: 800 mm
  In addition, you can add a cable guidance cabinet at the back of the XP section
- Section height: 2000 mm, optionally with a plinth (x) of 100 or 200 mm

Switchgear area

- Module width = 600 mm
- Max. installation area available: H = 1600 mm
- Max. installation depth available: D = 445 mm

Cable connection area at the rear

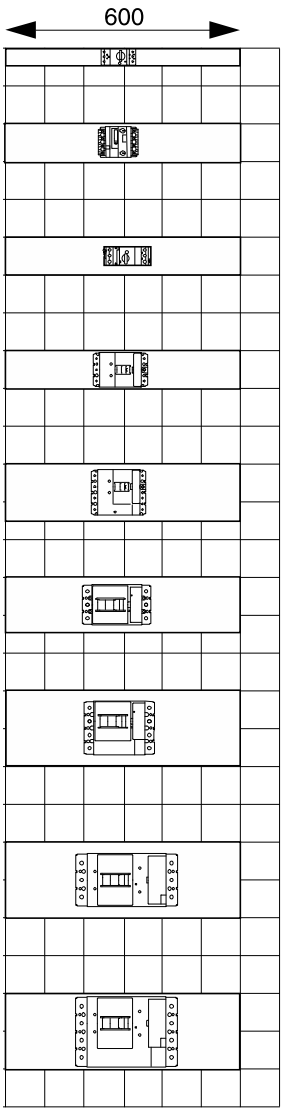
- Width = 570 mm
- Depth = 325 mm

Cable connection area at the side

- H = 1600 mm
- B = 400 mm

XF Outgoing Sections (fixed design) - module heights and equipment: Installation of switchgear in a horizontal way only

Module width



fk4810-1143d_13_13_1A4

Motor protective switch up to **32 A**
Type PKZM0, 2 U = 50 mm

Motor protective switch up to **40 A**

Motor protective switch up to **63 A**
Type PKZM4, 4 U = 100 mm

Circuit breaker up to **160 A, 3-pole**
Type NZM1, 4 U = 100 mm

Circuit breaker up to **160 A, 4-pole**
Type NZM1, 6 U = 150 mm

Circuit breaker up to **300 A, 3-pole**
Type NZM2, 6 U = 150 mm

Circuit breaker up to **300 A, 4-pole**
Type NZM2, 8 U = 200 mm

Circuit breaker up to **630 A, 3-pole**
Type NZM3, 8 U = 200 mm

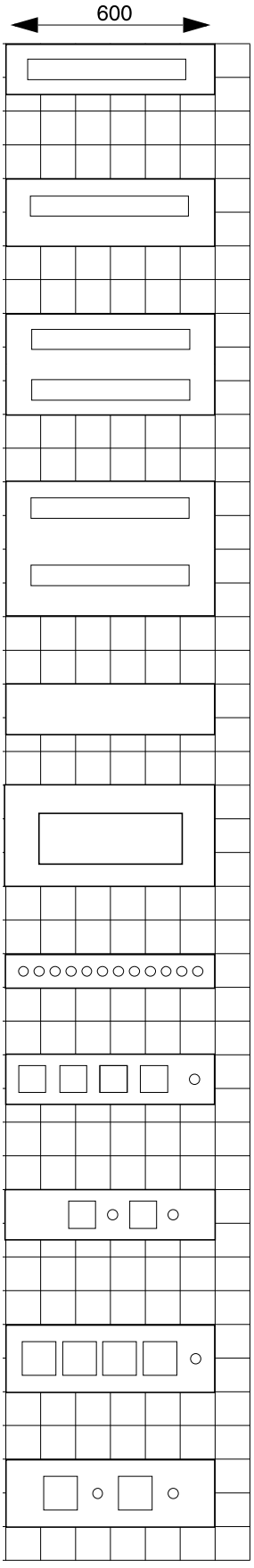
Circuit breaker up to **630 A, 4-pole**
Type NZM3, 10 U = 250 mm

Modules

- Width of mounting plates = 600mm
- Mounting plates prepared for NZM series
- jedes Modul mit eigener Frontplatte
- All of the installation modules combinable with BBT are marked in colours in the “Individual components“ chapter
- Modules for general installation units are available in a height from 50 to 600 mm

XF Outgoing sections - module heights and equipment: Module covers for modular installation devices, measuring and command devices

Module width



fk4810-1143d_13_16A4

Modular installation devices/PKZ...
1 x 12 PE/1 x 24 PE, 6 U = 150 mm

1 x 12 PE/1 x 24 PE, 8 U = 200

2 x 12 PE/2 x 24 PE, 12 U = 300 mm

2 x 12 PE/2 x 24 PE, 16 U = 400 mm

Modules **for connections**
6 U = 150 mm

12 U = 300 mm

Front covers
for **command and signalling devices**
9 x RMQ-Titan/12 x RMQ-Titan, 4 U = 100 mm

for the **installation of measuring devices**
4 x 72 x 72 mm + 1 Umschalter
8 U = 200mm/6 U = 150 mm

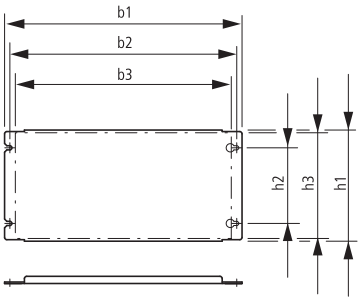
2 x 72 x 72 mm + 2 change-over switches
6 U = 150 mm

4 x 96 x 96 mm + 1 change-over switches
8 U = 200 mm

2 x 96 x 96 mm + 2 change-over switches
8 U = 200 mm

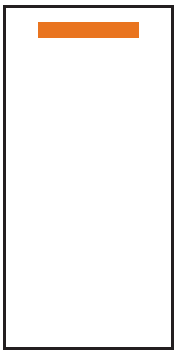
General mounting plates

General mounting plates are available in heights from 50 mm up to 1200 mm



00163815_0

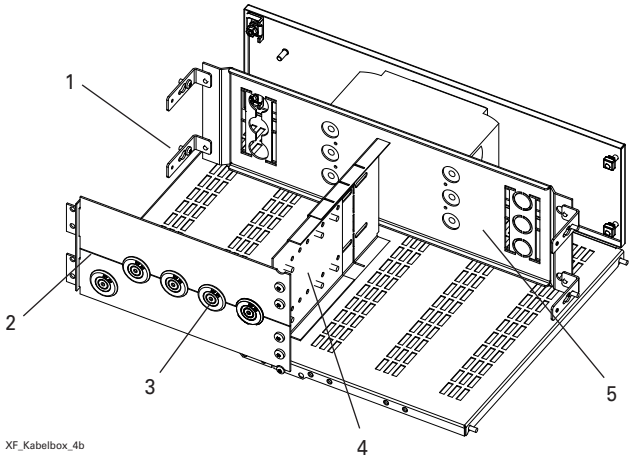
	h1	b1	h2	b2	h3	b3
XME0206M	47	489	25	475	40	458
XME0406M	97	489	50	475	90	458
XME0606M	147	489	100	475	140	458
XME0806M	197	489	150	475	190	458
XME1006M	247	489	200	475	240	458
XME1206M	297	489	250	475	290	458
XME1406M	347	489	300	475	340	458
XME1606M	397	489	250	475	390	458
XME2006M	497	489	450	475	490	458
XME2406M	597	489	550	475	590	458
XME3206M	797	489	750	475	790	458
XME3806M	947	489	900	475	940	458
XME4006M	997	489	950	475	990	458
XME4806M	1197	489	1150	475	1190	458



Stacked_Cu_Schematik_2

Main busbar

- Position possitble: top
- From 1x30/10 up to max 12x30/10 Cu



XF_Kabelbox_4b

Cable Connection Box

- Terminal boxes are located behind the mounting plate. Connection is done on the rear connections at the switches of the NZM series (see accessories for NZM). In case of motor starter combinations the connecting lines will be led from the switchgear area to the terminals placed in the boxes. To close the boxes, modular cover plates are designed in a way to make sure they are easy to mount after connecting the cables. Depending on the size of the module you need to use different cable entries in different sizes.

1 = Connection box
2 = Closing plates
3 = Grommets
4 = Separation panel (dropper bar/terminal box)
5 = Mounting plate

Max. current load and power loss for dropper bars in an XF section

Dropper bar:
Center-to-center distance between phases = 60 mm
Rated current I_n = up to 2000 A
Rated short-time withstand current I_{cw} = up to 80 kA

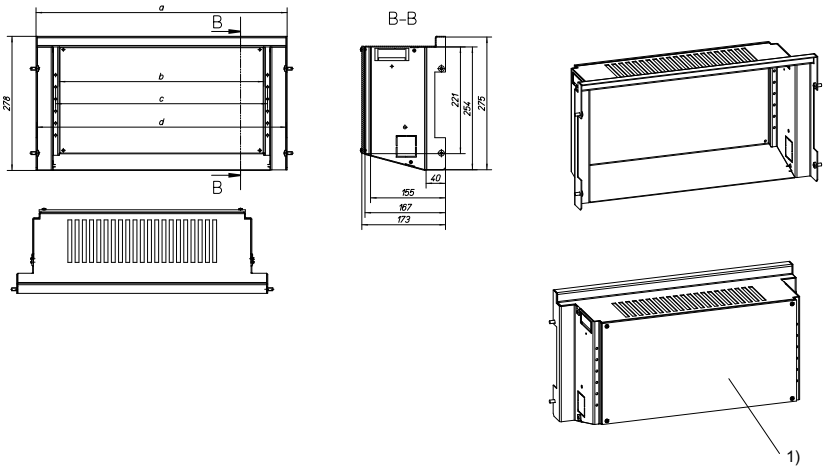
I_e up to	Busbar cross-section	Degree of protection	Admitted permanent current I depending on the ambient temperature and the degree of protection of the distribution sections			Power loss P_v		
A	mm²		25 °C A	35 °C A	50 °C A	25 °C W/m	35 °C W/m	50 °C W/m
1600	2 x 40 x 10	IP31 with ventilated top cover	1730	1600	1400	98	84	64
		IP31 with closed top cover	1330	1300	1250	58	56	51
		IP42 with ventilated top cover	1730	1600	1400	98	84	64
		IP42 with closed top cover	1330	1300	1250	58	56	51
		IP55	1330	1300	1250	58	56	51
2000	2 x 60 x 10	IP31 with ventilated top cover	2130	2000	1800	105	92	75
		IP31 with closed top cover	1940	1820	1640	87	76	62
		IP42 with ventilated top cover	1960	1900	1800	89	83	75
		IP42 with closed top cover	1820	1775	1700	76	73	67
		IP55	1680	1650	1600	65	63	59

Short-circuit strength for dropper bars in an XF section

I_e up to	Busbar cross-section	Short-circuit strength	Max. distance between busbar supports center-to-center
A	mm²	kA	mm
1600	2 x 40 x 10	35 / 1s	375
		50 / 1s	275
		65 / 1s	250
2000	2 x 60 x 10	35 / 1s	375
		50 / 1s	275
		65 / 1s	250
		80 / 1s	200
		50 / 3s	200

Wiring module

- The wiring module is mounted in front of the main busbar.
  Where necessary, the module can be equipped with an additional DIN rail so as to be able to conveniently accommodate electrical components with a DIN rail fixing. The module also offers the possibility to install a cable duct for any control wiring/cross-wiring of the system. The cable duct itself is made of plastic-coated metal.
  Various holes or pre-punched areas are included both in the cable duct and in the wiring module to ensure convenient wiring of the system.
  The rear of the module is planked with an additional insulating partition of 3 mm (see fig. 1).

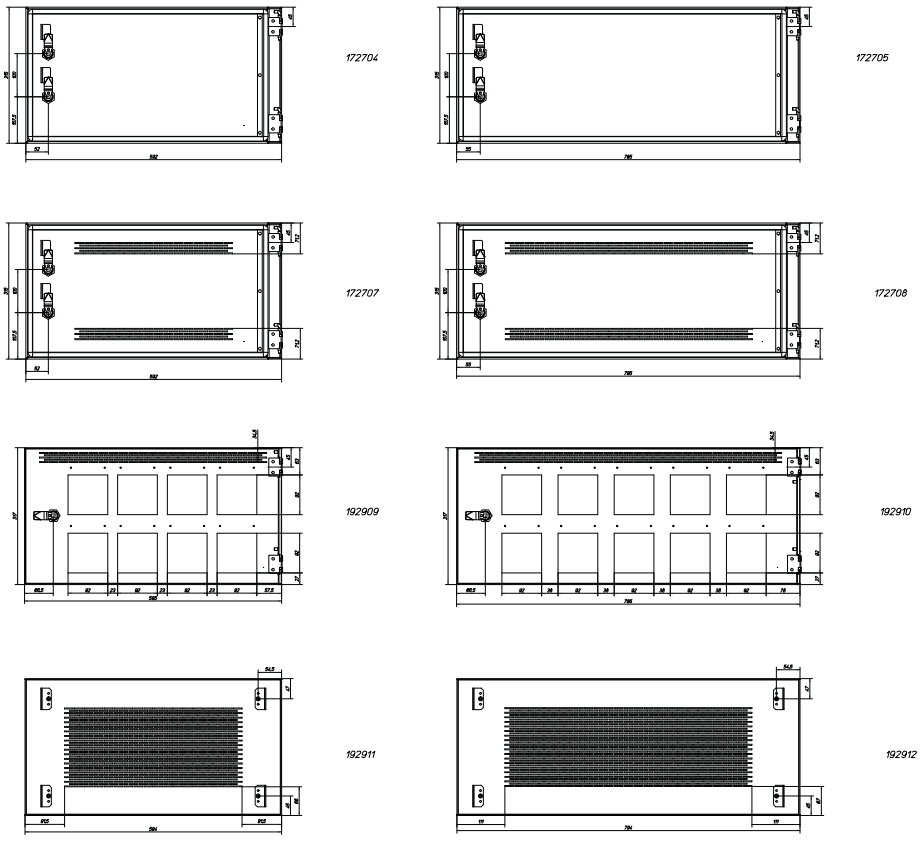


Metering_compartment_RearAccess_ASSEM_H250

1) Additional insulating partition at the rear

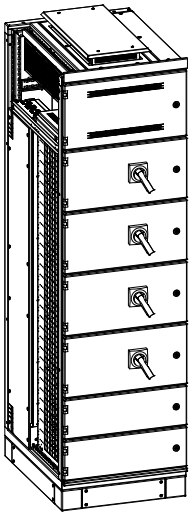
	a	b	c	d
W600	520	424	439	517
W800	720	624	639	717
W1000	920	824	839	817

Dimensions wiring module:

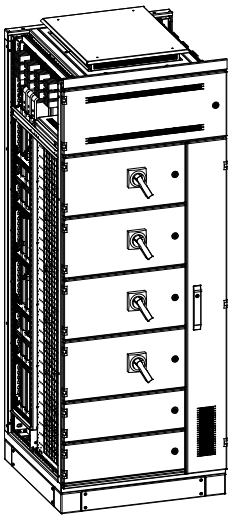


DF_Busbar Chamber Filler

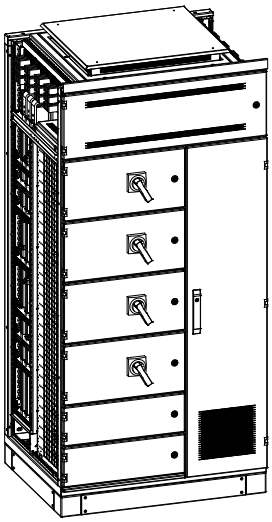
XF Outgoing Section Box Solution up to 630 A, Form 4 / up to Type 7 Motor Control Center in Fixed Design



XF_box solution_0608



XF_box solution_0808

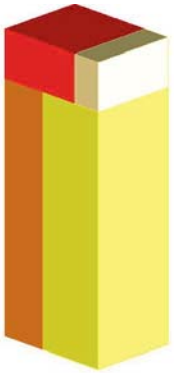


XF_box solution_1008

Description of the sections

- Section width 600 mm, with an additional cable connection area at the side for section widths of = 800/1000 mm
- For compact circuit breakers of the NZM 1-3 series in 3-pole, 4-pole and 3P+N version
- In horizontal mounting position
- Wiring module of H = 325 mm in front of the main busbar, can optionally be replaced by a partition panel
- Internal separation up to Form 4 / up to Type 7
- On the incoming side, connection is done on a vertically arranged dropper bar system (see instructions). In the rear area of the cabinet, the system of bars is aligned in parallel with the side panel. The dropper bar system is covered with panels and therefore shock-proof.
- Each module has its own switchgear area door, if a cable connection area is installed at the side, it will be closed with a separate door
- Operation of the switchgear optionally behind the door or with a rotary door coupling handle
- Can be configured with an additional cable connection area at the side
- Even with a cable connection area at the side, there is only one shared wiring module



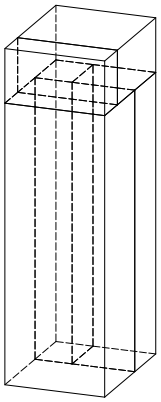


XF_Funktionsraeume_BBT_a

Internal separation/Layout of functional areas in section width of 600 mm

Functional XF areas left
B600

Yellow: Switchgear area
Green: Cable area
Ochre: Metering compartment
Red: Main busbar area
Orange: Dropper bar



XF_Funktionsraeume_BBT_b



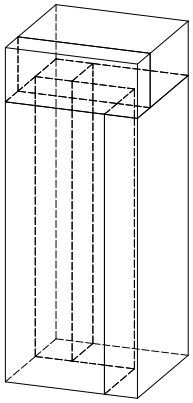


XF_Funktionsraeume_4b_a

Internal separation/Layout of functional areas in section width of 800/1000 mm

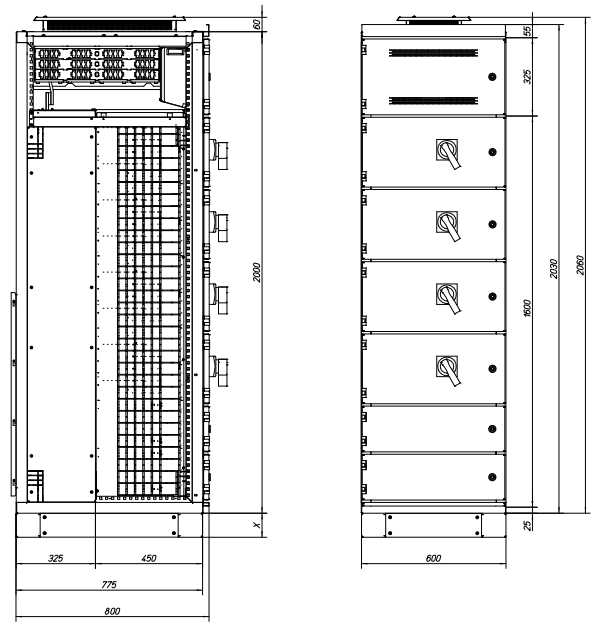
Functional 4b XF areas left
B800/1000

Yellow: Switchgear area
Green: Cable area
Ochre: Metering compartment
Red: Main busbar area
Orange: Dropper bar



XF_Funktionsraeume_4b_b

W600



XF_box solution_0608

Dimensions

- Section width: 600 mm
- Section depth: 800 mm
  In addition, you can add a cable guidance cabinet at the back of the XP section
- Section height: 2000 mm, optionally with a plinth (x) of 100 or 200 mm

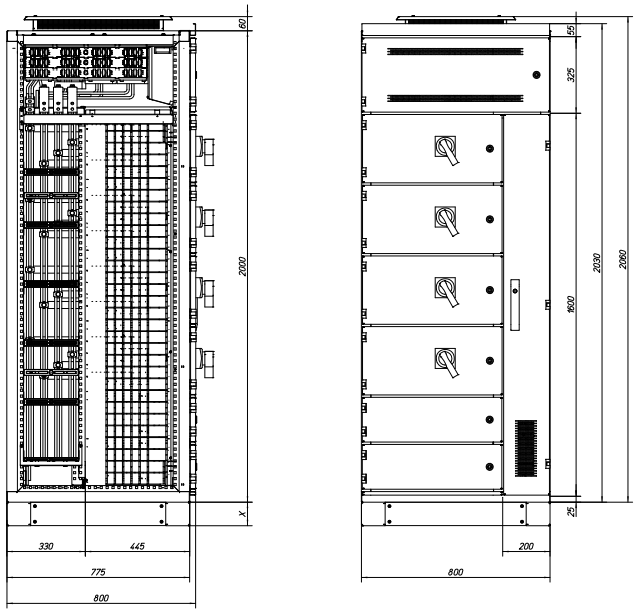
Switchgear area

- Module width = 600 mm
- Max. installation area available: H = 1600 mm
- Max. installation depth available: D = 450 mm

Cable connection area at the rear

- Width = 370 mm
- Depth = 325 mm

W800



XF_box solution_0808

Dimensions

- Section width: 800 mm
- Section depth: 800 mm
  In addition, you can add a cable guidance cabinet at the back of the XP section
- Section height: 2000 mm, optionally with a plinth (x) of 100 or 200 mm

Switchgear area

- Module width = 600 mm
- Max. installation area available: H = 1600 mm
- Max. installation depth available: D = 450 mm

Cable connection area at the rear

- Width = 570 mm
- Depth = 325 mm

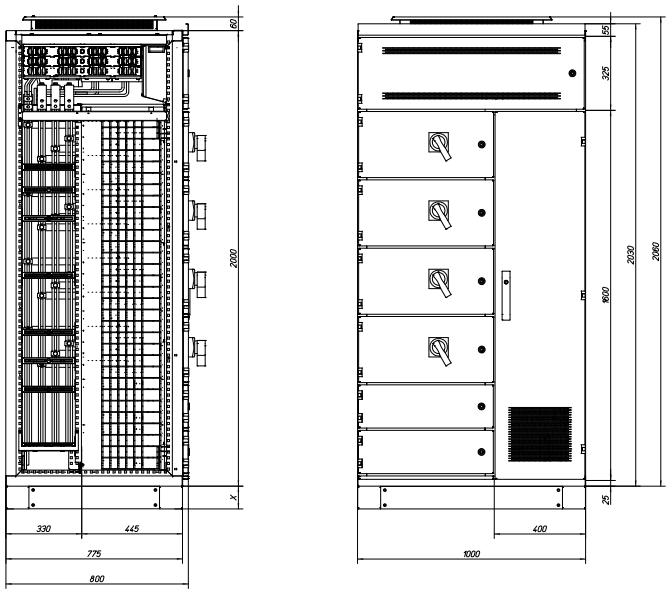
Cable connection area at the side

- H = 1600 mm
- B = 200 mm

xEnergy Main Switchboards

XF Outgoing Section

W1000



XF_box solution_1008

Dimensions

- Section width: 1000 mm
- Section depth: 770 mm
  In addition, you can add a cable guidance cabinet at the back of the XP section
- Section height: 2000 mm, optionally with a plinth (x) of 100 or 200 mm

Switchgear area

- Module width = 600 mm
- Max. installation area available: H = 1600 mm
- Max. installation depth available: D = 450 mm

Cable connection area at the rear

- Width = 370 mm
- Depth = 325 mm

Cable connection area at the side

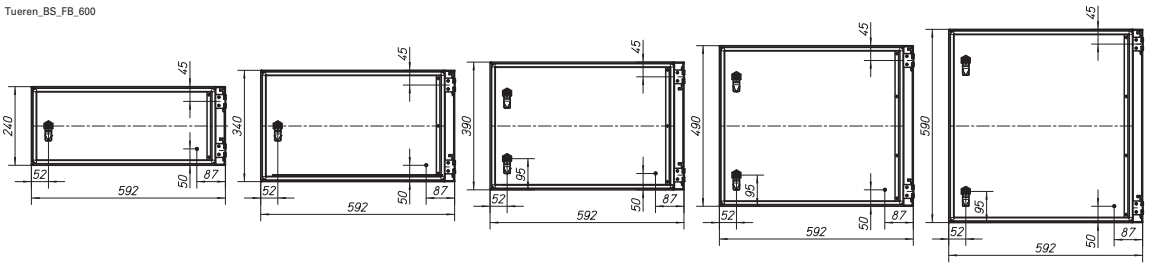
- H = 1600 mm
- B = 400 mm

Doors - Box Solution

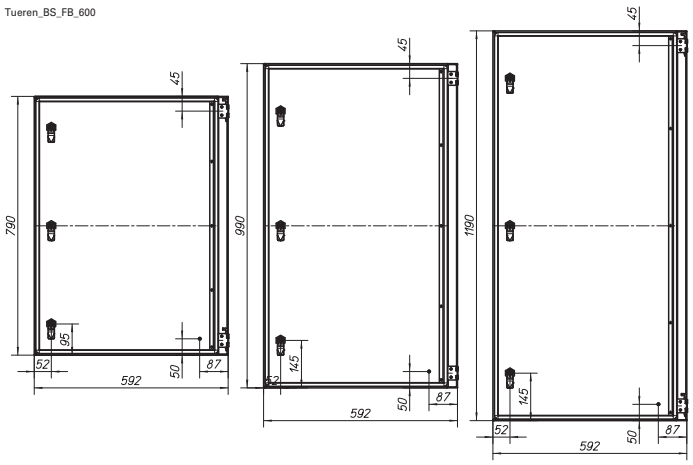
Version: Stand-alone cabinet (no combination/switchgear area only)

xEnergy Main doors of section width 600

Tueren_BS_FB_600



Tueren_BS_FB_600

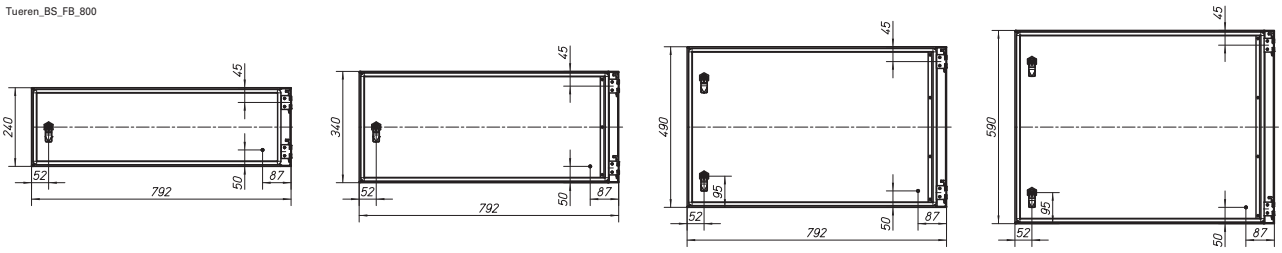


Modules

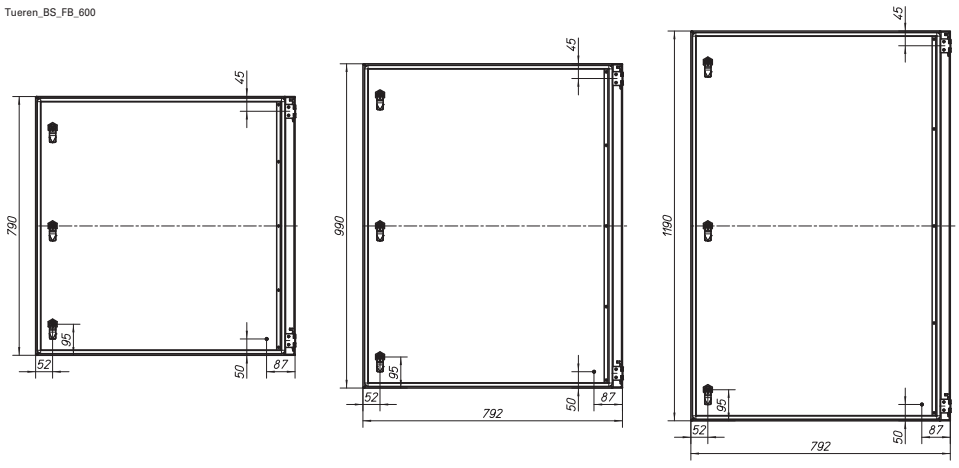
- Width of mounting plates = 600 mm
- Each module has its own module door
- All of the installation modules combinable with BBT are marked in colours in the "Individual components" chapter
- Modules for general installation units are available in heights of 200 to 1200 mm

xEnergy Main doors of section width 800

Tueren_BS_FB_800



Tueren_BS_FB_600

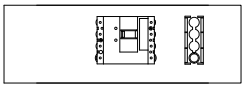


Box Solution Mounting Plates for NZM 1-3

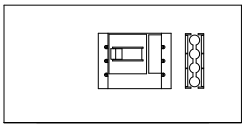
Box Solution 4 - Heights and equipment

Module width 600 mm

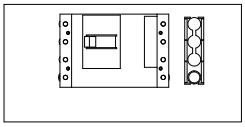
Circuit breaker NZM1
3/4-pole up to 160 A, H = 200 mm, 8U
Mounting position: horizontal, installation type: fixed/ withdrawable



Circuit breaker NZM2
3-pole up to 300 A, H = 200 mm, 8U
Mounting position: horizontal, installation type: fixed/ withdrawable

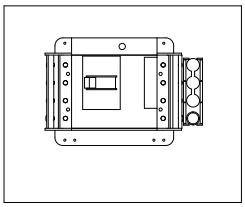


Circuit breaker NZM2
4-pole up to 300 A, H = 300 mm, 12U
Mounting position: horizontal, installation type: fixed/ withdrawable

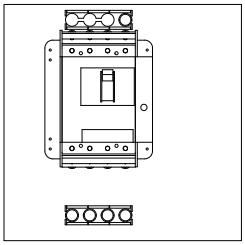


Circuit breaker NZM3
3/4-pole up to 630 A, H = 300 mm, 12U
Mounting position: horizontal, installation type: fixed

Circuit breaker NZM3
3/4-pole up to 630 A, H = 500 mm, 20U
Mounting position: horizontal, installation type: withdrawable

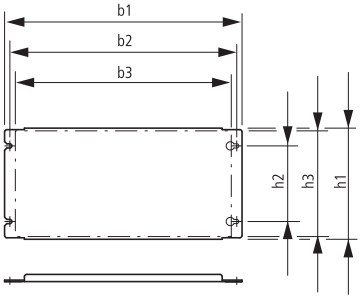


Circuit breaker NZM3
3/4-pole up to 630 A, H = 600 mm, 24U
Mounting position: vertical, installation type: fixed/ withdrawable



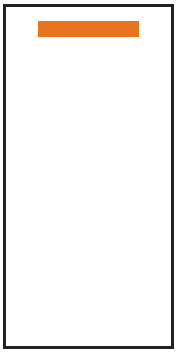
BS_600_NZM

General mounting plates



00163815_0

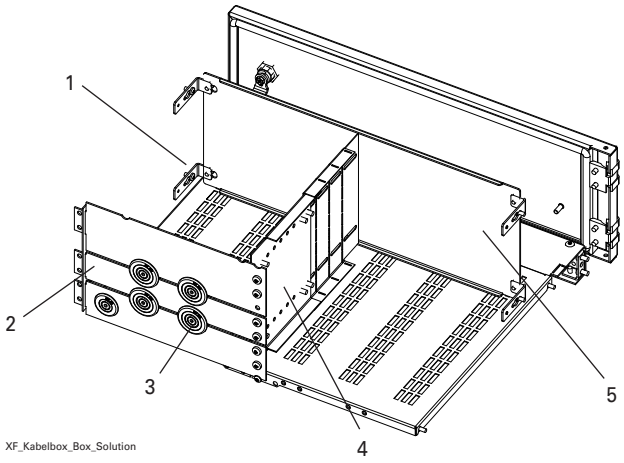
	h1	b1	h2	b2	h3	b3
XME0806M	197	489	150	475	190	458
XME1006M	247	489	200	475	240	458
XME1206M	297	489	250	475	290	458
XME1406M	347	489	300	475	340	458
XME1606M	397	489	250	475	390	458
XME2006M	497	489	450	475	490	458
XME2406M	597	489	550	475	590	458
XME3206M	797	489	750	475	790	458
XME3806M	947	489	900	475	940	458
XME4006M	997	489	950	475	990	458
XME4806M	1197	489	1150	475	1190	458



Stacked_Cu_Schematik_2

Main busbar

- Position possitble: top
- From 1x30/10 up to max 12x30/10 Cu



XF_Kabelbox_Box_Solution

Cable Connection Box

- Terminal boxes are located behind the mounting plate. Connection is done on the rear connections at the switches of the NZM series (see accessories for NZM). In case of motor starter combinations the connecting lines will be led from the switchgear area to the terminals placed in the boxes. To close the boxes, modular cover plates are designed in a way to make sure they are easy to mount after connecting the cables. Depending on the size of the module you need to use different cable entries in different sizes.

1 = Connection box
2 = Closing plates
3 = Grommets
4 = Separation panel (dropper bar/terminal box)
5 = Mounting plate

Max. current load and power loss for dropper bars in an XF section

Dropper bar:
Center-to-center distance between phases = 60 mm
Rated current I_n = up to 2000 A
Rated short-time withstand current I_{cw} = up to 80 kA

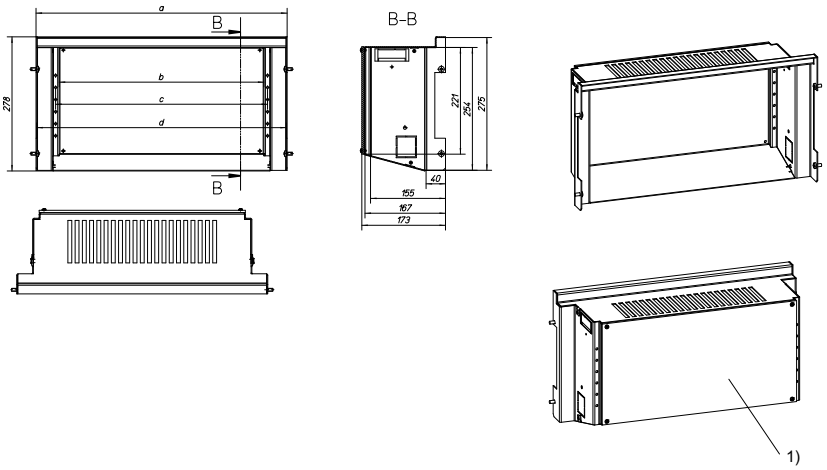
	I_e up to	Busbar cross-section	Degree of protection	Admitted permanent current I depending on the ambient temperature and the degree of protection of the distribution sections			Power loss P_v		
	A	mm²		25 °C A	35 °C A	50 °C A	25 °C W/m	35 °C W/m	50 °C W/m
	1600	2 x 40 x 10	IP31 with ventilated top cover	1730	1600	1400	98	84	64
			IP31 with closed top cover	1330	1300	1250	58	56	51
			IP42 with ventilated top cover	1730	1600	1400	98	84	64
			IP42 with closed top cover	1330	1300	1250	58	56	51
			IP55	1330	1300	1250	58	56	51
	2000	2 x 60 x 10	IP31 with ventilated top cover	2130	2000	1800	105	92	75
			IP31 with closed top cover	1940	1820	1640	87	76	62
			IP42 with ventilated top cover	1960	1900	1800	89	83	75
			IP42 with closed top cover	1820	1775	1700	76	73	67
			IP55	1680	1650	1600	65	63	59

Short-circuit strength for dropper bars in an XF section

	I_e up to	Busbar cross-section	Short-circuit strength	Max. distance between busbar supports center-to-center
	A	mm²	kA	mm
	1600	2 x 40 x 10	35 / 1s	375
			50 / 1s	275
			65 / 1s	250
	2000	2 x 60 x 10	35 / 1s	375
			50 / 1s	275
			65 / 1s	250
			80 / 1s	200
			50 / 3s	200

Wiring module

- The wiring module is mounted in front of the main busbar.
  Where necessary, the module can be equipped with an additional DIN rail so as to be able to conveniently accommodate electrical components with a DIN rail fixing. The module also offers the possibility to install a cable duct for any control wiring/cross-wiring of the system. The cable duct itself is made of plastic-coated metal.
  Various holes or pre-punched areas are included both in the cable duct and in the wiring module to ensure convenient wiring of the system. The rear of the module is planked with an additional insulating partition of 3 mm (see fig. 1).

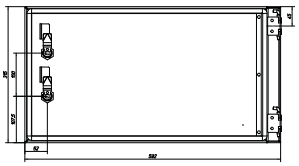


Metering_compartment_RearAccess_ASSEM_H250

1) Additional insulating partition at the rear

	a	b	c	d
W600	520	424	439	517
W800	720	624	639	717
W1000	920	824	839	817

Dimensions wiring module:



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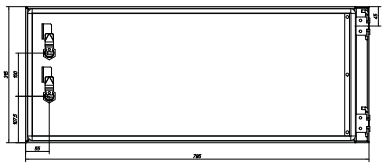

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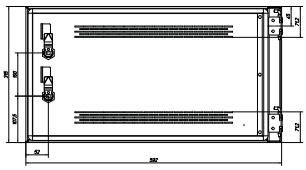

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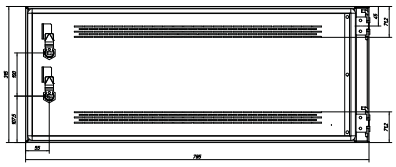
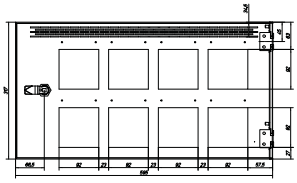
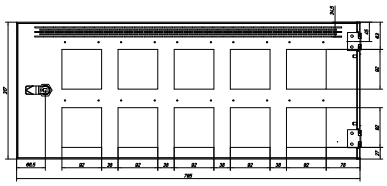


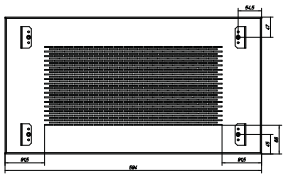
172708



192909



192910



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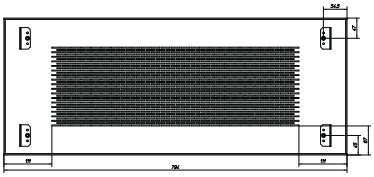
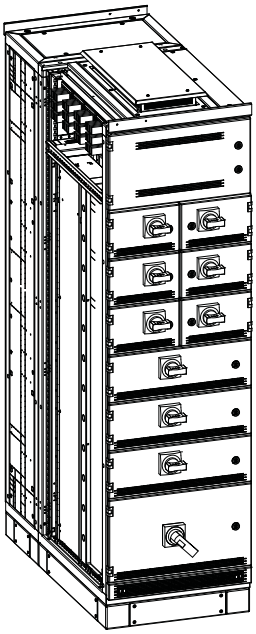


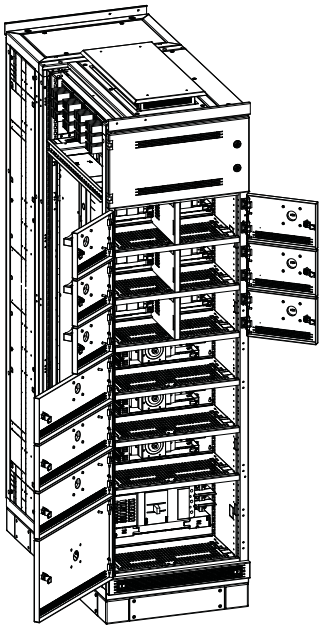
192912

DF_Busbar Chamber Filler

DF-Outgoing Sections for Fixed Modules up to 1250 A, Form 4 / up to Type 7



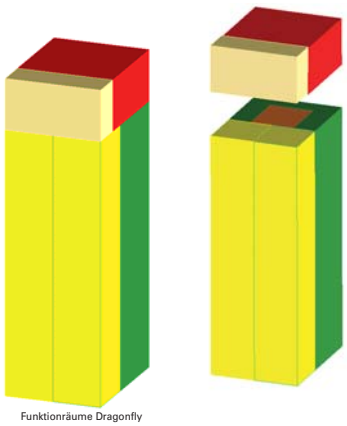
Overview_4b_B600



Overview_4b_B600_open_door_left

Description of the sections

- Degree of protection: IP31
- Section width 600/800 mm
- For compact circuit breakers of the NZM series, sizes 1-4
- For double modules in sizes 1-2
- For single modules in sizes 1-4
- Horizontal mounting position
- For fuse switch disconnnectors of the QSA series, sizes 0-3
- Module width 600 mm
- Single modules 0-4
- Double modules 0-3
- Horizonal mounting position of the QSA modules (some QSA switching elements are mounted vertically on the module plates)
- Wiring module with H = 325 mm in front of the main busbar, may be replaced with partition plates
- Internal partition Form 4/Type 7
- The connection at the module input end takes place via a centrally placed vertical dropper bar system. This system is fully partitioned internally, and protected against accidental contact by a cover.
- The terminal areas are located in separate functional areas (type 7) on both sides of the dropper bar system.
- The cable entry into the terminal area follows a modular design, so that the final locking of the terminal areas can take place after the cable connection has been completed. This means that the cables do not need to be threaded through flange plates.
- Each functional area (switchgear area) is locked with a module door that is equipped with mounting holes for rotary drives.
- In order to extend the cable connection area, empty sections of the desired section depth can be added at the rear of the principal section.
- The main busbar can be mounted in the field at the top or bottom (mirrored structure).

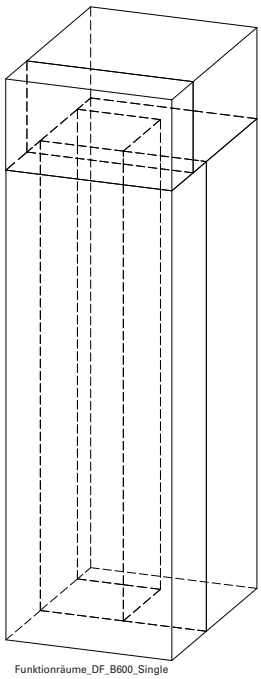


Funktionräume Dragonfly

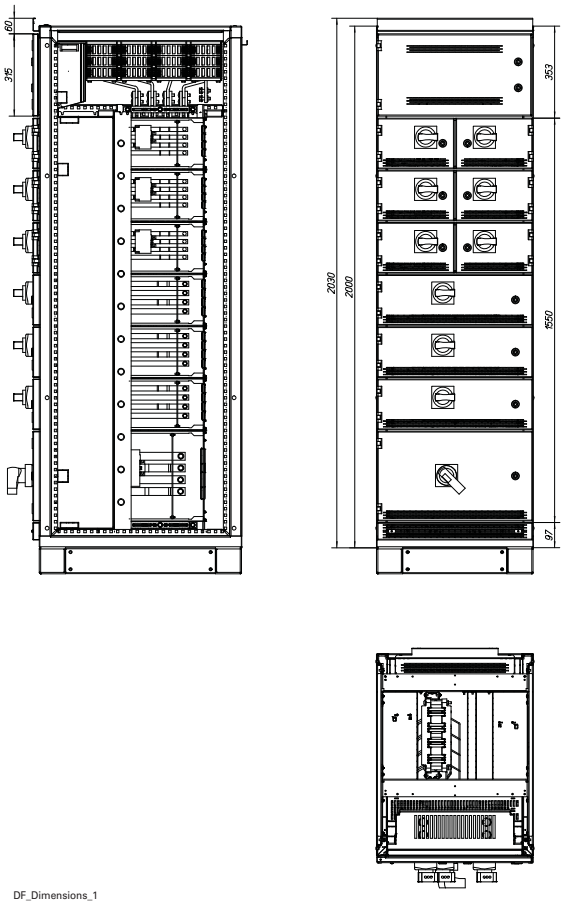
Internal division/design of the functional areas (mirrored structure for main busbar at the bottom))

DF functional areas for field depths of 600/800 mm

Yellow: Switchgear area
Green: Cable connection area
Brown: Dropper busbar area
Ochre: Auxiliary/control area
Red: Main busbar area



Funktionräume_DF_B600_Single



DF_Dimensions_1

Cabinet dimensions

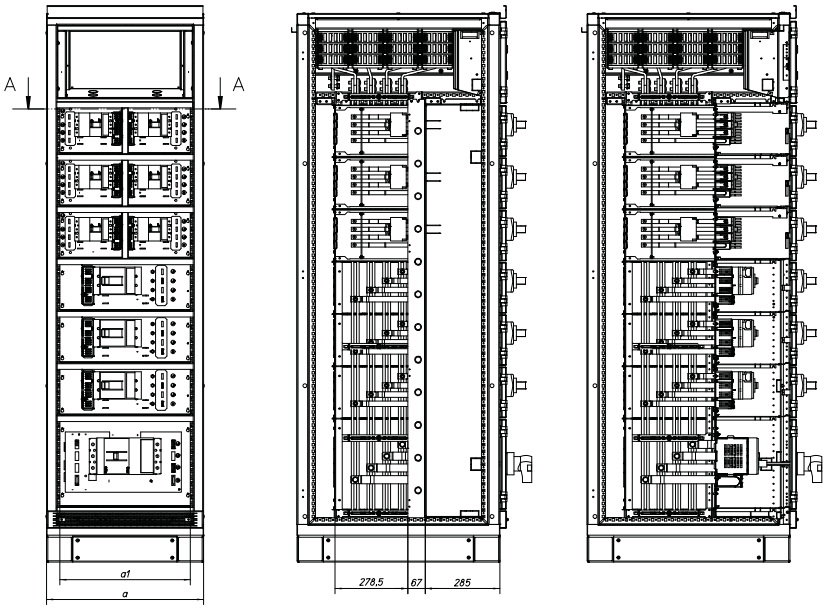
- Section width: 600/800 mm
- Section depth: 800 mm
- A cable entry section can be added at the rear
- Section height: 2000 mm, with optional plinth (100/200 mm)

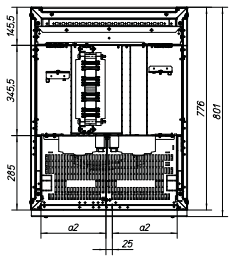
Switchgear area

- Module width: 600 mm
- Max. installation area available: H = 1550 mm
- Max. installation depth available: D = 285 mm

Cable connection area

- Width: 600 mm
- Depth: 145 mm + add-on sections, as required





DF_Dimensions_2

	a	a1	a2
W600	600	499	248
W800	800	699	348

DF outgoing sections (fixed mounting), module heights, equipped with NZM modules: for horizontal installation only

Mounting plates:

Section width 600 mm

Section width 800 mm

NZM1 fixed, 3p, 4p, 3p+N TWIN
8U, 200 mm

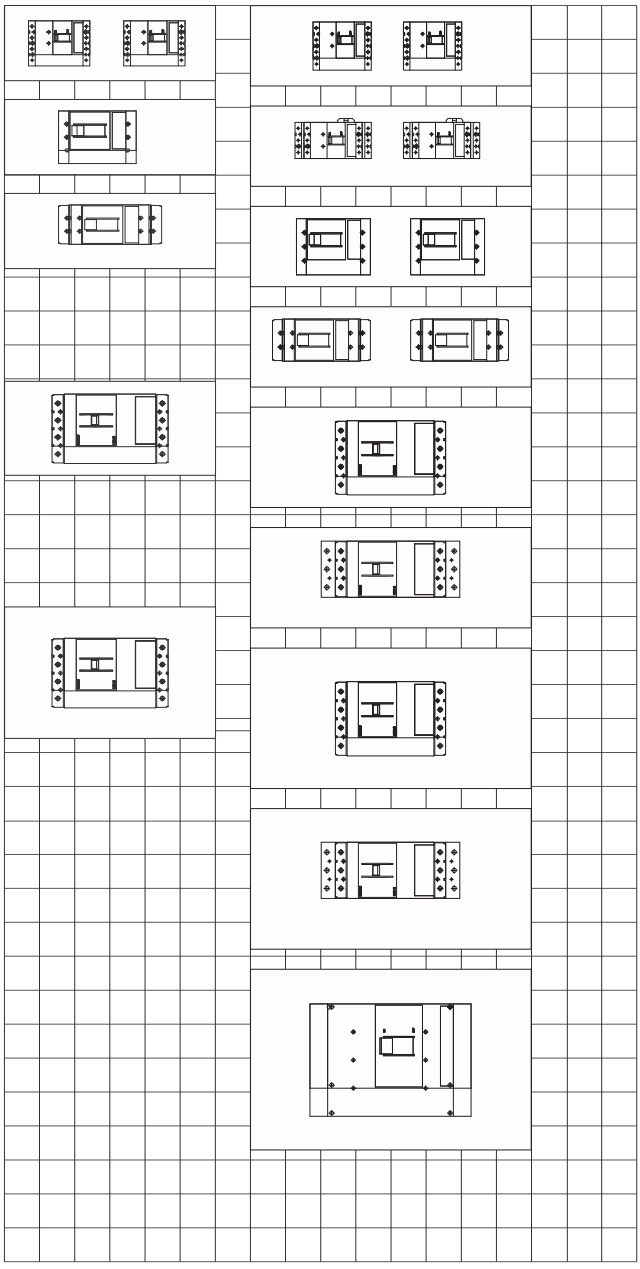
NZM2 fixed, 3p, 4p, 3p+N SINGLE
8U, 200 mm

NZM2 socket base, 3p, 3p+N
SINGLE
8U, 200 mm

NZM3 fixed, 3p, 4p, 3p+N
SINGLE
10U, 250 mm

NZM3 fixed, 3p, 4p, 3p+N
SINGLE
14U, 350 mm

NZM4 fixed, 3p, 4p, 3p+N
SINGLE
18U, 450 mm



Modules NZM_DF

NZM1 fixed, 3p, 4p, 3p+N
TWIN

NZM1 socket base, 3p, 4p, 3p+N
TWIN

NZM2 fixed, 3p, 4p, 3p+N
TWIN

NZM2 socket base, 3p, 3p+N
TWIN

NZM3 fixed, 3p, 4p, 3p+N
SINGLE

NZM3 plug-in, 3p, 3p+N
SINGLE

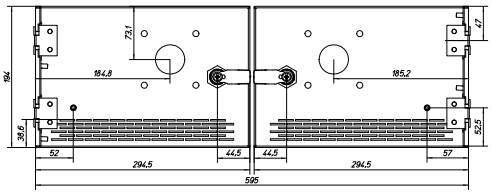
NZM3 fixed, 3p, 4p, 3p+N
SINGLE

NZM3 fixed, 3p, 3p+N, plug-in
SINGLE

NZM4 fixed, 3p, 4p, 3p+N
SINGLE
18U, 450 mm

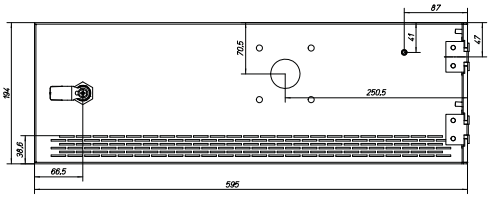
NZM module doors for modules of 600 mm width

NZM1 fixed, 3p, 4p, 3p+N
TWIN
8U, 200 mm



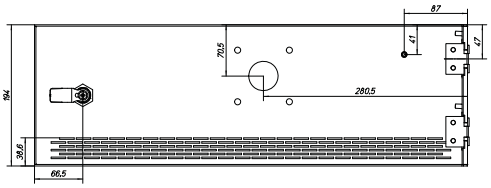
192781

NZM2 fixed, 3p, 4p, 3p+N
SINGLE
8U, 200 mm



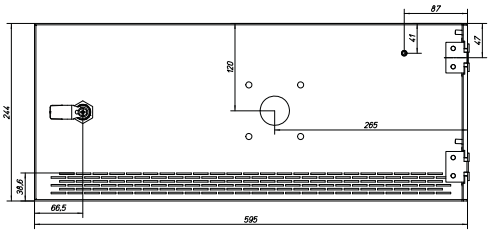
192786

NZM2 socket base, 3p, 3p+N
SINGLE
8U, 200 mm



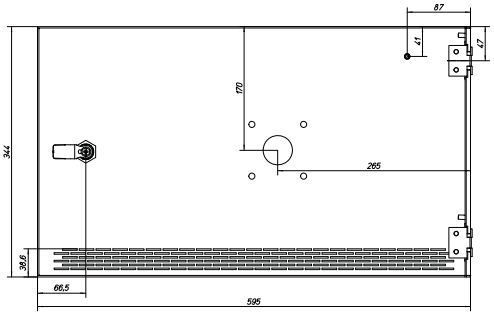
192787

NZM3 fixed, 3p, 4p, 3p+N
SINGLE
10U, 250 mm



192788

NZM3 fixed, 3p, 4p, 3p+N
SINGLE
14U, 350 mm

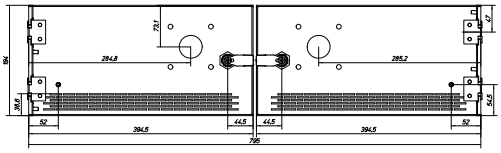


192790

DF_Doors

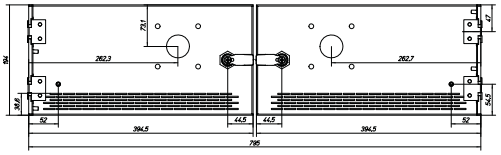
NZM module doors for modules of 800 mm width

NZM1 fixed, 3p, 4p, 3p+N
TWIN
H = 8U, 200 mm



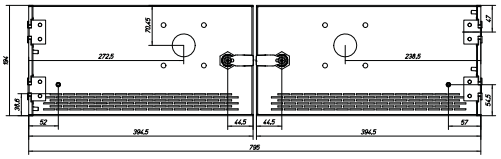
192782

NZM1 socket base, 3p, 4p, 3p+N
TWIN
H = 8U, 200 mm



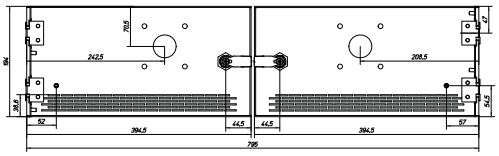
192783

NZM2 fixed, 3p, 4p, 3p+N
TWIN
H = 8U, 200 mm



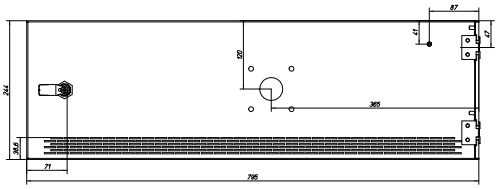
192784

NZM2 socket base, 3p, 3p+N
TWIN
H = 8U, 200 mm



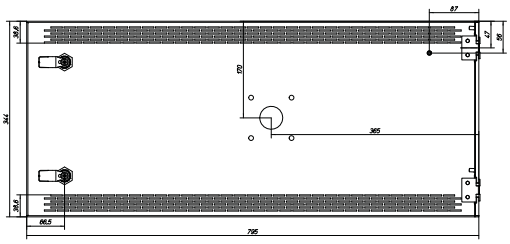
192785

NZM3 fixed, 3p, 4p, 3p+N
SINGLE
H = 10U, 250 mm



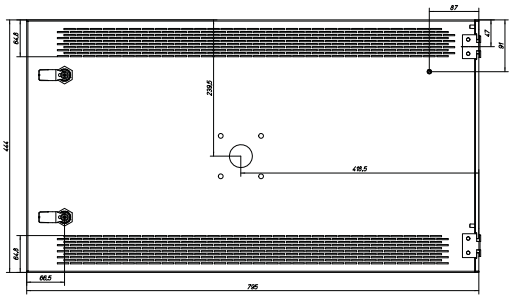
192789

NZM3 socket base, 3p, 3p+N
SINGLE
14U, 350 mm



192791

NZM4 fixed, 3p, 4p
SINGLE
18U, 450 mm



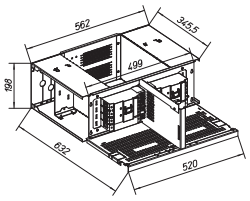
192792

DF_Doors

Dimensions and design of the NZM modules

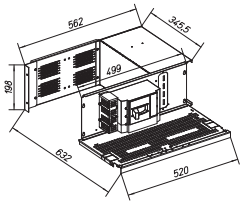
Section width 600 mm

192820



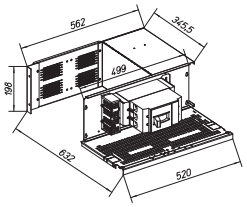
NZM1 fixed, 3p, 4p, 3p+N
TWIN
8U, 200 mm

192825



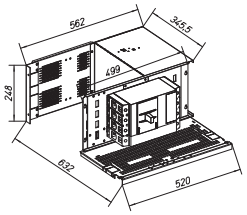
NZM2 fixed, 3p, 4p, 3p+N
SINGLE
8U, 200 mm

192826



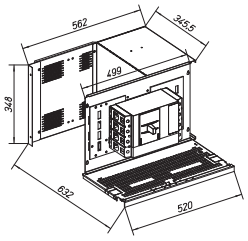
NZM2 socket base, 3p, 3p+N
SINGLE
8U, 200 mm

192827



NZM3 fixed, 3p, 4p, 3p+N
SINGLE
H = 10U, 250 mm

192830

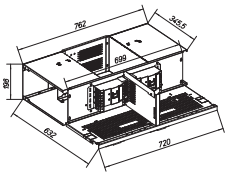


NZM3 fixed, 3p, 4p
SINGLE
14U, 350 mm

Modules NZM_3D-View_600_DF

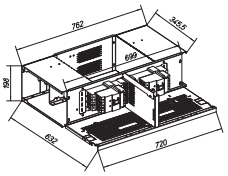
Section width 800 mm

192821



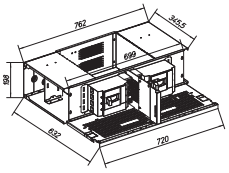
NZM1 fixed, 3p, 4p, 3p+N
TWIN
H = 8U, 200 mm

192822



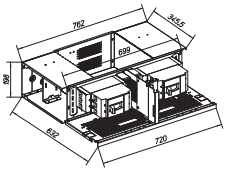
NZM1 socket base, 3p, 4p, 3p+N
TWIN
H = 8U, 200 mm

192823



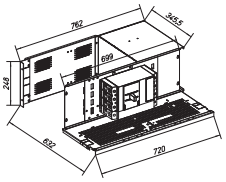
NZM2 fixed, 3p, 4p, 3p+N
TWIN
H = 8U, 200 mm

192824



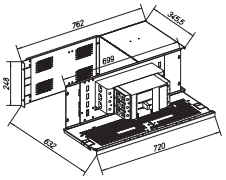
NZM2 socket base, 3p, 3p+N
TWIN
H = 8U, 200 mm

192828



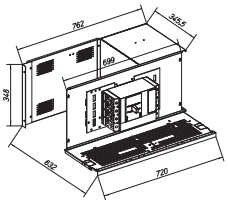
NZM3 fixed, 3p, 4p, 3p+N
SINGLE
H = 10U, 250 mm

192829



NZM3 socket base, 3p, 3p+N
SINGLE
H = 10U, 250 mm

192831



NZM3 fixed, 3p, 4p, 3p+N
SINGLE
14U, 350 mm

Modules NZM_3D-View_800_DF

DF outgoing sections (fixed mounting), module heights, equipped with QSA modules: horizontal installation possible

Section width 600 mm

QSA 0/63A 3p, 4p
TWIN
8U, 200 mm

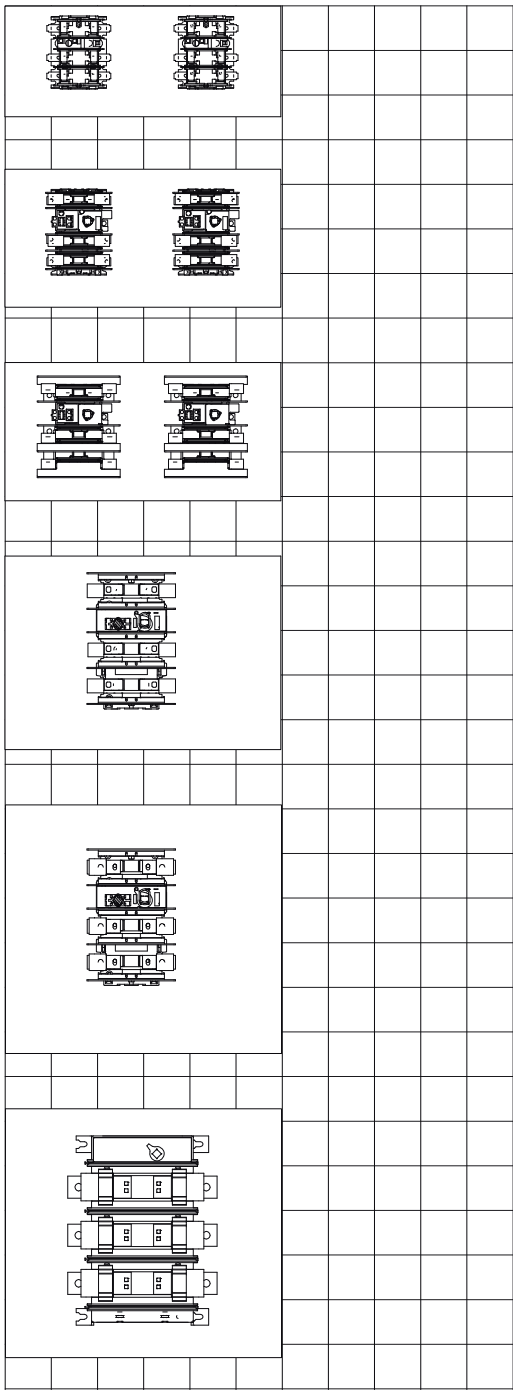
QSA 1/125 3p, 4p
TWIN
10U, 250 mm

QSA 1/160A 3p, 4p
TWIN
10U, 250 mm

QSA 2/250A 3p, 4p
SINGLE
14U, 350 mm

QSA 2/400A 3p, 4p
SINGLE
18U, 450 mm

QSA 3/800A 3p, 4p
SINGLE
20U, 500 mm

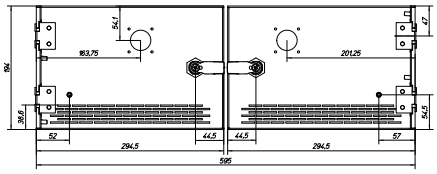


Modules QSA W600_DF

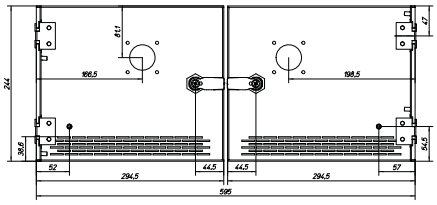
QSA module doors

Section width 600 mm

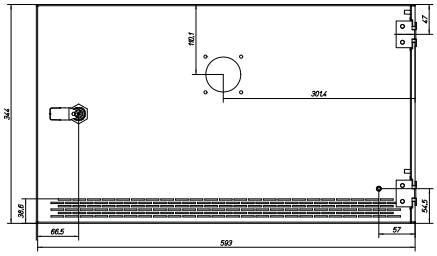
QSA 0/63A 3p, 4p
TWIN
8U, 200 mm



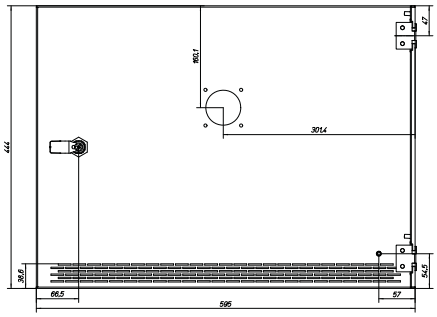
QSA 1/125-160A 3p, 4p
TWIN
10U, 250 mm



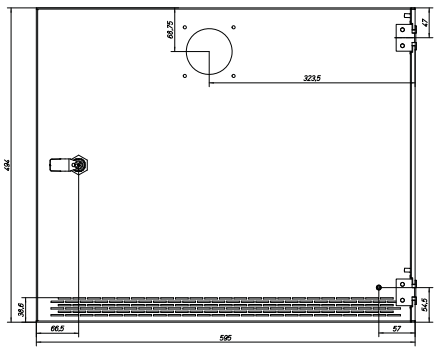
QSA 2/250A 3p, 4p
SINGLE
14U, 350 mm



QSA 2/400A 3p, 4p
SINGLE
18U, 450 mm



QSA 3/800A 3p, 4p
SINGLE
20U, 500 mm

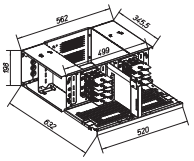


DF_Doors

Dimensions of the QSA modules

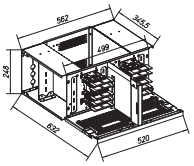
Section width 600 mm

192947



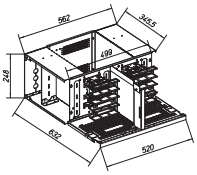
QSA 0/63A 3p, 4p
TWIN
8U, 200 mm

192949



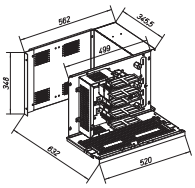
QSA 1/125-160 3p, 4p
TWIN
10U, 250 mm

192951



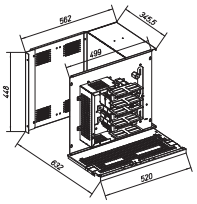
QSA 2/250A 3p, 4p
SINGLE
14U, 350 mm

192953



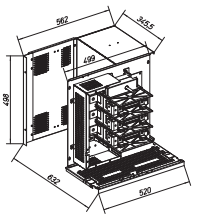
QSA 2/400A 3p, 4p
SINGLE
18U, 450 mm

192955



QSA 2/400A 3p, 4p
SINGLE
18U, 450 mm

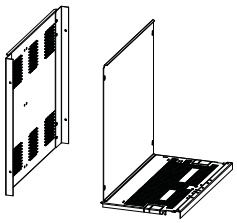
192957

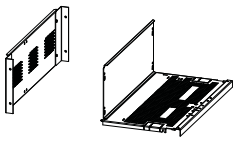


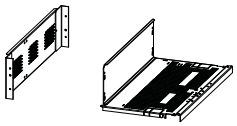
QSA 3/800 3p, 4p
SINGLE
20U, 500 mm

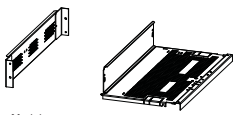
Modules QSA W600 3D-View_DF

Profile view of empty module
(seen from front left)



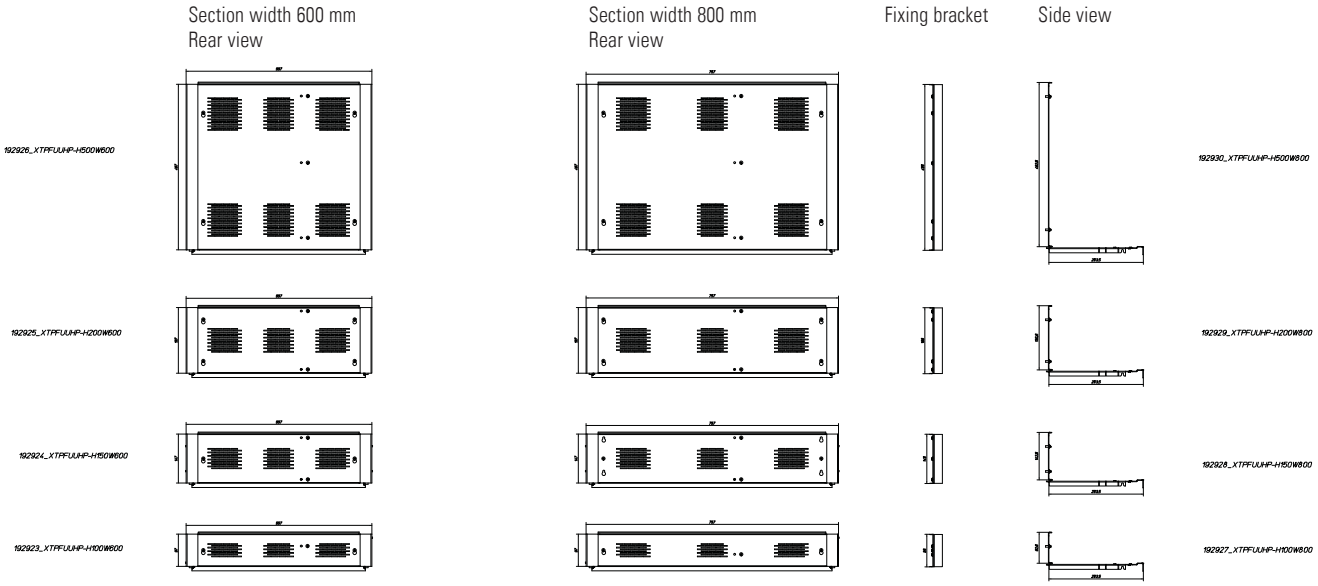






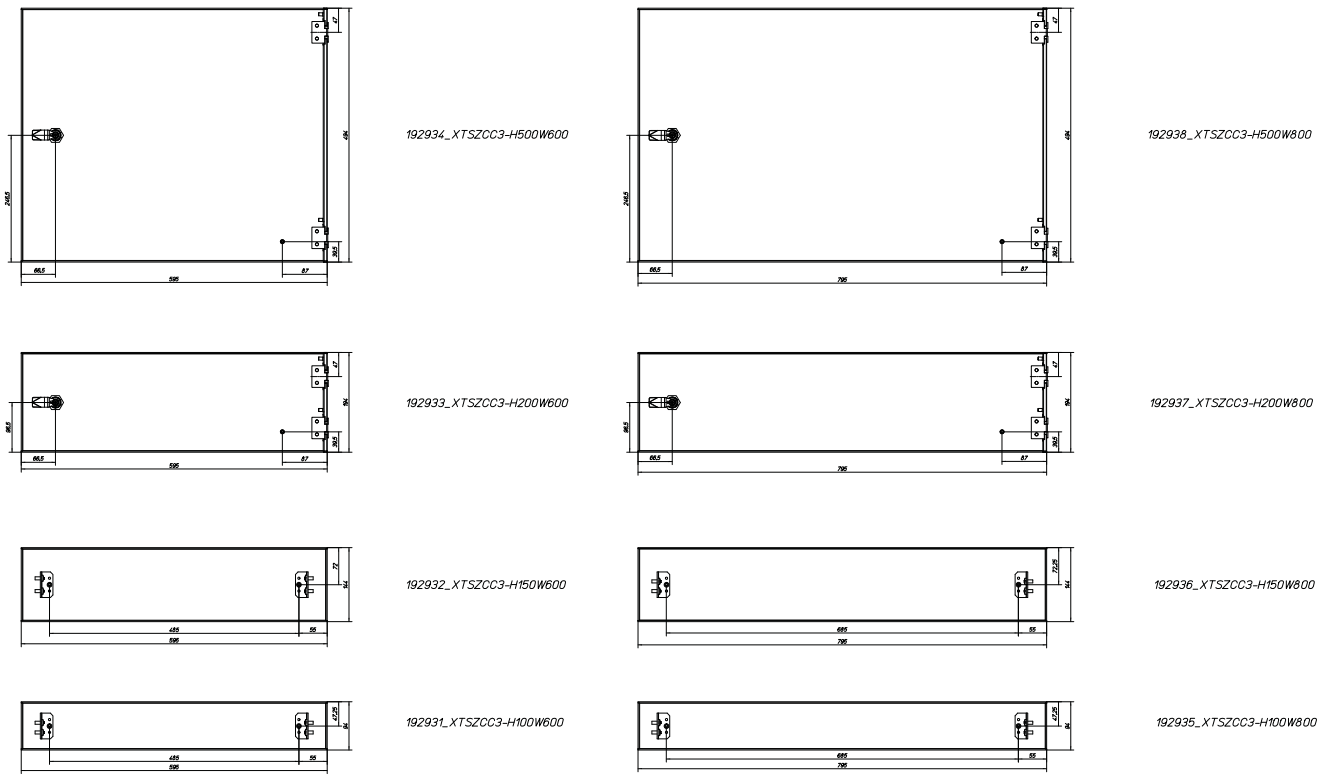
DF_Empty Modules

Dimensions of empty modules



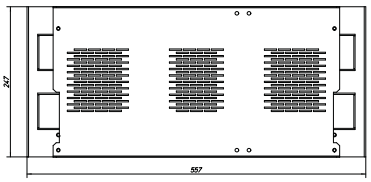
DF_Empty Modules

Dimensions of module doors



DF_Empty Modules_Door_Cover

Dimensions of front filler



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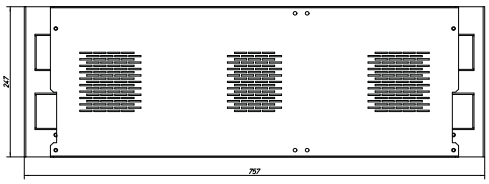

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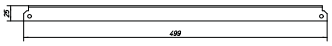

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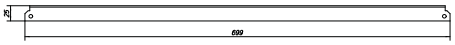

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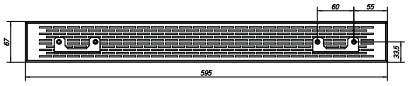
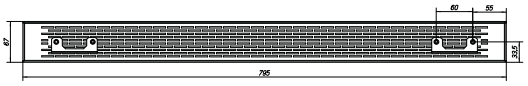


192915

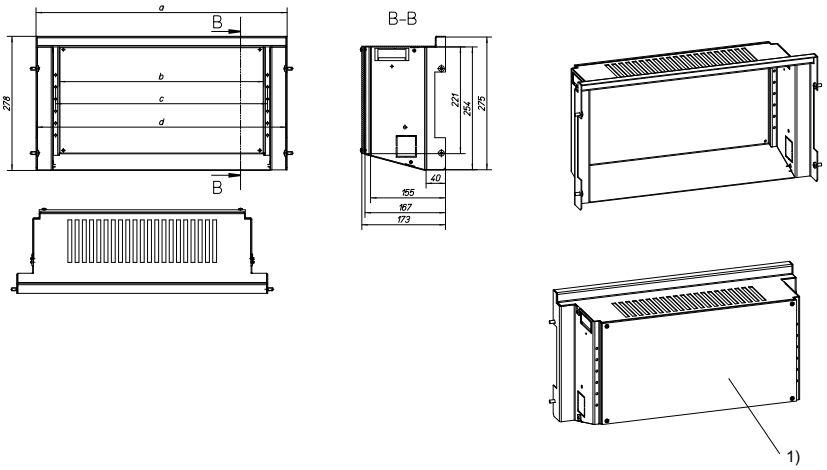


192916

DF_Top_Bottom_Filler

Wiring module

- The wiring module is mounted in front of the main busbar.
  As required, the module can be equipped with an additional DIN rail in order to comfortably integrate various electrical components via DIN-rail fastening. In addition, the module offers the possibility of adding a cable duct to allow for the installation of control wiring or cross-wiring. The channel itself is made from plastic-coated metal. To make facilitate easy wiring, the cable duct as well as the wiring module are equipped with various knockouts. For insulation purposes, the rear of the module is covered by 3-mm strong cladding (marked "1" in the image below).

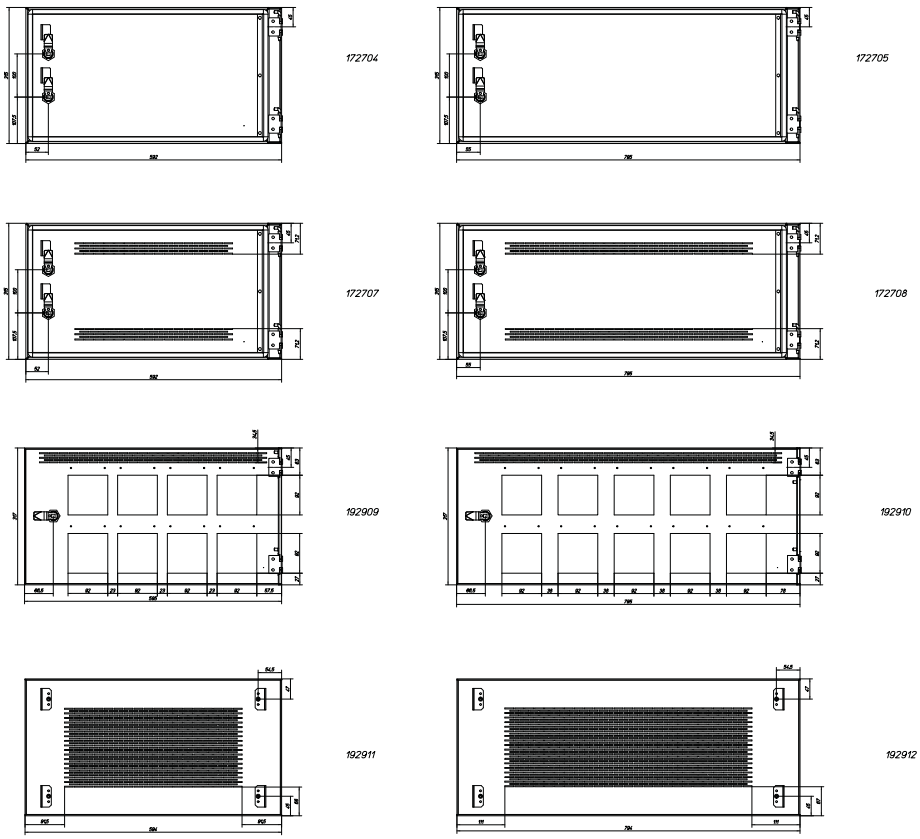


Metering_compartment_RearAccess_ASSEM_H250

1) Additional insulating partition at the rear

	a	b	c	d
W600	520	424	439	517
W800	720	624	639	717

Dimensions of the wiring-module doors



DF_Busbar Chamber Filler

Max. Current Load and Power Loss for dropper busbars in the DF outgoing section

Dropper bar:
Center-to-center distance between phases = 60 mm
Rated current I_n = up to 2000 A
Rated short-time withstand current I_{cw} = up to 80 kA

I_e up to	Busbar cross-section	Degree of protection	Admitted permanent current I depending on the ambient temperature and the degree of protection of the distribution sections			Power loss P_v		
A	mm²		25 °C A	35 °C A	50 °C A	25 °C W/m	35 °C W/m	50 °C W/m
1600	2 x 40 x 10	IP31 with ventilated top cover	1730	1600	1400	98	84	64
		IP31 with closed top cover	1330	1300	1250	58	56	51
		IP42 with ventilated top cover	1730	1600	1400	98	84	64
		IP42 with closed top cover	1330	1300	1250	58	56	51
		IP55	1330	1300	1250	58	56	51
2000	2 x 60 x 10	IP31 with ventilated top cover	2130	2000	1800	105	92	75
		IP31 with closed top cover	1940	1820	1640	87	76	62
		IP42 with ventilated top cover	1960	1900	1800	89	83	75
		IP42 with closed top cover	1820	1775	1700	76	73	67
		IP55	1680	1650	1600	65	63	59

Short-Circuit Strength for dropper busbars in the DF outgoing section

I_e up to	Busbar cross-section	Short-circuit strength	Max. distance between busbar supports center-to-center
A	mm²	kA	mm
1600	2 x 40 x 10	35 / 1s	375
		50 / 1s	275
		65 / 1s	250
2000	2 x 60 x 10	35 / 1s	375
		50 / 1s	275
		65 / 1s	250
		80 / 1s	200
		100 / 1s	175
		50 / 3s	200

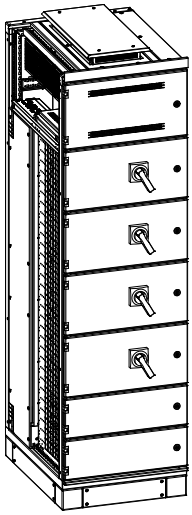
Electrical load for DF-NZM modules up to 1250 A in the DF cabinet

Configuration	Circuit breaker/ Device	Installation type	I_e up to A	Degree of protection	Admitted permanent current I depending on the ambient temperature and the degree of protection of the distribution sections		
					25 °C A	35 °C A	50 °C A
	NZM1 125 A		2	IP31 with ventilated top cover	125	120	-
			4	IP31 with ventilated top cover	125	118	-
			6	IP31 with ventilated top cover	125	116	-
			8	IP31 with ventilated top cover	124	114	-
			10	IP31 with ventilated top cover	122	112	-
			12	IP31 with ventilated top cover	119	110	-
			14	IP31 with ventilated top cover	117	108	-
	NZM1 160 A		2	IP31 with ventilated top cover	160	160	-
			4	IP31 with ventilated top cover	160	157	-
			6	IP31 with ventilated top cover	160	155	-
			8	IP31 with ventilated top cover	160	152	-
			10	IP31 with ventilated top cover	160	149	-
			12	IP31 with ventilated top cover	158	147	-
			14	IP31 with ventilated top cover	155	144	-
	NZM1 125 A plug-in		2	IP31 with ventilated top cover	103	95	-
			4	IP31 with ventilated top cover	101	93	-
			6	IP31 with ventilated top cover	99	91	-
			8	IP31 with ventilated top cover	98	90	-
			10	IP31 with ventilated top cover	95	88	-
			12	IP31 with ventilated top cover	94	87	-
			14	IP31 with ventilated top cover	92	85	-
	NZM2		2	IP31 with ventilated top cover	250	250	-
			4	IP31 with ventilated top cover	250	246	-
			6	IP31 with ventilated top cover	250	242	-
			8	IP31 with ventilated top cover	250	238	-
			10	IP31 with ventilated top cover	249	233	-
			12	IP31 with ventilated top cover	245	229	-
			14	IP31 with ventilated top cover	240	225	-
	NZM2 plug-in		2	IP31 with ventilated top cover	217	203	-
			4	IP31 with ventilated top cover	213	200	-
			6	IP31 with ventilated top cover	209	196	-
			8	IP31 with ventilated top cover	206	193	-
			10	IP31 with ventilated top cover	202	190	-
			12	IP31 with ventilated top cover	199	186	-
			14	IP31 with ventilated top cover	195	183	-
	NZM3 400 A		1	IP31 with ventilated top cover	400	400	-
			2	IP31 with ventilated top cover	400	392	-
			3	IP31 with ventilated top cover	400	384	-
			4	IP31 with ventilated top cover	400	376	-
			5	IP31 with ventilated top cover	394	368	-
			6	IP31 with ventilated top cover	385	360	-
	NZM3 630 A		1	IP31 with ventilated top cover	610	570	-
			2	IP31 with ventilated top cover	586	547	-
			3	IP31 with ventilated top cover	567	530	-
			4	IP31 with ventilated top cover	549	513	-
	NZM3 500 A plug-in		1	IP31 with ventilated top cover	439	410	-
			2	IP31 with ventilated top cover	421	394	-
			3	IP31 with ventilated top cover	408	381	-
			4	IP31 with ventilated top cover	395	369	-
	NZM4 800 A		1	IP31 with ventilated top cover	800	800	-
			2	IP31 with ventilated top cover	800	760	-
			3	IP31 with ventilated top cover	768	720	-
	NZM4 1250 A		1	IP31 with ventilated top cover	1250	1175	-
			2	IP31 with ventilated top cover	1190	1116	-
			3	IP31 with ventilated top cover	1128	1058	-

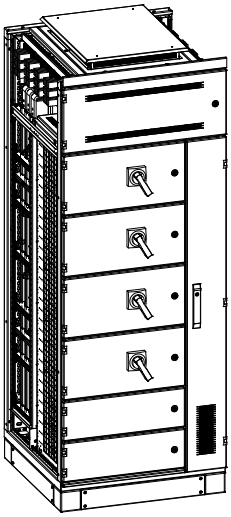
Electrical load for DF-QSA modules up to 800 A in the DF cabinet

Configuration	Circuit breaker/ Device	Installation type	I_e up to A	Degree of protection	Admitted permanent current I depending on the ambient temperature and the degree of protection of the distribution sections		
					25 °C A	35 °C A	50 °C A
	QSA 63 A		2	IP31 with ventilated top cover	63	63	-
			4	IP31 with ventilated top cover	63	61	-
			6	IP31 with ventilated top cover	63	60	-
			8	IP31 with ventilated top cover	63	59	-
			10	IP31 with ventilated top cover	61	58	-
			12	IP31 with ventilated top cover	60	57	-
			14	IP31 with ventilated top cover	59	56	-
	QSA 125 A		2	IP31 with ventilated top cover	125	125	-
			4	IP31 with ventilated top cover	125	122	-
			6	IP31 with ventilated top cover	125	120	-
			8	IP31 with ventilated top cover	124	117	-
			10	IP31 with ventilated top cover	122	115	-
			12	IP31 with ventilated top cover	119	112	-
	QSA 160 A		2	IP31 with ventilated top cover	160	160	-
			4	IP31 with ventilated top cover	160	157	-
			6	IP31 with ventilated top cover	160	154	-
			8	IP31 with ventilated top cover	159	150	-
			10	IP31 with ventilated top cover	156	147	-
			12	IP31 with ventilated top cover	153	144	-
	QSA 250 A		1	IP31 with ventilated top cover	250	250	-
			2	IP31 with ventilated top cover	250	240	-
			3	IP31 with ventilated top cover	246	233	-
			4	IP31 with ventilated top cover	238	225	-
	QSA 400 A		1	IP31 with ventilated top cover	382	360	-
			2	IP31 with ventilated top cover	362	342	-
			3	IP31 with ventilated top cover	343	324	-
	QSA 630 A		1	IP31 with ventilated top cover	625	590	-
			2	IP31 with ventilated top cover	594	561	-
			3	IP31 with ventilated top cover	563	531	-
	QSA 800 A		1	IP31 with ventilated top cover	763	720	-
			2	IP31 with ventilated top cover	725	684	-
			3	IP31 with ventilated top cover	687	648	-

XW Outgoing Sections Motor Control Center in Withdrawable Design



XF_box solution_0608



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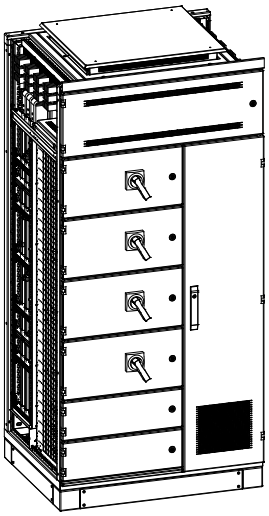
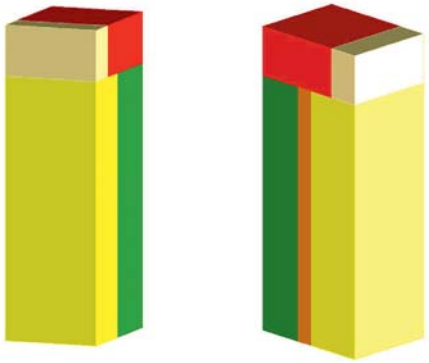


XF_box solution_1008

Description of the sections

- Section width 600 mm, with an additional cable connection area at the side for section widths of = 800/1000 mm
- Max. switchgear area available for equipment = 1575 mm / 21 Modules
- In horizontal mounting position
- Wiring module of H = 325 mm in front of the main busbar, can optionally be replaced by a partition panel
- Internal separation up to Form 4 / up to Type 7
- On the incoming side, connection is done on a vertically arranged dropper bar system by means of incoming plug-type contacts. The dropper bar system is placed behind the switchgear area in the cabinet and it is covered to be shock-proof. Contact holes in the partition panels can optionally be equipped with self-closing plates.
- Can be combined with Smart Wire DT
- If a cable connection area is installed at the side, it will be closed with a separate door
- Can be configured with an additional cable connection area at the side
- Even with a cable connection area at the side, there is only one shared wiring module

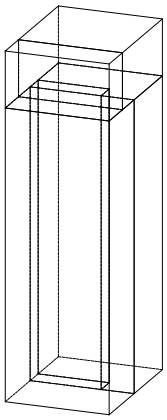


Funktionsraeume_XW_BBT_a

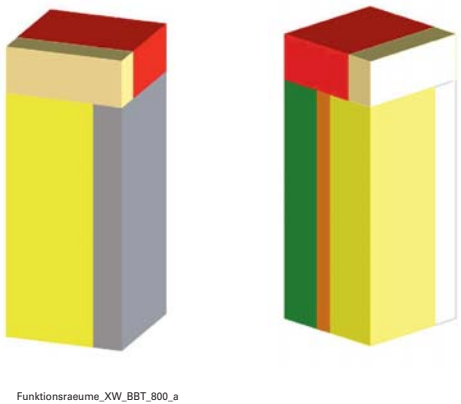
Internal separation/Layout of functional areas in section width of 600 mm

Functional areas XW
B600

Yellow: Switchgear area
Green: Cable area
Ochre: Metering compartment
Red: Main busbar area
Orange: Dropper bar



Funktionsraeume_XW_BBT_b

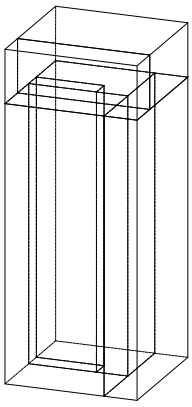


Funktionsraeume_XW_BBT_800_a

Internal separation/Layout of functional areas in section width of 800 mm

Functional areas XW
B800

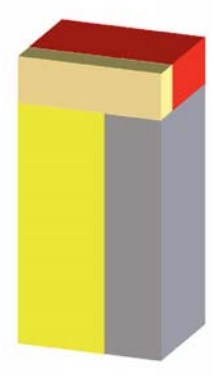
Yellow: Switchgear area
Green: Cable area
Ochre: Metering compartment
Red: Main busbar area
Orange: Dropper bar
Grey: Additional cable area



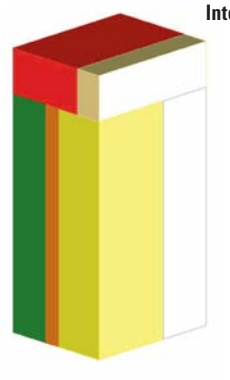
Funktionsraeume_XW_BBT_800_b

xEnergy Main Switchboards

XW Outgoing Section



Funktionsraeume_XW_BBT_1000_a

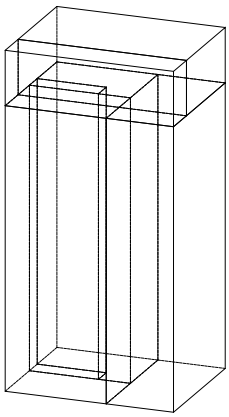


Internal separation/Layout of functional areas in section width of 1000 mm

Functional areas XW

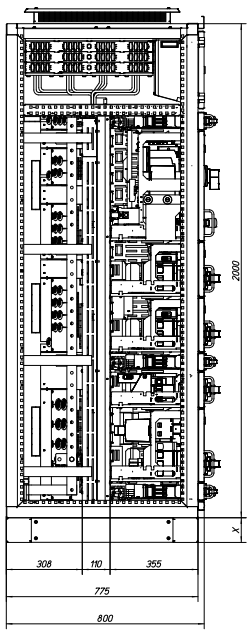
B1000

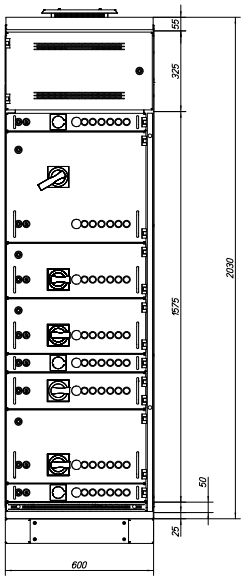
Yellow: Switchgear area
Green: Cable area
Ochre: Metering compartment
Red: Main busbar area
Orange: Dropper bar
Grey: Additional cable area



Funktionsraeume_XW_BBT_1000_b

W600





XW_0608

Dimensions

- Section width: 600 mm
- Section depth: 800 mm
  In addition, you can add a cable guidance cabinet at the back of the XP section
- Section height: 2000 mm, optionally with a plinth (x) of 100 or 200 mm

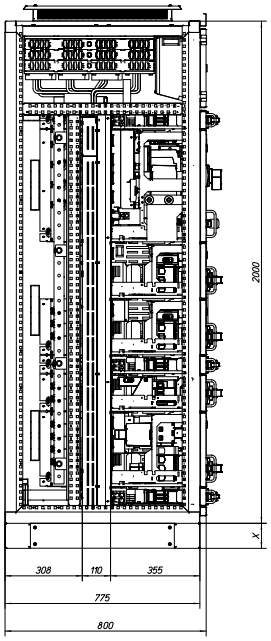
Switchgear area

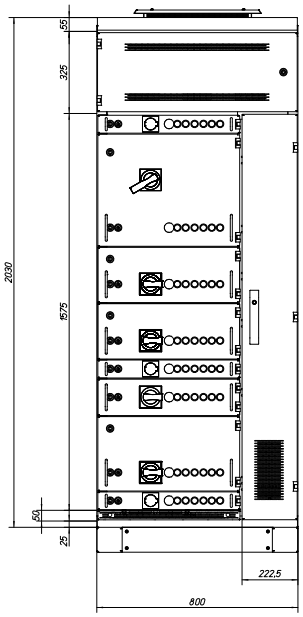
- Module width = 600 mm
- Max. installation area available: H = 1575 mm / 21 Modules
- Max. installation depth available: D = 450 mm

Cable connection area at the rear

- Width = 308 mm
- Depth = 355 mm

W800





XW_0808

Dimensions

- Section width: 800 mm
- Section depth: 800 mm
  In addition, you can add a cable guidance cabinet at the back of the XP section
- Section height: 2000 mm, optionally with a plinth (x) of 100 or 200 mm

Switchgear area

- Module width = 600 mm
- Max. installation area available: H = 1575 mm / 21 Modules
- Max. installation depth available: D = 355 mm

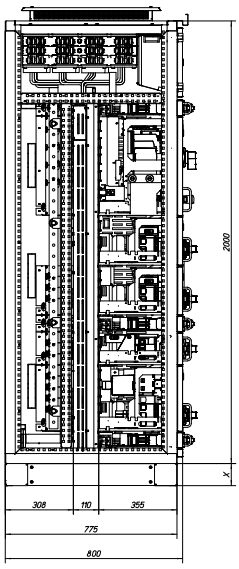
Cable connection area at the rear

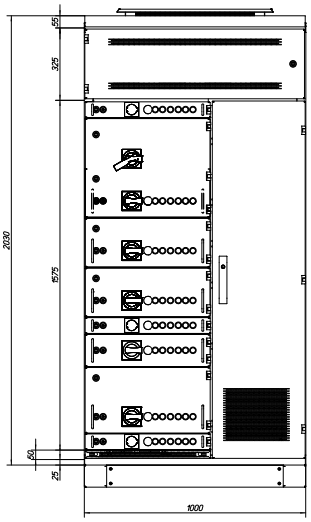
- Width = 800 mm
- Depth = 308 mm

Cable connection area at the side

- H = 1600 mm
- B = 200 mm

W1000





XW_1008

Dimensions

- Section width: 1000 mm
- Section depth: 800 mm
  In addition, you can add a cable guidance cabinet at the back of the XP section
- Section height: 2000 mm, optionally with a plinth (x) of 100 or 200 mm

Switchgear area

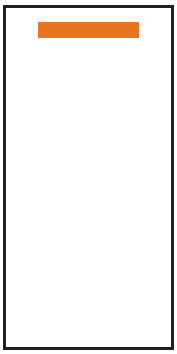
- Module width = 600 mm
- Max. installation area available: H = 1575 mm / 21 Modules
- Max. installation depth available: D = 355 mm

Cable connection area at the rear

- Width = 1000 mm
- Depth = 308 mm

Cable connection area at the side

- H = 1600 mm
- B = 400 mm



Stacked_Cu_Schematik_2

Main busbar

- Position possitble: top
- From 1x30/10 up to max 12x30/10 Cu

Modules

- All standard configurations listed in the Drawer_Outgoing_Unit_List can be used
- Each module can be combined with a steel front panel
- All components combinable with BBT are marked in colours in the “Individual components“ chapter.

Versions of module front panels

There are two versions of module front panels available: A plastic front panel and a metal front panel.

Plastic front:

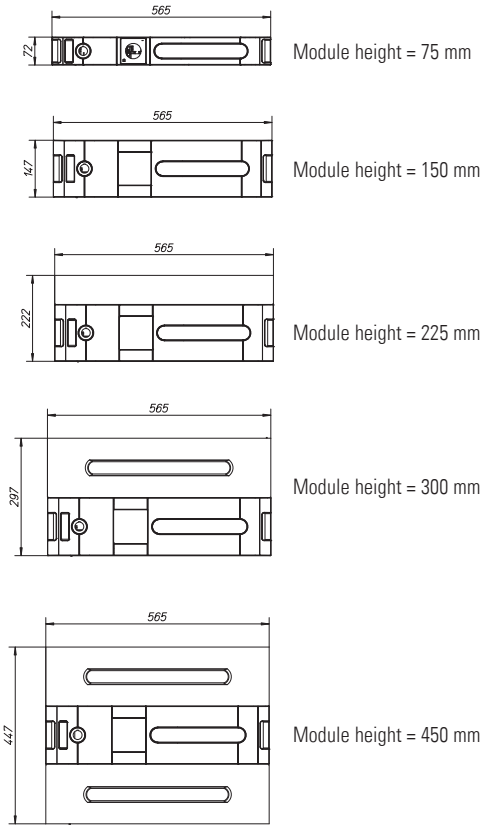
The plastic front is hooked onto the module by means of a metal front plate and then screw-fixed. This is how a solid, screw-fixed connection is established between the front and the module body. For wiring or service jobs, the front panel needs to be removed because you need access to the drawer from the front. To comply with IP55 requirements, the metal support frame comes with a polyurethane 2-components foam sealing applied while hot.

Metal front:

The metal front is supplied as a unit with the base plate/frame. The base frame is screw-fixed with the module. The front itself is designed like a door with hinges, this always provides free access to all compenents behind it and to the respective wiring. To comply with IP55 requirements, the metal support frame is equipped with a polyurethane 2-components foam sealing applied while hot. For IP31 and IP55 the door comes with a sealing, so the sealing surface between the support frame and the door is neatly sealed.

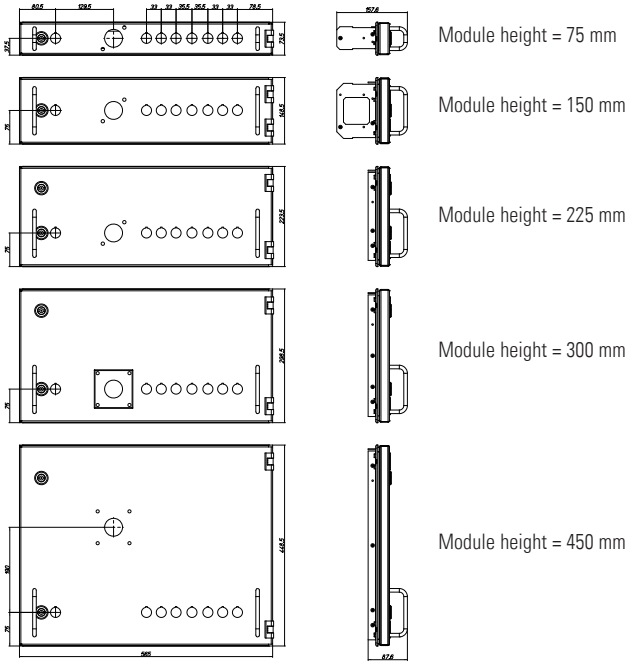
Dimensions of module fronts

Plastic front



xE_MCC_2_

Metal front



MCC_MFR_1

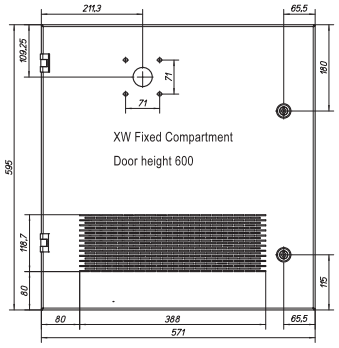
Setup of fixed modules

Heights 600 mm and 750 mm.
Due to their weight modules higher than 450 mm need to be fixed in the MCC cabinet and screw-fixed to it. Generally you can use the same components as with smaller modules.

Dimensions of Fixed Modules

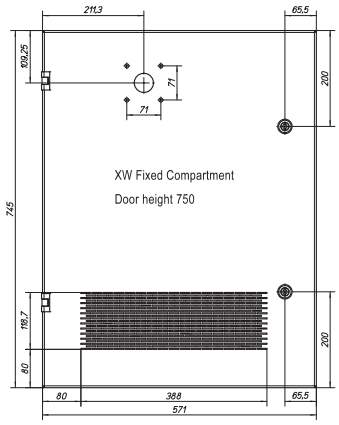
Dimensions of the doors

Height 600 mm



MCC_Fix_H600_H750_Door

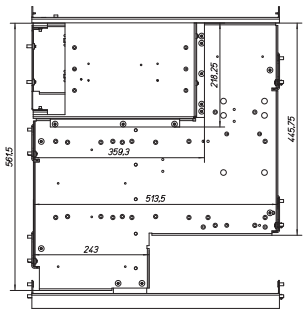
Height 750 mm



MCC_Fix_H600_H750_Door

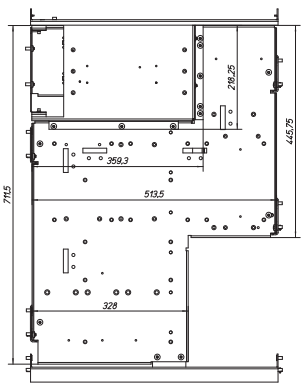
Dimensions of Fixed Modules

Front view of the mounting plate Height 600 mm



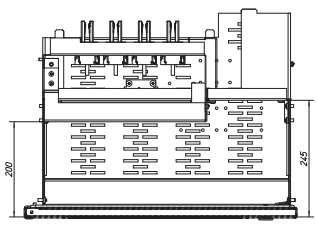
MCC_Fix_H600_H750

Front view of the mounting plate Height 750 mm



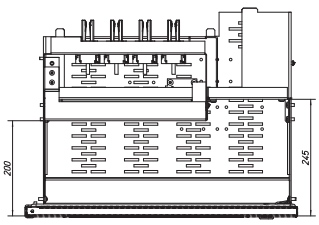
MCC_Fix_H600_H750

Top view Height 600 mm



MCC_Fix_H600_H750

Top view Height 750 mm



MCC_Fix_H600_H750

Overview of the different drawers listed according to module heights and performance (amperage)

IP31

Module heights mm	Drawers	50 kA Performance or amperage	80 kA Performance or amperage
75	FE3P	16-32A	16-32A
	DOL	3-15kW	0.06-15kW
	FR	3-15kW	0.06-15kW
150	FE3P	20-200A	20-200A
	FC3P	20-100A	20-100A
	DOL	18.5-45kW	18.5-45kW
	FR	18.5-22kW	-
	SD	5.5-15kW	7.5-15kW
225	FE4P	20-200A	20-200A
	FC3P	125A	125A
	FC4P	20-125A	20-125A
	DOL	55-75kW	55-75kW
	FR	30-75kW	18.5-75kW
	SD	18.5-22kW	-
300	FE3P	250A	250A
	FE4P	250A	250A
	FC3P	160-200A	160-200A
	DOL	90kW	90kW
	FR	-	-
	SD	37-75kW	18.5-75kW
450	FE3P	400A	400A
	FE4P	400A	400A
	FC3P	250-300A	250-300A
	FC4P	160-300A	160-300A
	DOL	110-160A	110-160A
	FR	90-110kW	90-110kW
As of a height of 600 mm, it is only possible to create a set-up with fixed modules			
600	FE3P	630A	630A
	FE4P	630A	630A
	FC3P	400-630A	400-630A
	FC4P	400-630A	400-630A
	DOL	200-250kW	200-250kW
	FR	132-160kW	132-160kW
	SD	90-250kW	90-250kW
750	FR	200-250kW	200-250kW
	SD	-	250kW

IP55

Module heights mm	Drawers	50 kA Performance or amperage	80 kA Performance or amperage
75	FE3P	16-25A	16-25A
	DOL	3-11kW	0.06-11kW
	FR	3-11kW	0.06-11kW
150	FE3P	20-160A	20-160A
	FC3P	20-80A	20-80A
	DOL	15-37kW	15-37kW
	FR	15-18.5kW	-
	SD	5.5-11kW	7.5-11kW
225	FE4P	20-160A	20-160A
	FC3P	100-125A	100-125A
	FC4P	20-125A	20-125A
	DOL	45-55kW	45-55kW
	FR	22-55kW	15-55kW
	SD	15-18.5kW	-
300	FE3P	200A	200A
	FE4P	200A	200A
	FC3P	160A	160A
	DOL	75kW	75kW
	FR	-	-
	SD	22-55kW	15-55kW
450	FE3P	400A	400A
	FE4P	400A	400A
	FC3P	250A	250A
	FC4P	160-250A	160-250A
	DOL	90-110A	90-110A
	FR	75-90kW	75-90kW
As of a height of 600 mm, it is only possible to create a set-up with fixed modules			
600	FE3P	630A	630A
	FE4P	630A	630A
	FC3P	400A	400A
	FC4P	400A	400A
	DOL	132-200kW	132-200kW
	FR	110kW	110kW
	SD	75-200kW	75-200kW
750	FR	132-200kW	132-200kW
	SD	250kW	250kW

Smart Wire in xEnergy Main

What is SmartWire-DT®

SmartWire-DT® is a wiring and communication system for industrial control systems; it can be used both in the electrical cabinet and in the periphery. It replaces the control wiring which up to now was necessary for the switchgear as well as the input and output components, and it connects up to 99 SmartWire-DT® participants in an SWD string. An SWD string can be expanded to up to a max. of 600 m.

For more information on SmartWire-DT® please visit:

www.eaton.com/moeller → Support

and enter the search key "Das System" ("The system") in the quick search function.

How to incorporate SmartWire-DT® in the MCC

Key requirement:
Our objective was to make it possible to replace the individual drawers during full operation without interrupting the SW-DT string and without the need to reconfigure the replaced SW-DT components.

Additional equipment especially required for MCC

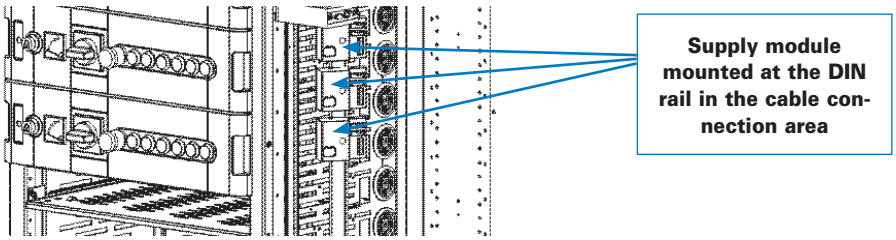
Line adapter SWD4-FFR-ST1-1 **and** **Supply module SWD-FFR-PF1-1**



VT03212

Explanation of the supply module

You need to plan one supply module supplied with 24 VDC (back-up fuse max. 40 A) for each drawer. It is only thanks to this module that the pulling and pushing of the drawers is possible without any effect. Supply modules are fixed at the DIN rail (see drawing) in the cable connection area, at the level of the drawers.



Smart_Wire_1

Explanation of the line adapter

You will need a line adapter for each drawer. This adapter will be connected with the supply module via the auxiliary current contacts using conventional wiring. In the drawer as such all participants are connected through the SW-DT flat cable, the beginning and the end of the flat cable must be connected with the line adapter. There is also a 24 VDC / max 2 A voltage tap available, which can be used to supply more consumers. The line adapter also offers the possibility to interrupt the activation of contactors by using a release terminal. This is necessary if you wish to include an emergency stop button or a safety chain, for example.

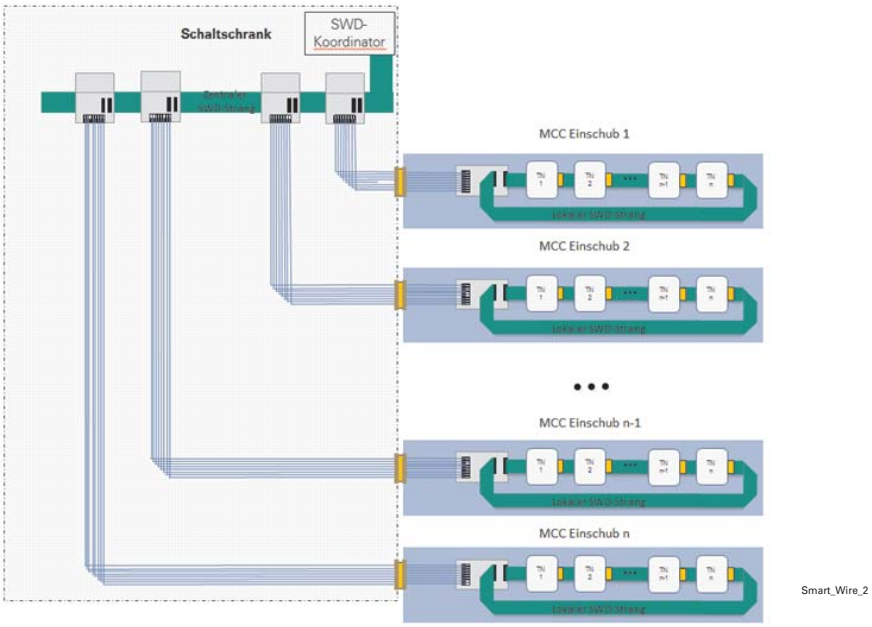
Connection between supply module (SWD-FFR-PF1-1) and line adapter (SWD4-FFR-ST1-1)

The connection between these two additional devices is established by means of conventional wiring. There is no SW-DT flat cable necessary. Each device is equipped with 8 spring-type terminals which need to be connected through auxiliary current terminals (with the same numbers).

SWD Gateway

PROFIBUS DP, CANopen, Ethernet IP and Modbus TCP-Gateways ensure the data exchange with the higher level of the control system. They provide the most important field bus connections for the most common control functions. The Gateway is positioned in the cable connection area, but it can variably be adjusted or placed there depending on the space available.

SWD Gateway



Smart_Wire_2

Mechanical Setup of MCC with SmarWire-DT®

Cabinet:

Generally there is no difference between sections with a SW-DT setup and normally wired MCC sections. In the cable connection area, the SWD4-FFR-PF1-1 supply module can be snapped onto the DIN rail which is also required for conventional wiring of control functions. The Gateway is usually mounted at the vertical DIN rail, at the top or at the bottom of the cable connection area (depending on the cable routing).

Drawer unit:

Generally you can use standard drawers. There are expansion sets available to make them Smart Wire compatible. These expansion sets exist in all drawer sizes and are compulsory if SmartWire needs to be used in the drawers. The line adapter will be snapped onto a DIN rail included in the expansion set.

For more information on Installation and Mounting Instructions, please visit:
www.xEnergy-partner.com

Soft-Starter in xEnergy Main MCC and iMCC

For the power range from 1.1 to 15 kW (3-32 A) you can use soft starter solutions in XW drawer sections. The Soft Starter series DS7 sizes 1+2 are incorporated in XW drawers and tested to IEC 61439.

Technical Details

Versions	DOL, FR (direct starter, reverse starter)
Rated short-time withstand current	50 kA, 80 kA
Drawer heights	75, 150, 225 mm
Versions/finishes	
Standard	without SW-DT for normal MCC application
Basic	with SW-DT, but without reading of the circuit breaker (iMCC application)
Complete	with SW-DT and reading of the circuit breaker - electronic tripping (iMCC application)
Degree of protection	IP31, IP55
Power	1.5 -15 kW
Assignment type	Type 2
Ambient temperature	35 °C

Setup/Installation

The soft starter can be installed in standard drawers where additional expansion sets can be fixed to establish the pre-requisites for soft starters. These retro-fitting sets include a DIN rail (L = depending on the drawer height) and screws. Installation must be done according to our installation guideline (IL – XMW..06SS-161/162/163).

Electric components

Configuration of the electric components has to be done according to the XW_DS7_Drawer_Outgoing_Unit_List. This list details all the electric components necessary for the different variants of drawers.

You can find the complete documentation on our xEnergy Main homepage at www.xEnergy-Partner.com

Different finishes of drawers:
There are 3 different versions of drawer finishes with soft starter.

Standard: In the standard version the soft starter and all electric components are wired and controlled in the conventional way.

Basic: In the Basic version, the control wiring is carried out using a
SmartWire-DT. There is no conventional control wiring. The circuit breaker includes a thermomagnetic tripping unit, therefore it is not possible to make a query of the current parameters via SW-DT.

Complete: In the Complete version, a SmartWire-DT is used for control wiring. There is no conventional control wiring. As there is an electronic tripping unit incorporated in the circuit breaker, it is possible to make a query and read the status of each individual parameter at any time via the SW-DT.

Max. Current Load and Power Loss for dropper bars in a XW section

Dropper bar:
Center-to-center distance between phases = 60 mm
Rated current I_n = up to 1600 A
Rated short-time withstand current I_{cw} = up to 80 kA

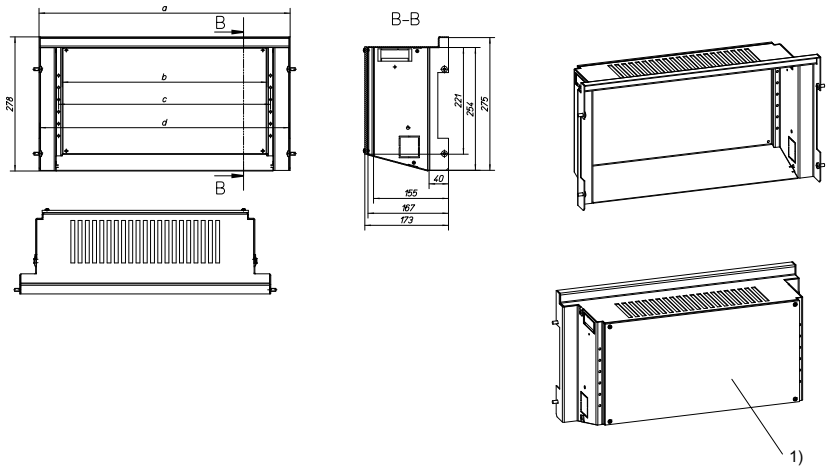
I_e up to	Busbar cross-section	Degree of protection	Admitted permanent current I depending on the ambient temperature and the degree of protection of the distribution sections			Power loss P_v		
A	mm²		25 °C A	35 °C A	50 °C A	25 °C W/m	35 °C W/m	50 °C W/m
1000	1 x 40 x 10	IP31	1000	1000	1000	61	61	61
		IP42	1000	1000	1000	61	61	61
		IP55	1000	980	900	61	59	50
1600	2 x 40 x 10	IP31	1730	1600	1400	98	84	64
		IP42	1730	1600	1400	98	84	64
		IP55	1330	1300	1250	58	56	51

Short-Circuit Strength for dropper bars in a XW section

I_e up to	Busbar cross-section	Short-circuit strength	Max. distance between busbar supports center-to-center
A	mm²	kA	mm
1000	1 x 40 x 10	35 / 1s	375
		50 / 1s	225
		65 / 1s	225
1600	2 x 40 x 10	35 / 1s	375
		50 / 1s	225
		65 / 1s	225
		80 / 1s	225
		50 / 3s	225

Wiring module

- The wiring module is mounted in front of the main busbar.
  Where necessary, the module can be equipped with an additional DIN rail so as to be able to conveniently accommodate electrical components with a DIN rail fixing. The module also offers the possibility to install a cable duct for any control wiring/cross-wiring of the system. The cable duct itself is made of plastic-coated metal.
  Various holes or pre-punched areas are included both in the cable duct and in the wiring module to ensure convenient wiring of the system. The rear of the module is planked with an additional insulating partition of 3 mm (see fig. 1).

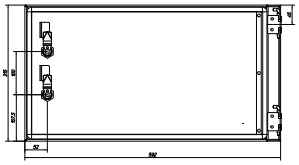


Metering_compartment_RearAccess_ASSEM_H250

1) Additional insulating partition at the rear

	a	b	c	d
W600	520	424	439	517
W800	720	624	639	717
W1000	920	824	839	817

Dimensions wiring module:



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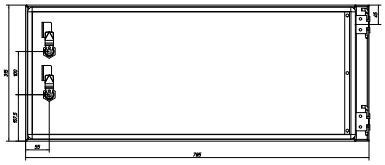

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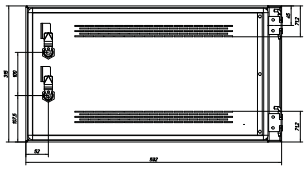

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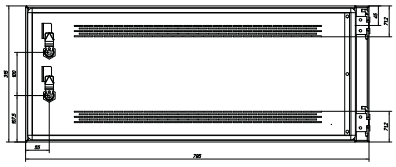

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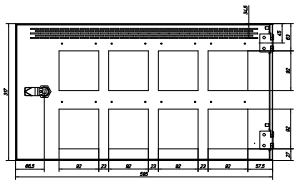

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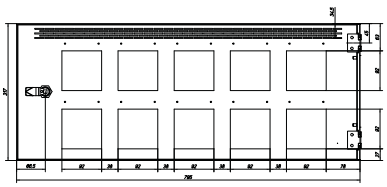

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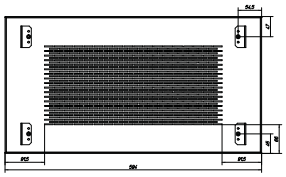

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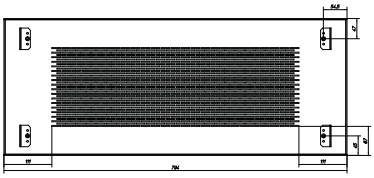

192912

DF_Busbar Chamber Filler

xEnergy Main Switchboards

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NEW

xEnergy Main Switchboards

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123502	146	123567	211	123632	276	123697	341	123762	406
123503	147	123568	212	123633	277	123698	342	123763	407
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123505	149	123570	214	123635	279	123700	344	123765	409
123506	150	123571	215	123636	280	123701	345	123766	410
123507	151	123572	216	123637	281	123702	346	123767	411
123508	152	123573	217	123638	282	123703	347	123768	412
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NEW

ARCON Specific xEnergy Main Parts

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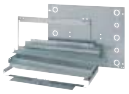
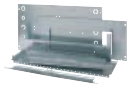
Set of partitions including mounting plates for short-circuit unit

In order to prevent unwanted tripping of the ARCON unit due to light flashes that occur during standard activation of circuit breakers, additional partitions/light barriers are necessary. These additional components are integrated into the section variants featuring standard design and standard setup.

vt19016



vt18716



Circuit breaker	Section width mm	Poles	ACB ARCON set of partitions and mounting plates Set - withdrawable Set includes: Mounting plate for quenching device, mounting plate in 2 parts (= cover of quenching device), partition below ACB's, various fixing brackets and screws Article No. per pack/unit Pack = 1 Set	ACB ARCON set of partitions and mounting plates Set - fixed Set includes: Mounting plate for quenching device, mounting plate in 2 parts (= cover of quenching device), partition below ACB's, various fixing brackets and screws Article No. per pack/unit Pack = 1 Set
IZMX40	600	3	**XMIX40W06-ARC** 184811	**XMIX40F06-ARC** 184814
	800	3+4	**XMIX40W08-ARC** 184812	**XMIX40F08-ARC** 184815
	1000	3+4	**XMIX40W10-ARC** 184813	**XMIX40F10-ARC** 184816
IZM63	1100	3	**XMI63W11-ARC** 184817	-
	1350	3+4	**XMI63W135-ARC** 184818	-

Set of partitions without mounting plates for short-circuit unit

In order to prevent unwanted tripping of the ARCON unit due to light flashes that occur during standard activation of circuit breakers, additional partitions/light barriers are necessary. These additional components are integrated into the section variants featuring standard design and standard setup.

vt48016



vt48216



Circuit breaker	Section width mm	Poles	ACB ARCON set of partitions and mounting plates Set - withdrawable Set includes: various partition panels, incl. fixing brackets and screws Article No. per pack/unit Pack = 1 Set	ACB ARCON set of partitions and mounting plates Set - fixed Set includes: various partition panels, incl. fixing brackets and screws Article No. per pack/unit Pack = 1 Set
IZMX16	425	3	**XPA-IZMX16-W04-BBB** 187148	**XPA-IZMX16-F04-BBB** 187150
	600	3+4	**XPA-IZMX16-W06-BBB** 187149	**XPA-IZMX16-F06-BBB** 187151
IZMX40	600	3+4	**XPA-IZMX40-W06-BBB** 187152	**XPA-IZMX40-F06-BBB** 187155
	800	3+4	**XPA-IZMX40-W08-BBB** 187153	**XPA-IZMX40-F08-BBB** 187156
	1000	3+4	**XPA-IZMX40-W10-BBB** 187154	**XPA-IZMX40-F10-BBB** 187157
IZM63	1100	3	**XPA-IZM63-W11-BBB** 187158	-
	1350	3+4	**XPA-IZM63-W135-BBB** 187159	-

Set of partitions without mounting plates for short-circuit unit

In order to prevent unwanted tripping of the ARCON unit due to light flashes that occur during standard activation of circuit breakers, additional partitions/light barriers are necessary. These additional components are integrated into the section variants featuring standard design and standard setup.

vt40516



vt40616



Circuit breaker	Section width mm	Poles	ACB ARCON set of partitions and mounting plates Set - withdrawable Set includes: Light barriers below the ACB's, 2 pcs. universal mounting plates, 2 pcs. light separations above the ACB's, 2 pcs. mounting profiles, incl. screws Article No. per pack/unit Pack = 1 Set	ACB ARCON set of partitions and mounting plates Set - fixed Set includes: Light barriers below the ACB's, 2 pcs. universal mounting plates, 2 pcs. light separations above the ACB's, 2 pcs. mounting profiles, incl. screws Article No. per pack/unit Pack = 1 Set
IZMX16	400	3+4	**XTPPIX16W-04-ARCON** 187314	**XTPPIX16F-04-ARCON** 187312
	600	3+4	**XTPPIX16W-06-ARCON** 187315	**XTPPIX16F-06-ARCON** 187313
	800	3+4	**XTPPIX40W-W800-ARCON** 187140	**XTPPIX40F-W800-ARCON** 187139

Support plate for Short-circuit Unit

The support plate is located above the main busbar and mounted together with a special version of the roof panel.

Section width mm	Section depth mm	Support plate short-circuit unit Article No. per pack/unit Pack = 1 pc.
independent	800	**XTPZBAVP-ARCON** 187138

Doors - Main busbar Rear

With cut-out for ARCON Master.

vt17716



Circuit breaker	Section width mm	Door height mm	Door to switchgear area, with cut-out for Master unit (193 x 139 mm) Set includes: door incl. locking system, 2x hinges, 2x locking hooks, 1x cross-bar incl. fixing bracket, screws Article No. per pack/unit Pack = 1 Set
IZMX40	600	650	**XSDMC0606-ARC** 184806
	800	650	**XSDMC0608-ARC** 184807
	1000	650	**XSDMC0610-ARC** 184808
IZM63	1100	650	**XSDMC0611-ARC** 184809
	1350	650	**XSDMC06135-ARC** 184810

Doors - Main busbar Top

vt42716



Circuit breaker	Section width mm	Door height mm	Door to switchgear area, with cut-out for Master unit (193 x 139 mm) Set includes: door incl. locking system, 2x hinges, 2x locking hooks, 1x cross-bar incl. fixing bracket, screws Article No. per pack/unit Pack = 1 Set
IZMX40	800	450	**XTSZDSQC-H450W800-ARCON** 187160

Top panel - Main busbar Top

vt41016



Section width mm	Section depth mm	Degree of protection	Top panel Special version for the short-circuit unit. Inkl. screws Article No. per pack/unit Pack = 1 Set
800	800	IP31	**XTSZPTAV-W800-ARCON** 187143
		IP42	**XTSZPTAPA-W800-ARCON** 187141
		IP55	**XTSZPTAC-W800-ARCON** 187142

The area for connecting the individual modules is not actively monitored by ARCON. Therefore this area needs to be upgraded to an arc-fault protected zone. By using the following accessories, the concerned sections can be upgraded to IP4XD (no penetration of/contact with live parts by foreign bodies ≥ 1 mm).

For fixed circuit breakers

vt39516 

vt39716 

vt39916 

vt39316 

vt39416 

Poles	Partition accessories for NZM1 modules Article No. per pack/unit Pack = 1 pc.	Partition accessories for NZM2 modules Article No. per pack/unit Pack = 1 pc.	Partition accessories for NZM3 modules Article No. per pack/unit Pack = 1 pc.	Partition accessories for PKZM0/01 and PKE12/32 modules Article No. per pack/unit Pack = 1 pc.	Partition accessories for PKZM4/PKE65 modules Article No. per pack/unit Pack = 1 pc.
3	**XPA-NZM1-3-ARC** 185204	**XPA-NZM2-3-ARC** 185206	**XPA-NZM3-3-ARC** 185208	**XPA-PKE32-ARC** 185202	**XPA-PKE65-ARC** 185203
4	**XPA-NZM1-4-ARC** 185205	**XPA-NZM2-4-ARC** 185207	**XPA-NZM3-4-ARC** 185209	-	-

For circuit breakers with plug-in unit/withdrawable unit (NZM3)

Poles	Partition accessories for NZM1 Article No. per pack/unit Pack = 1 pc.	Partition accessories for NZM2 Article No. per pack/unit Pack = 1 pc.	Partition accessories for NZM3 Article No. per pack/unit Pack = 1 pc.
3	**XPA-NZM1-3-XSV-ARC** 185216	**XPA-NZM2-3-XSV-ARC** 185217	**XPA-NZM3-3-XSV-XAV-ARC** 185219
4	-	**XPA-NZM2-4-XSV-ARC** 185218	**XPA-NZM3-4-XSV-XAV-ARC** 185220

For Plug-In Modules (XR)

vt40116



vt40316



Poles	Partition accessories for NZM1 modules Article No. per pack/unit Pack = 1 pc.	Partition accessories for NZM2 modules Article No. per pack/unit Pack = 1 pc.	Partition accessories for NZM3 modules Article No. per pack/unit Pack = 1 pc.
3	**XPA-NZM1-3-XKR-ARC** 185210	**XPA-NZM2-3-XKR-ARC** 185212	**XPA-NZM3-3-XKR-ARC** 185214
4	**XPA-NZM1-4-XKR-ARC** 185211	**XPA-NZM2-4-XKR-ARC** 185213	**XPA-NZM3-4-XKR-ARC** 185215

For Plug-In modules with rear connection (XR)

Poles	Partition accessories for NZM1 modules Article No. per pack/unit Pack = 1 pc.	Partition accessories for NZM2 modules Article No. per pack/unit Pack = 1 pc.	Partition accessories for NZM3 modules Article No. per pack/unit Pack = 1 pc.
3	**XPA-NZM1-3-XKR-XSV-ARC** 185221	**XPA-NZM2-3-XKR-XS-ARC** 185222	**XPA-NZM3-3-XKR-XSV/XAV-ARC** 185224
4	-	**XPA-NZM2-4-XKR-XSV-ARC** 185223	**XPA-NZM3-4-XKR-XSV/XAV-ARC** 185225

Central Unit

VT37014



Article No.
per pack/unit
Pack = 1 pc.

ARC-EM/2.0
172749

– Indication of the system status on a display and by LEDs
– 2 different tripping criteria, freely selectable:
  light detection only --> activation of the trip relays (without quenching device)
  light and current detection --> activation of the quenching device + trip relays
– Separate monitoring of two busbar sections
– Separate activation of two quenching devices, response time ~ 1 ms
– Two potential-free normally open contacts (trip relays) for each busbar section, for activating the shunt-trip release
– One potential-free normally open contact as a sum message in the event of an arc fault
– One potential-free normally open and normally closed contact each as an alarm contact for fault alarms
– Continued self-monitoring of the system
– Connection of three current transformers for current measurement (L1/L2/L3)
– Up to 16 Slave modules can be connected (depending on the line length, the Slave modules must separately be supplied with voltage)

Slave for accommodating the line-shaped light sensors

VT37514



Article No.
per pack/unit
Pack = 1 pc.

ARC-EL3/2.0
172751

– Accommodation of up to 3 line-shaped light sensors
– Connection possibility for the mobile light sensor
– Indication of activated or faulty sensors
– Assignment of busbar zones by means of addressing
– 1 configurable potential-free normally open contact for activating the shunt-trip release

Slave for overcurrent detection

VT37714



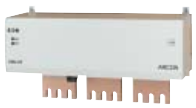
Article No.
per pack/unit
Pack = 1 pc.

ARC-EC1/2.0
172750

– Connection of three current transformers for overcurrent measurement (L1/L2/L3)
– Indication of overcurrent at the respective current transformer contact
– 1 configurable potential-free normally open contact for activating the shunt-trip release

Quenching Device

VT37914



Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.
ARC-AT-T 283712	**ARC-AT-B** 283713

– Generates a three-phase short-circuit in less than 1 ms
– Rated short-time withstand current Icw (tested):
  85 kA / 1 s
  105 kA / 0.5 s
  150 kA / 0.2 s
– Fast replacement thanks to open long-holes at the copper connections
– LED indication of operation and tripped
– Easy handling during assembly thanks to "key-holes" in the fastening straps
– ARC-AT-T: Installation at the top
– ARC-AT-B: installation at the bottom

Line-shaped Light Sensor

VT38214



– Blue protective hose for a better filtering effect and reduction of arc-fault sensitivity
– Temperature stability up to max. 125 °C (active sensor range)
– Continued self-monitoring
– Tensile load ≤10 N
– Minimum bending radius ≥30 mm

Total length / active sensor length m / m	Article No. per pack/unit Pack = 1 pc.
10 / 5	**ARC-SL10/BL** 179679
11 / 6	**ARC-SL11/BL** 179680
12 / 7	**ARC-SL12/BL** 179681
13 / 8	**ARC-SL13/BL** 179682
15 / 10	**ARC-SL15/BL** 179683
17 / 12	**ARC-SL17/BL** 179684
20 / 15	**ARC-SL20/BL** 179685
25 / 20	**ARC-SL25/BL** 179686

Mobile Light Sensor

VT38114



– Light sensor for temporary use
– Improved protection of people working under live conditions
– Inclusion into the system without reconfiguration
– Can be connected to at all visual detection units

Article No. per pack/unit Pack = 1 pc.
ARC-SM 283711

Accessories

ARC-CC02



ARC-CCAT05



Length m	Communication lines for Master-Slave and Slave-Slave connection Article No. per pack/unit Pack = 1 pc.	Communication lines for Master-Quenching-Device connection Article No. per pack/unit Pack = 1 pc.	Extension cable for Master-Quenching-Device connection (female-male) Article No. per pack/unit Pack = 1 pc.
0.5	**ARC-CC00** 286390	-	-
1	**ARC-CC01** 286391	-	-
2	**ARC-CC02** 286392	**ARC-CCAT02** 184525	**ARC-ECAT02** 184526
3	**ARC-CC03** 170488	-	-
5	**ARC-CC05** 286393	**ARC-CCAT05** 100038	-
7	**ARC-CC07** 170489	-	-
10	**ARC-CC10** 286394	**ARC-CCAT10** 100039	-
15	**ARC-CC15** 286395	**ARC-CCAT15** 100040	-
20	**ARC-CC20** 286396	**ARC-CCAT20** 100041	-

Shrink Sleeve

Shrink Sleeve Roll of 5 m Colour black Diameter 6.4/3.2 mm	Shrink Sleeve Roll of 5 m Colour black Diameter 12.7/6.4 mm	Shrink Sleeve Roll of 5 m Colour black Diameter 25.4/12.7 mm	Shrink Sleeve Roll of 5 m Colour black Diameter 38.1/19.5 mm
Article No. per unit 1 unit = 1 roll	Article No. per unit 1 unit = 1 roll	Article No. per unit 1 unit = 1 roll	Article No. per unit 1 unit = 1 roll
ARC-SRT/BK/064/032/5M 184972	**ARC-SRT/BK/127/064/5M** 184973	**ARC-SRT/BK/254/127/5M** 184974	**ARC-SRT/BK/381/195/5M** 184975

Insulation Tape, Fixing Clip, Fixing Bracket, Cellular Rubber

	vt43316	vt43016	vt43216	vt43516
				
Electrical insulation tape self-sealing, Roll of 7 m, black	Fixing clip for line sensor	Fixing bracket for line sensor Fixing bracket on copper 10 mm	Fixing clip for line sensor	Cellular rubber 20 mm
Article No. per unit 1 unit = 1 roll	Article No. per unit Pack = 100 units	Article No. per unit Pack = 100 units	Article No. per unit Pack = 500 units	Article No. per unit Pack = 500 units
ARC-TAPE/025/7M 184976	**ARC-CL095** 184970	**ARC-MB814** 184971	**ARC-MF** 289008	**ARC-MFR** 289009

Adhesive Socket

vt43116



Adhesive socket

Article No.
per unit
Pack = 100 units

ARC-MKS
104541

ARCON - Technical Data

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• Arc-fault protection up to 100 kA ..... Page xx
• Arc-fault protection system ..... Page xx
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• Technical data ..... Page xx
• Dimensions ..... Page xx

The consequences of an arc fault are well comparable with those of an explosion. They can include personal injuries, massive damage to the switchgear system and weeks of production standstill or even the need to completely replace the damaged switchgear system. In the worst case the production standstill can lead to bankruptcy because customers may find an other supplier in the meantime.
System availability is an extremely critical factor in today's competitive business environment, so it is important to take appropriate protective measures. IT centres, tunnel supplies and power supplies for uninterrupted manufacturing processes in chemical industry are among the main application areas of ARCON®.

The two main functions of ARCON are:

Personal protection

Errors while working on live switchgear systems can be fatal. Nowadays, all renowned manufacturers of low-voltage switchgear systems offer an arc-fault protected version of their switchgear systems. However, personal protection is usually tested under unrealistic conditions with the switchgear system being closed. But according to statistical data provided by BGETEM, 2 out of 3 accidents happen while the switchgear system is opened. This is what we have to be aware of, and technical solutions need to be provided to maintain effective protection even while the switchgear system is opened.
Therefore Eaton teamed up with the Technical University TU Ilmenau to do some fundamental research. The outcome was that only extremely fast protection systems can provide "real" personal protection. With arc quenching times of only 2 ms, ARCON accomplishes unprecedented personal protection.

System protection

The impact of an arc fault can knock low-voltage switchgear systems out of service for weeks. If there is no backup energy supply system available, unwanted production downtimes will be the consequence. Here too, the only remedy is an effective system protection that limits the effects of an arc fault to a minimum and allows fast restarting the system. ARCON limits the effects of an arc fault to its root points. Once the cause has been eliminated and the quenching device has been replaced, the system will be operative again in no time at all and the required system availability will be restored.

With the ARCON Arc-Fault Protection system

Personal and system protection up to 100 kA

With the ARCON arc-fault protection system consisting of sensors, evaluation unit and quenching device, a maximum of protection for people and systems can be guaranteed up to 100 kA.
The impacts of an arc fault are limited to the root points of the arc fault. The switchgear system is ready to operate again as soon as the cause of the fault has been eliminated and the quenching device has been replaced. ARCON provides its protection under arc-fault conditions as of a conditional short-circuit current of $I_{pc\ arc}$ = 7.5 kA.

Test standard
IEC/TR 61641: 2014 Edition 3.0

Test data
- Conditional short-circuit current admitted under arc-fault conditions: $I_{pc\ arc}$ up to 100 kA
- Test voltage: U_e = 415 V
- Duration of the power flow: t = 300 ms
- Quenching of the arc fault: < 2 ms
- Rated short-time withstand current: I_{cw} = 85 kA_{eff} / 1 s
  of the quenching device: I_{cw} = 105 kA_{eff} / 0.5 s
  I_{cw} = 150 kA_{eff} / 0.2 s
- Limitation to the root points

Basic equipment of the distribution sections
- Electronic evaluation unit (Master) ARC-EM/2.0
- Electronic evaluation unit (Slaves) ARC-EL3/2.0 and ARC-EC1/2.0
- Light sensors ARC-SLxx/BL
- Standard current transformer
- Standard setup of XP sections with modified partitions and carrier plates for quenching device
- Connection cable ARC-CCxx
- Quenching device ARC-AT-T /-B
- Connection cable ARC-CCATxx

Installation in
an xEnergy Main system/main busbar rear up to 5500 A or main busbar top up to 4500 A

Installation of the components

Lichtsensoren ARC-SLxx/BL
- Hauptsammelschiene und Verteilschienenbereich
- Verbindungsschiene von der Hauptsammelschiene zum Leistungsschalter
- Schienenverbindung vom Leistungsschalter zum Abgang

Lichtsensoren können zum Anschluss an eine Electronic evaluation unit (Slave) ARC-EL3/2.0 maximal bis ins benachbarte Section geführt werden. Die Slaves ARC-EL3/2.0 sind dementsprechend zu positionieren.
Pro Section und pro Sammelschiene genügt ein Sensor ARC-SLxx/BL.

Stromsensoren
- In allen Einspeisungen, vor den Leistungsschaltern
- Beim Einsatz von Wandlertrennklemmen sind die Geräte elektrisch zwischen Wandler und Trennklemme zu positionieren, damit auch bei gebrückten Wandlertrennklemmen die Funktion aufrecht erhalten bleibt.
- Bei externer Strommessung muss ein separater Wandlersatz eingebaut werden.

Zum Einsatz kommen Standard-Current transformer mit einem Sekundärstrom von IN = 1 A oder 5 A. Werden Messwandler eingesetzt, können diese durch Reihenschaltung auch als Stromsensor verwendet werden.

Electronic evaluation unit (Slave) ARC-EL3/2.0 für drei linienförmige Lichtsensoren und Electronic evaluation unit (Slave) ARC-EC1/2.0 für einen Current transformersatz.
Im Funktionsraum oberhalb oder unterhalb des Schaltgeräteraumes (ACB/offener Leistungsschalter).

Electronic evaluation unit (Master) ARC-EM/2.0
- In der Fronttür eines XP-Feldes

Quenching device ARC-AT
- Einbau im Funktionsraum (oberhalb oder unterhalb des Leistungsschalters im XP-Section)
- Section width ab 600 mm
- In Kombination mit IZMX40/IZM63 als Eingangsschalter realisierbar

Functional description

The ARCON arc-flash protection system consists of light sensors and current sensors, the electronic evaluation units and the quenching de-vice.
In addition, so-called arc-fault protected zones must be created in the outgoing sections. In every module's area, this applies to the connection line from the dropper bar into the module, to the terminals of the switch. For this purpose, we provide special partition sets and accessories. The installation has to be carried out in accordance with the build-ing and installation instructions.

Using ARCON line sensors based on optical fibre, main busbars and dropper bars as well as all bar connections and connection systems can be monitored along their entire length (in a line-shaped way). One light sensor is necessary for each main busbar system in each section.

The arc current is captured by measuring transformers upstream every feeder circuit breaker. Here you can use conventional transformers with secondary currents of either 1 A or 5 A.

In order to prevent unwanted tripping, several additional measures need to be taken for all circuit breaker modules. These measures need to be taken for all XP sections with air circuit breakers (ACB). Light flashes generated when activating the circuit breakers must be kept away from the light sensors.
Partition sets need to be selected according to the section width and the type of circuit breaker.

Outgoing sections

The connection area of the individual modules is not actively monitored by ARCON. Therefore this area needs to be upgraded to an arc-fault protected zone. Using the following accessories, these zones can be upgraded to IP4XD (no penetration of/contact with live parts by foreign bodies ≥ 1 mm).
Partition sets need to be selected according to section variants, circuit breaker sizes and their different versions.

General notes on the ARCON arc-fault protection system

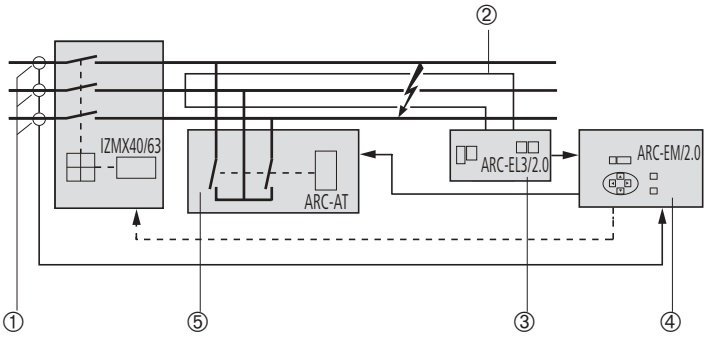
Tripping of the feeder circuit breakers
All circuit breakers (or couplers) feeding the busbar zone to be protected (zone) will trip at the same time when an arc-fault occurs. → Each circuit breaker needs to be equipped with a shunt-trip release!

Availability
The system has to be equipped with an uninterruptable backup power supply system (e.g. UPS as a backup).

Configuration example with one main busbar system (to be used with main busbar system rear or top)

Functional principle

Arc-fault protection up to 100 kA

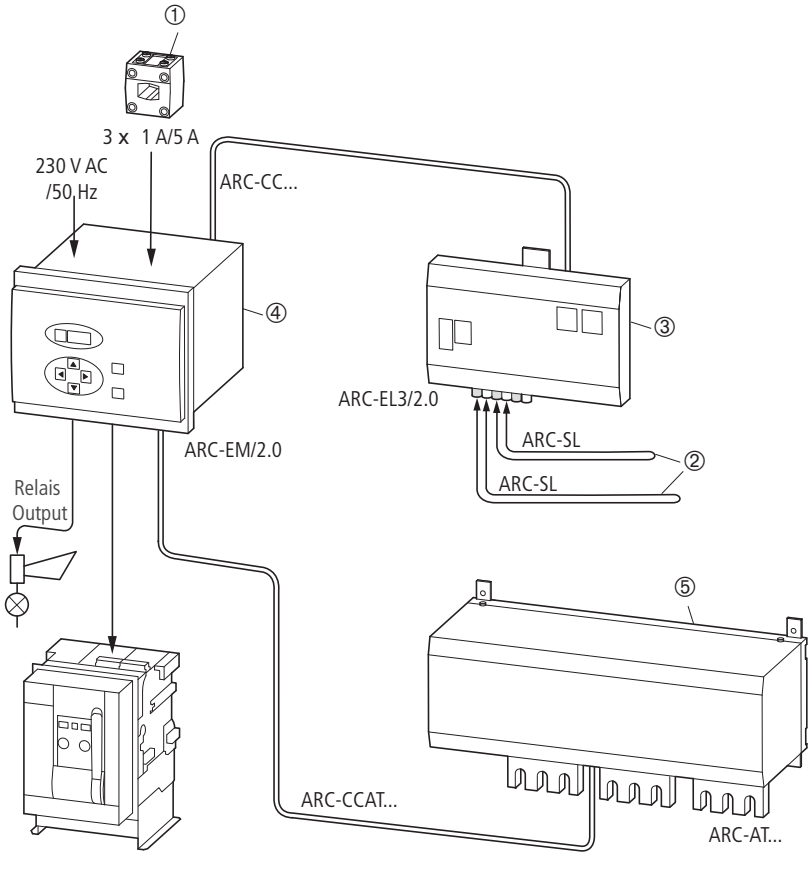


ARCON_Funktionsprinzip

- Electronic evaluation unit, light and current sensors and quenching device
- Quenching of the arc within 2 ms using a quenching device

① Current transformer
② Line-shaped light sensor ARC-SLxx/BL
③ Electronic evaluation unit (Slave) ARC-EL3/2.0
④ Electronic evaluation unit (Master) ARC-EM/2.0
⑤ Quenching device ARC-AT...

Components

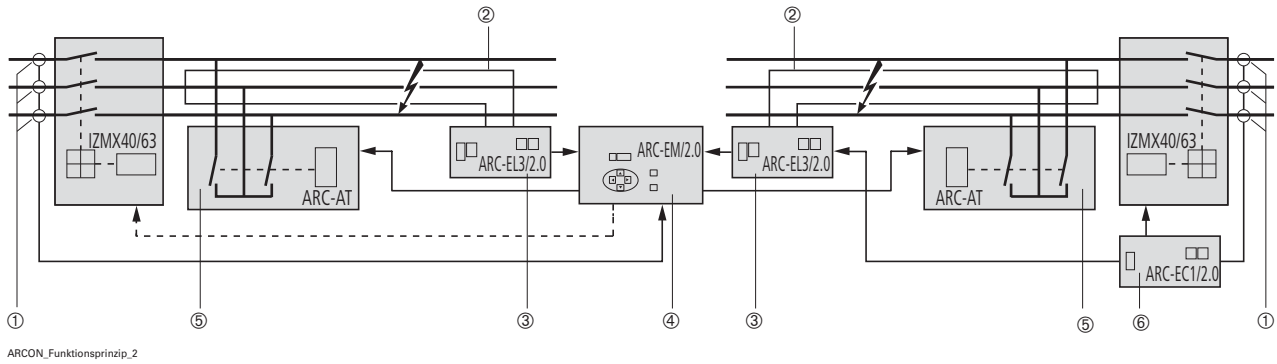


ARCON_Komponenten

Configuration example with two main busbar systems (to be used with main busbar system rear or top)

Functional principle

Arc-fault protection up to 100 kA



ARCON_Funktionsprinzip_2

- Electronic evaluation unit, light and current sensors and quenching device
- Quenching of the arc within 2 ms using a quenching device

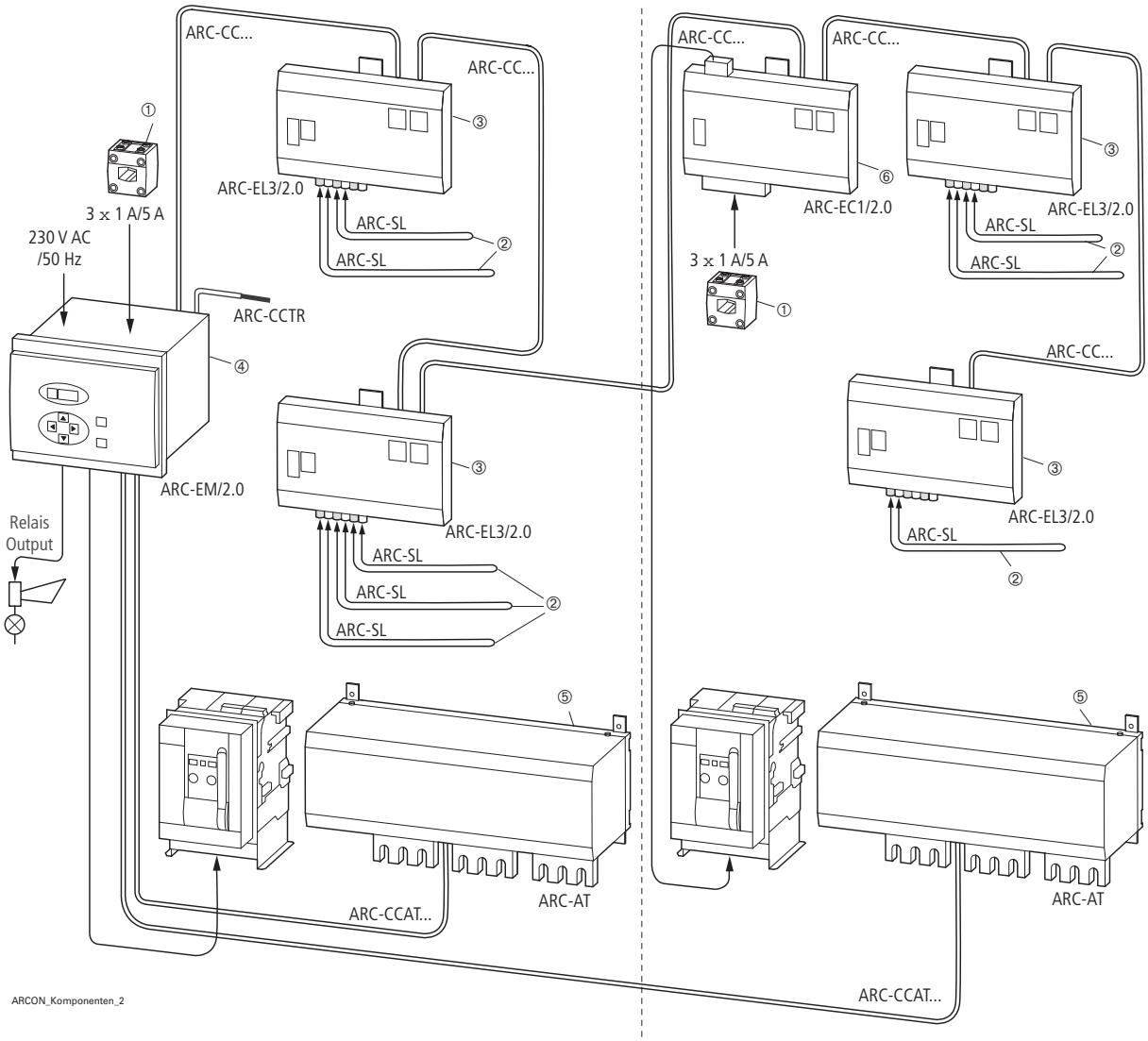
① Current transformer
② Line-shaped light sensor ARC-SLxx/BL
③ Electronic evaluation unit (Slave) ARC-EL3/2.0
④ Electronic evaluation unit (Master) ARC-EM/2.0
⑤ Quenching device ARC-AT...

Only necessary as of two feeders:
⑥ Electronic evaluation unit (Slave) ARC-EC1/2.0

Components

Main busbar system 1

Main busbar system 2



ARCON_Komponenten_2

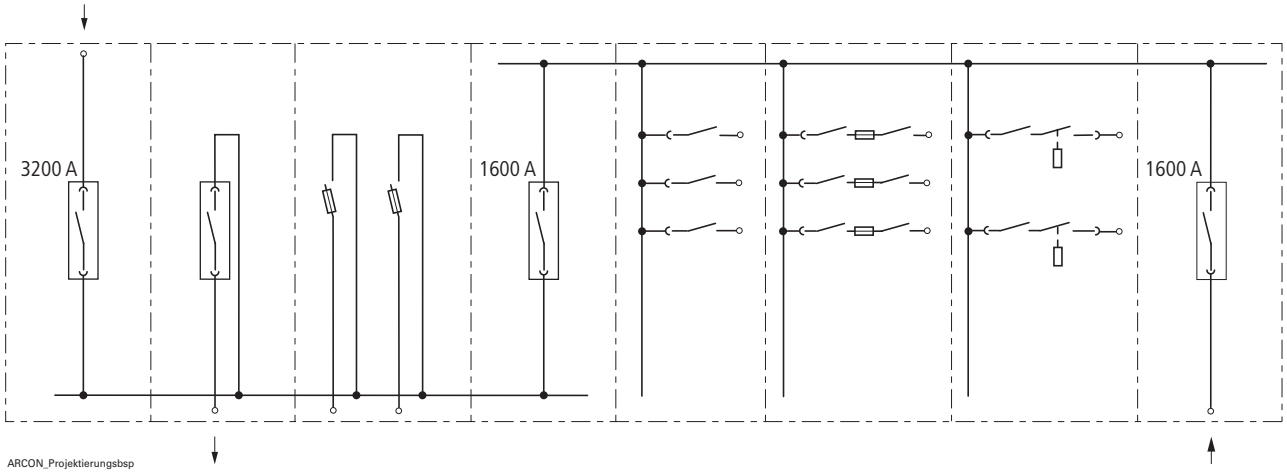
Description of the switchgear system

The switchgear system consists of 8 sections, has 2 main busbar zones with one feeder each. Thanks to the coupler switch in section 4, both main busbar zones can be interlinked. The feeder in section 1 is supplied by a transformer via a busbar trunking system.

The feeder in section 8 is supplied by an emergency backup generator via a cable. In section 1 a 3200 A circuit breaker is used, in section 8 and section 4 a 1600 A circuit breaker is used. All circuit breakers are in withdrawable design.

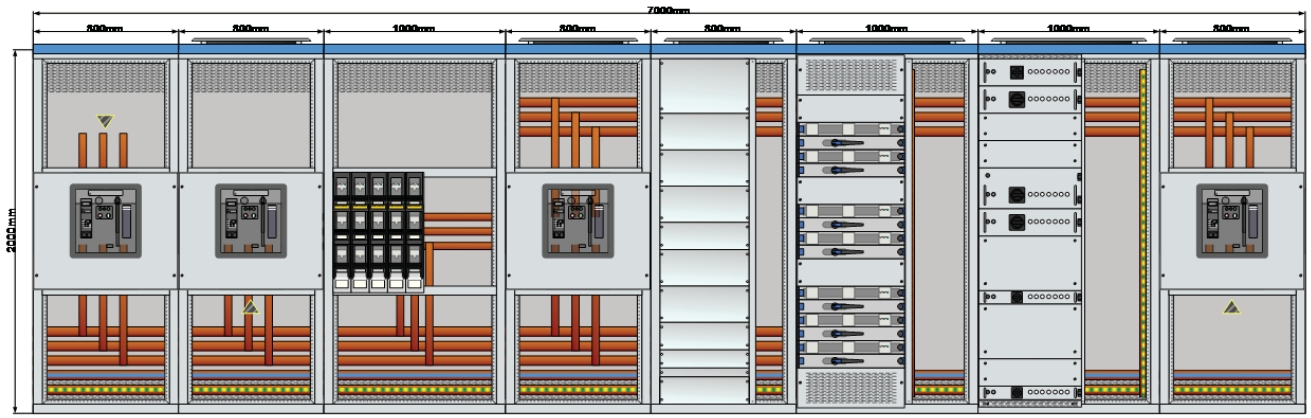
Task

Installing the ARCON arc-fault protection system in this switchgear system.



ARCON_Projektierungsbsp

Section no. 1 2 3 4 5 6 7 8



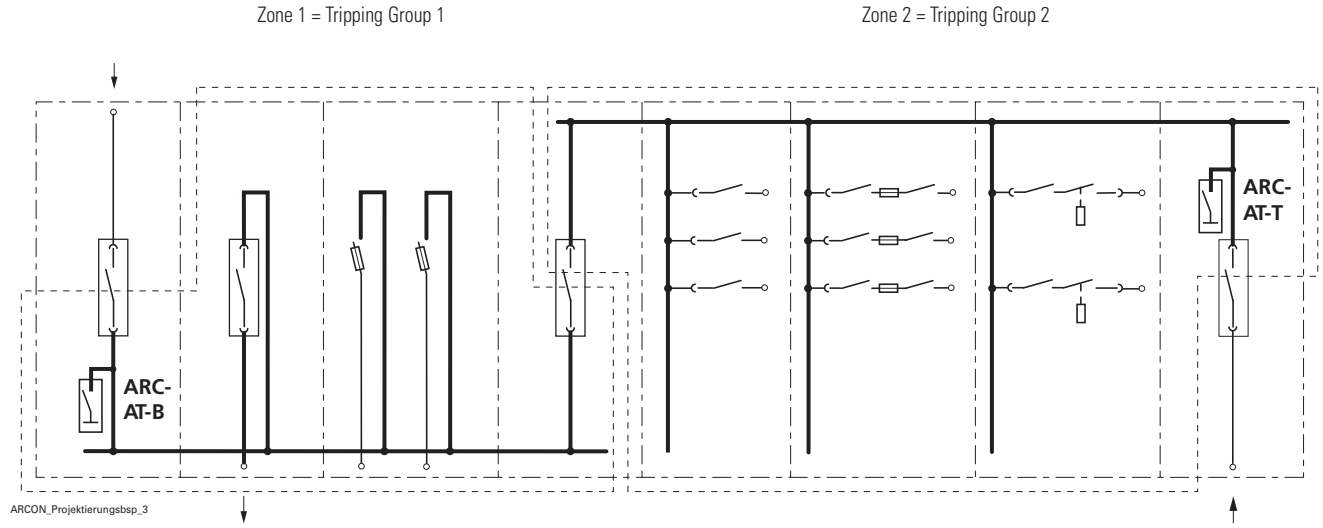
ARCON_Projektierungsbsp_2

Single-pole connection diagram and front view of the switchgear system example
Depth = 600 mm

Step one

Definition of the zones to be protected:
ARCON is able to selectively protect the main busbar zones within the switchgear system, i.e. that only the zone affected by an arc fault will be switched off. The rest of the switchgear system continues in operation. An affected zone will be limited by the feeder circuit breakers and the coupler switches. In our example, we have two zones to be protected, i.e. we need two quenching devices. (Number of zones = number of quenching devices).

If possible, the quenching devices should be positioned in the feeder section in order to keep the strain on the switchboard systems due to the short-circuit as low as possible in case they are activated. In section 1 of our example (feeder LD bar from the top) you will need a device for installation at the bottom ARC-AT-B (bottom) and in section 8 (feeder via cable from the bottom) you will need a device for installation at the top, ARC-AT-T (top). The inserts will need to be selected depending on the feeder sections.



Division of the switchgear system example into zones (protected zones).

ARCON specific parts to be added to the parts list:

Section	Quantity	Type	Art.-No.	Description
1	1	ARC-AT-B	283713	Quenching device, installation at the bottom (for zone 1)
8	1	XSDMC0608-ARC	184807	Door with ARCON cut-out
1, 2, 4, 8	1 unit each	XMIX40W08-ARC	184812	Set of partition/mounting plates for quenching device/fixed
8	1	ARC-AT-T	283712	Quenching device, installation at the top (for zone 2)
5	5	XPA-NZM3-3-ARC	185208	Partition set for NZM3/Fixed
7	4	XPA-NZM2-3-ARC	185206	Partition set for NZM2/Fixed
7	2	XPA-PKE32-ARC	185202	Partition set for PKZM0

Note: The system must have a minimum internal separation of Form 2b.

Step two

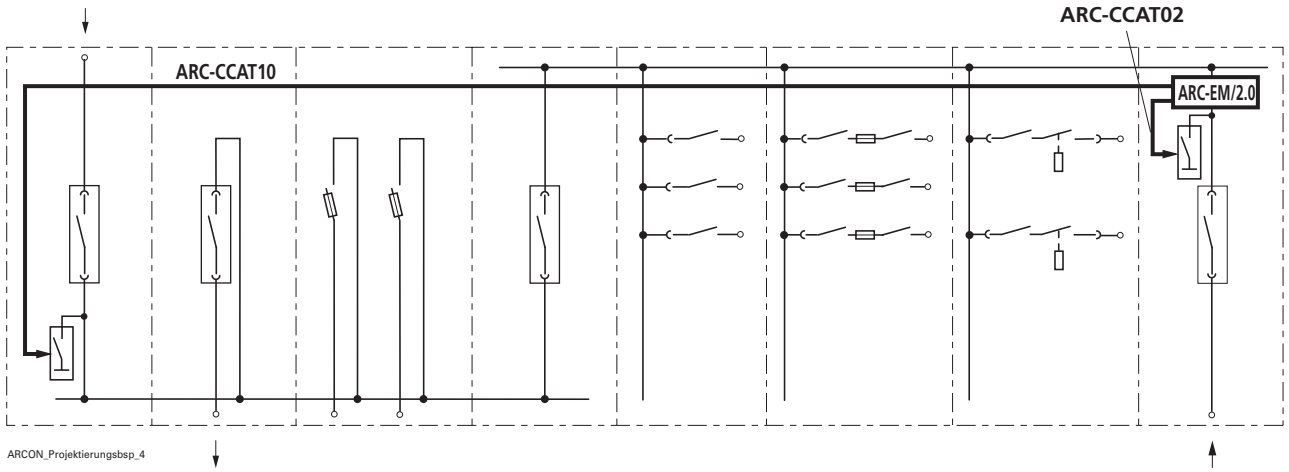
Determination of the number and the position of the Master unit(s):

In the event of an arc-fault, the Master unit ARC-EM/2.0 energizes the quenching devices and can monitor two zones separately. If more than two zones in a system should be monitored, you will need additional Master units. They can be interlinked through a connection line which enables them to exchange the overcurrent signals of the Master units.

So it makes sense to position the Master unit in the door to the switchgear system, in front of a quenching device. This way you can reduce the wiring effort.

For this switchgear system example, we need one Master unit only which is to be positioned in section 8. In case of the feeder coming in from the top, we would have to look for an alternative position.

To connect the Master with the quenching device, a pre-fabricated cable of type ARC-CCAT is required.



Section no. 1 2 3 4 5 6 7 8

Determination of the number and position of the Master units ARC-EM/2.0

To be added to the parts list:

Section	Quantity	Type	Description
8	1	ARC-EM/2.0	Master unit
8	1	ARC-CCAT02	Connection cable between Master and quenching device - 2 m long
8	1	ARC-CCAT10	Connection cable between Master and quenching device - 10 m long

Step three

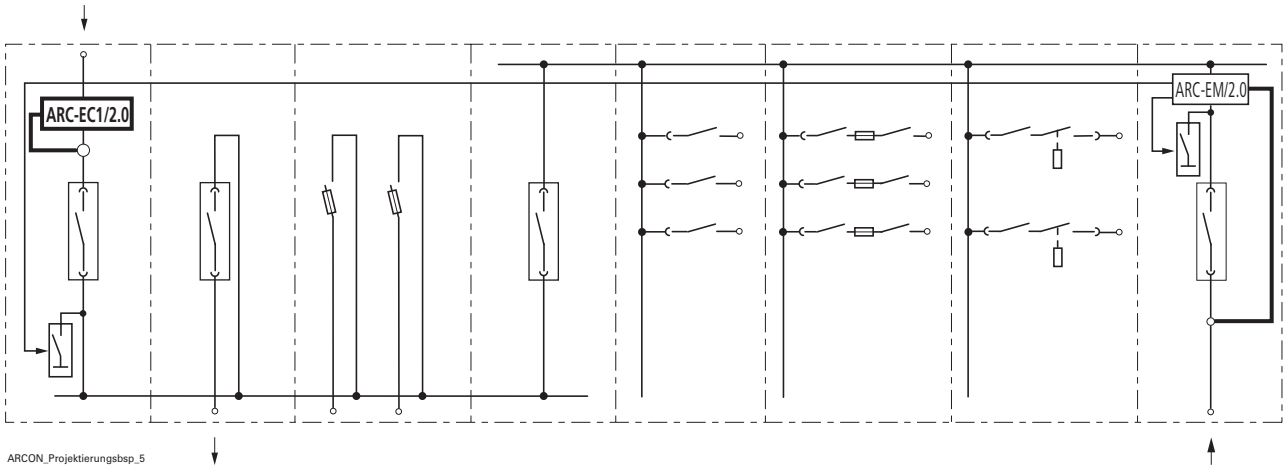
Sets of current transformers:

In each feeder system we need a set of current transformers (3 transformers) that have to be positioned upstream the feeder circuit breaker. You can use transformers with secondary currents of 1 A or 5 A. Existing measuring transformers can be used in case of series connection.

The Master unit ARC-EM/2.0 provides the possibility to directly connect a set of transformers. For every further feeder you will need Slave modules of type ARC-EC1/2.0.

In this example, the first set of transformers in section 8 will be directly connected with the Master.

For the feeder in section 1, a Slave module ARC-EC1/2.0 needs to be used.



Section no. 1 2 3 4 5 6 7 8

Selection of the set of current transformers and their connection.

To be added to the parts list:

Section	Quantity	Type	Description
1	1	ARC-EC1/2.0	Slave module ARC-EC1/2.0

ATTENTION:

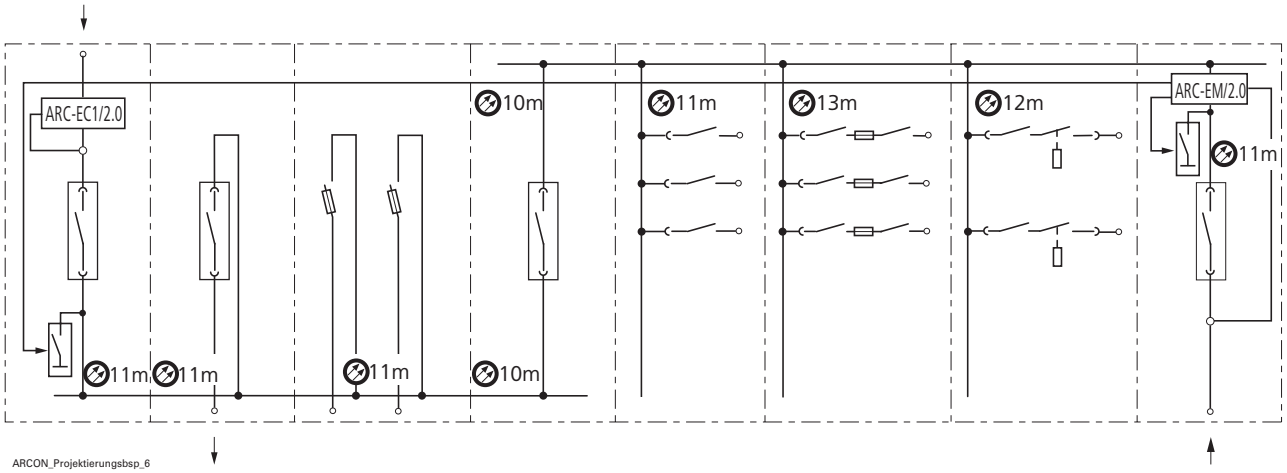
When using transformer disconnect terminals, you have to make sure that the correct functioning of ARCON will not be impaired even when using bridged disconnect terminals. The devices (ARC-EM/2.0 and ARC-EC1/2.0) must be positioned in series, upstream the disconnect terminals!

Step four

Selection of the sensor lengths ARC-SLxx/BL:

For each main busbar system per section, you will need a light sensor. The required length can be determined according to the selection table and depends on the section type, the section width and the main busbar current.

For section 1, for example, you will need a sensor ARC-SL12 of 12 m length. Here we are talking about a feeder section with a quenching device, the section is 800 mm wide and we have a single main busbar up to 3200 A.
The same procedure shall apply to all other sections.



Section no. 1 2 3 4 5 6 7 8

Auswahl der Sensoren ARC-SLxx/BL

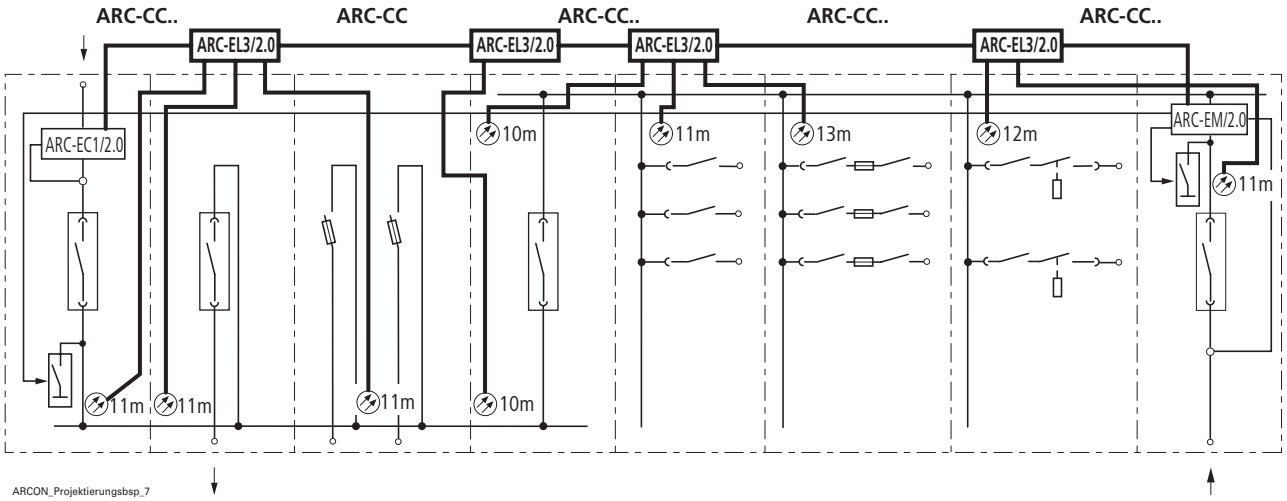
To be added to the parts list:

Section	Quantity	Type	Description
1	1	ARC-SL11/BL	XP section, feeder with quenching device, 800 mm wide, main busbar up to 3200 A
2	1	ARC-SL11/BL	XP section, outgoing, 800 mm wide, main busbar up to 3200 A
3	1	ARC-SL11/BL	XF section, 1000 mm wide, main busbar up to 3200 A, dropper bar up to 1600 A
4	2	ARC-SL10/BL	XP section, coupler, 800 mm wide, main busbar up to 3200 A
5	1	ARC-SL11/BL	XF section, 800 mm wide, main busbar up to 3200 A, single dropper bar
6	1	ARC-SL13/BL	XW section, 1000 mm wide, main busbar up to 3200 A, single dropper bar
7	1	ARC-SL12/BL	XW section, 1000 mm wide, main busbar up to 3200 A, double dropper bar
8	1	ARC-SL11/BL	XP section, feeder with quenching device, 800 mm wide, main busbar up to 3200 A

Step five

Number and position of the Slave units ARC-EL3/2.0 (light sensor evaluation):
The number of Slave units ARC-EL3/2.0 for light sensor evaluation depends on the number of sensors required for one zone. You can connect up to three ARC-SLxx/BL sensors to each ARC-EL3/2.0.
This means: **Number of Slave units per zone = number of light sensors per zone, divided by three and rounded up to an integer number. Example: In zone 1 there are 4 light sensors → 4/3 = 1.3 → 2 Slaves ALC-EL3/2.0**
The Slave units (ARC-EL3/2.0 and ARC-EC1/2.0) are all interlinked by a connection cable ARC-CCxx (pre-fabricated bus cable) and they are also connected to the Master unit ARC-EM/2.0.

This means: The number of connection cables ARC-CCxx = Number of Slave units. The Slave units are usually positioned in a way that in addition to the sensor in the same section, it is also possible to connect a sensor of the left or right adjacent section to the Slave units.
In our example, we have two ARC-EL3/2.0 for each zone. They are placed in section 2, section 4, section 5 and section 7. Then you can plan the connection cables (their length can vary, see the corresponding types).



Section no. 1 2 3 4 5 6 7 8

Number and position of ARC-EL3/2.0.

To be added to the parts list:

Section	Quantity	Type	Description
2	1	ARC-EL3/2.0	Slave unit with line sensors, zone 1
4	1	ARC-EL3/2.0	Slave unit with line sensors, zone 1
5	1	ARC-EL3/2.0	Slave unit with line sensors, zone 2
7	1	ARC-EL3/2.0	Slave unit with line sensors, zone 2
1 to 8	5	ARC-CCxx	Connection cable (Bus) for Slave units ARC-EL3/2.0+ARC-EC1/2.0

Step six

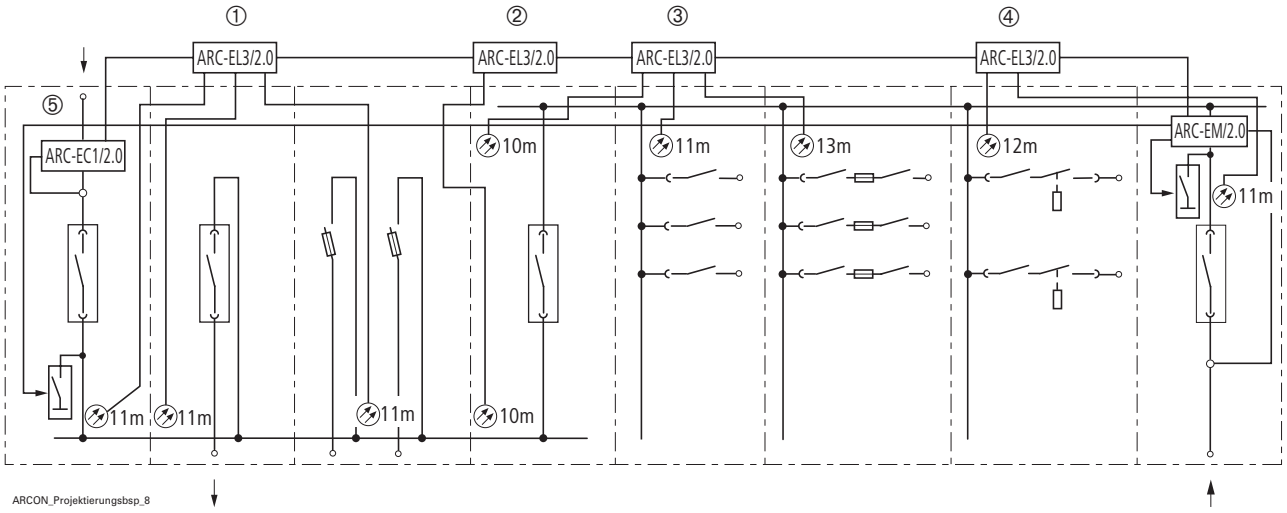
Assignment of Slave addresses

General rules:

- Sensors ARC-SLxx/BL of different zones must not be connected to one and the same Slave module ARC-EL3/2.0!
- Each Master unit ARC-EM/2.0 can supply energy for up to 16 Slave modules, thereof a max. of 8 Slave modules ARC-EC1/2.0.

For the assignment of the Slave addresses of ARC-EL3/2.0 units, it is important to take account of the zones the connected sensors are assigned to. The Slave modules with the sensors of Zone 1 will be assigned addresses from 00 to 07. Those with the sensors of Zone 2 will be assigned addresses from 08 to 15.

The units ARC-EC1/2.0 will be assigned addresses from 33 to 47.
The addresses can be set at the device front, using DIP switches available for this purpose. The addresses have to be included in the wiring documentation and must be documented there.
In the example below, we selected the addresses 01 and 02 for the ARC-EL3/2.0 in Zone 1, and the addresses 10 and 11 for ARC-EL3/2.0 in Zone 2. The Slave module ARC-EC1/2.0 gets the address 39.



Addressing the Slave units

Key
① Address 01
② Address 02
③ Address 10
④ Address 11
④ Address 39

Step seven

Activating the circuit breakers

General rule:

- All feeders and couplers that limit a zone to be protected need to be designed as circuit breakers. In the event of an arc fault, they must be able to switch off the short circuit generated by the quenching device!

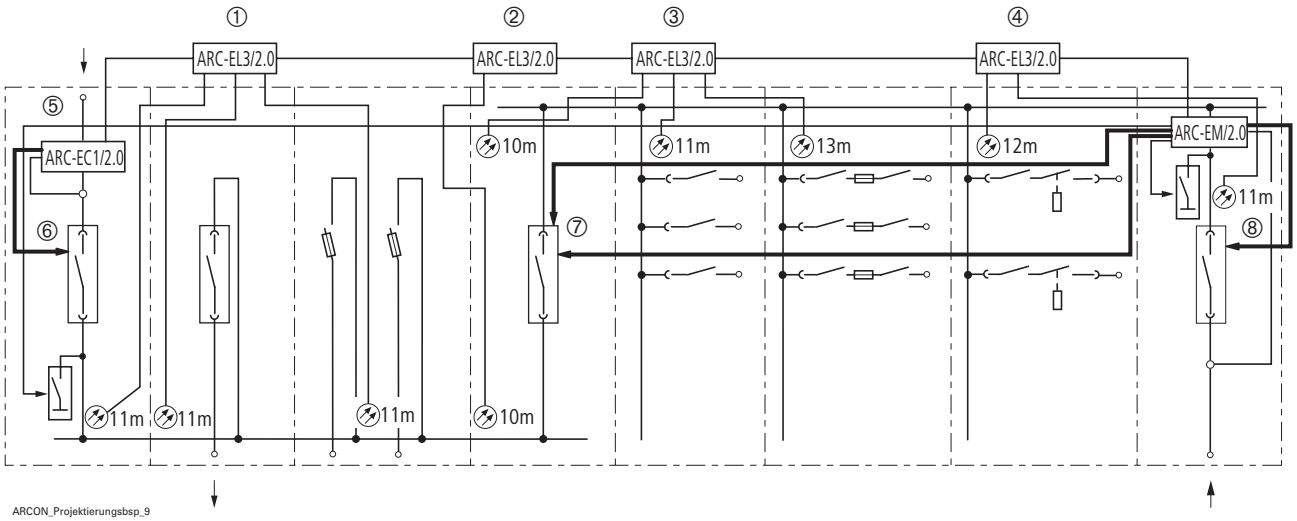
Tripping of the circuit breakers will be triggered by activating the shunt trip releases, via the relay contacts of the Master unit ARC-EM/2.0 or the relay contacts at the ARC-EC1/2.0.

Please make sure to prevent the coupler from being activated. For this purpose, there are two potential-free normally-open contacts available for two zones each. The interaction between zone setting and relay contacts (tripping group 1+2) is displayed in the relay matrix (reference to the ARCON Manual).

In this example, the shunt trip release of the circuit breakers need to be energized in a way, that in the event of an arc fault in zone 1, the feeder in section 1 and the coupler in section 4 will trip. The same also applies to zone 2 (feeder section 8 and coupler section 4).

This means that the coupler is activated by a potential-free relay contact from one zone each (contact trip 1 from zone 1 and contact trip 3 from zone 2). The feeder circuit breakers will be activated by an additional contact of the Master unit (Trip 4 for breaker in section 8) or of the Slave module ARC-EC1/2.0 (contact X2:15/X2:16 for breaker in section 1).

Activation of the contact X2:15/X2:16 of ARC-EC1/2.0 needs to be set to tripping in zone 1 by using the DIP switch at the device front.



Section no. 1 2 3 4 5 6 7 8

Activating the circuit breakers

In systems with a different circuit breaker configuration you need to proceed in a similar way.

Key

⑥ Trip contact X2:15/X2:16, set the assignment to Zone 1 at the DIP switch

⑦ Trip 1 for zone 1, Trip 3 for zone 2

⑧ Trip 4 for zone 2

Selection table for ARCON light sensors depending on the section width and on the main busbar currents

Selection table for how to select the light sensor length

The maximum distance for light sensors to be connected to an electronic evaluation unit (Slave) ARC-EL3/2.0 is the distance to the adjacent section. So the Slaves ARC-EL3/2.0 need to be positioned accordingly.

For every main busbar per section, one sensor ARC-SLxx/BL will be sufficient. The light sensor consists of one active and two passive parts (each 2.50 m long). The passive parts are equipped with a protective sleeve and serve as a connection to the Slave ARC-EL3/2.0. The active part detects the light generated by an arc fault and is installed in the areas at risk. The required sensor length depends on the type of section that needs to be equipped and can be selected from the selection table below.

The required fastening materials have to be determined either using the Configurator for generating offers/orders, or using the relevant building instructions.

Selection table for sensor lengths

Main busbar Rear

				Section depth	600						800						1000										
Section Type	**Description 1**	**Description 2**	**Description 3**	**Section width**	425	600	800	1000	1100	1200	1350	425	600	800	1000	1100	1200	1350	425	600	800	1000	1100	1200	1350
XP	ACB (IZMX16, IZMX40..IZM63)	OPPO	Single		-	15	15	15	-	-	-	-	15	15	15	15	-	15	-	15	15	15	15	-	15
XP	ACB (IZMX16 ,IZMX40..IZM63)	OPPO	Side by Side		-	-	15	15	-	-	-	-	-	15	15	-	-	-	-	-	15	15	-	-	-
XP	ACB (IZMX16, IZMX40..IZM63)	EVEN	Single		-	15	15	15	-	-	-	-	15	15	15	17	-	20	-	15	15	15	17	-	20
XP	ACB (IZMX16, IZMX40..IZM63)	EVEN	Side by Side		-	-	15	15	-	-	-	-	-	15	15	-	-	-	-	-	15	15	-	-	-
XP	ACB (IZMX16,I ZMX40..IZM63)	Coupling	Single		-	2x10	2x10	2x10	-	-	-	-	2x10	2x10	2x10	2x10	-	2x10	-	2x10	2x10	2x10	2x10	-	2x10
XP	ACB (IZMX16, IZMX40..IZM63)	Coupling	Side by Side		-	2x10	2x10	2x10	-	-	-	-	2x10	2x10	2x10	2x10	-	2x10	-	2x10	2x10	2x10	2x10	-	2x10
XP	MCCB (NZM3, NZM4)	OPPO	Single		10	10	11					11	11	12					11	11	12	-	-	-	-
XP	MCCB (NZM3, NZM4)	OPPO	Side by Side		-	11	11	11	-	-	-	-	12	12	12	-	-	-	-	12	12	12	-	-	-
XP	MCCB (NZM3, NZM4)	EVEN	Single		10	10	11					11	11	12					11	11	12	-	-	-	-
XP	MCCB (NZM3, NZM4)	EVEN	Side by Side		-	11	11	11	-	-	-	-	12	12	12	-	-	-	-	12	12	12	-	-	-
XP	MCCB (NZM3, NZM4)	Coupling	Single		10	10	10	10	-	-	-	10	10	10	10	-	-	-	10	10	10	10	-	-	-
XP	MCCB (NZM3, NZM4)	Coupling	Side by Side		-	10	10	10	-	-	-	-	10	10	10	-	-	-	-	10	10	10	-	-	-
XF	Universal Section	Busbar Back-Top			10	11	12	12	-	-	-	-	12	12	12	-	-	-	10	12	12	12	-	-	-
XF	Universal Section	Busbar Back-Bottom			10	11	12	12	-	-	-	10	12	12	12	-	-	-	10	12	12	12	-	-	-
XF	Box Solution	Busbar Back-Top			-	11	12	12	-	-	-	-	12	12	12	-	-	-	-	12	12	12	-	-	-
XF	Box Solution	Busbar Back-Bottom			-	11	12	12	-	-	-	-	12	12	12	-	-	-	-	12	12	12	-	-	-
XF	SL-I Section: Single Busbar	Busbar Back-Top			-	10	10	10	-	-	-	-	10	10	10	-	-	-	-	11	11	11	-	-	-
XF	SL-I Section: Single Busbar	Busbar Back-Bottom			-	10	11	11	-	-	-	-	11	11	11	-	-	-	-	12	12	12	-	-	-
XF	SL-I Section: Double Busbar	Busbar Back-Top			-	10	10	10	-	-	-	-	10	10	11	-	-	-	-	12	12	12	-	-	-
XF	SL-I Section: Double Busbar	Busbar Back-Bottom			-	11	11	11	-	-	-	-	11	11	12	-	-	-	-	12	12	12	-	-	-
XR	Mixed Section				-	-	-	13	-	13	-	-	-	-	13	-	13	-	-	-	-	15	-	15	-
XR	PIFT Horizontal				-	-	-	13	-	13	-	-	-	-	13	-	13	-	-	-	-	15	-	15	-
XR	PIFT Vertical	Busbar Back-Top			-	10	10	10	-	-	-	-	10	10	11	-	-	-	-	12	12	12	-	-	-
XR	PIFT Vertical	Busbar Back-Bottom			-	11	11	11	-	-	-	-	11	11	12	-	-	-	-	12	12	12	-	-	-
XW	Withdrawable Section				-	-	-	12	-	13	-	-	-	-	13	-	13	-	-	-	-	13	-	13	-
XG	General Fittings				10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
XG	Corner Section				-	11-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	11	-	-	-

Selection table for ARCON light sensors depending on the section width and on the main busbar currents

Selection table for how to select the light sensor length

The maximum distance for light sensors to be connected to an electronic evaluation unit (Slave) ARC-EL3/2.0 is the distance to the adjacent section. So the Slaves ARC-EL3/2.0 need to be positioned accordingly.
For every main busbar per section, one sensor ARC-SLxx/BL will be sufficient. The light sensor consists of one active and two passive parts (each 2.50 m long). The passive parts are equipped with a protective sleeve and serve as a connection to the Slave ARC-EL3/2.0. The active part detects the light generated by an arc fault and is installed in the areas at risk. The required sensor length depends on the type of section that needs to be equipped and can be selected from the selection table below.
The required fastening materials have to be determined either using the Configurator for generating offers/orders, or using the relevant building instructions.

Selection table for sensor lengths

Main busbar Top

			Section depth	**800**				
Section Type	**Description 1**	**Description 2**	**Section width**	300	425	600	800	1000
XP	ACB (IZMX16,IZMX40)	Single	-	10	12	13	-	
XP	ACB (IZMX16,IZMX40)	Coupling	-	2x10	2x10	2x10	-	
XP	ACB (IZMX16,IZMX40)	Stacked	-	12	12	13	13	
XP	ACB (IZMX16,IZMX40)	4-fold stacked	-	-	-	15	15	
XP	ACB (IZMX16,IZMX40)	Side by Side	-	-	-	13	15	
XP	MCCB (NZM4)	Single	-	10	12	13		
XP	MCCB (NZM4)	Side by Side	-	-	12	13	13	
XP	MCCB (NZM4)	Stacked	-	10	12	-	-	
XF	Fixed Section		-	-	11	12	13	
XW	Withdrawable Section		-	-	11	12	13	
XG	General Fittings		-	10	10	10	10	
XG	Transition Section		10	10	-	-	-	
XG	Corner Section		-	-	-	10	-	

Characteristics

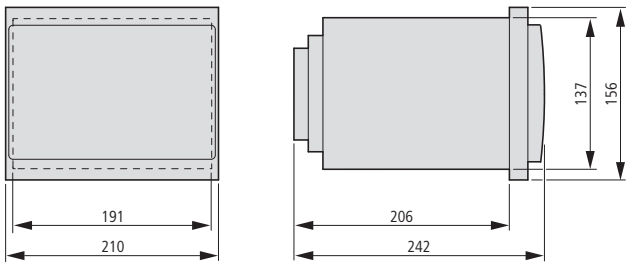
Electronic evaluation unit (Master) ARC-EM/2.0		
General information		
Ambient temperature min./max.		-10/+55 °C
Storage temperature		-40/+70 °C
Rated peak withstand voltage	U_{imp}	5 kV
Overvoltage category/Degree of pollution		III/3
Rated insulation voltage	U_i	300 V AC
Degree of protection		IP20
Voltage supply		
Rated operating voltage	U_e	48-265 V AC/DC
Rated frequency	f	50/60 Hz
Power consumption		< 7 W (permanent operation) < 10 W (relay outputs active)
Connectable electronic evaluation unit (Slave)		
Input set of 3-phase current sensors		
Input signal (can be changed)		1/5 A
Rated permanent current	I_U	4 x I_N
Rated short-time withstand current	I_{cw}	60 x I_N (1s)
Outputs 7 relays, potential-free		5 A AC/DC, 250 V AC/DC
TRIP 1/2 for Tripping Group 1		2x Normally open contact (NO)
TRIP 3/4 for Tripping Group 2		2x Normally open contact (NO)
Alarm contact A1 for zone 1-4		1x Normally open contact (NO)
Contact for self-monitoring SF1		1x Normally open contact (NO)
Contact for self-monitoring SF2		1x Normally closed contact (NC)
Electronic evaluation unit (Slave) ARC-EL3/2.0		
Voltage supply (from ARC-EM/2.0)		24 V DC
Ambient temperature		-10/+55 °C
Storage temperature		-40/+70 °C
Inputs optical		3 ARC-SLxx/BL; 1 ARC-SM
Output		
Release contact of circuit breaker (TRIP) - Normally open contact (NO)		250 V AC/DC, 5 A TRIP for zone 1-4: 1x Normally open contact (NO)
Electronic evaluation unit (Slave) ARC-EC1/2.0		
Voltage supply (from ARC-EM/2.0)		24 V DC
Ambient temperature		-10/+55 °C
Storage temperature		-40/+70 °C
Input 3-phase		
Input signal (can be changed)		1/5 A
Rated permanent current	I_U	4 x I_N
Rated short-time withstand current	I_{cw}	60 x I_N (1s)
Output		
Release contact of circuit breaker (TRIP) - Normally open contact (NO)		250 V AC/DC, 5 A TRIP for zone 1-4: 1x Normally open contact (NO)
Light sensor ARC-SLxx/BL, line-shaped		
General information		
Ambient temperature max. (connector-side)		-10/+55 °C
Ambient temperature max. (active area of the sensor, blue part)		-10/+125 °C
Storage temperature		-20/+65 °C
Minimum bending radius		30 mm
Tensile load max. (during installation)		10 N
Total length		max. 25 m

Quenching device ARC-AT		
General information		
Ambient temperature max.		-10/+75 °C
Storage temperature		-20/+65 °C
Rated peak withstand voltage	U_{imp}	8 kV
Rated operating voltage	U_e	690 V AC
Rated frequency	f_n	50/60 Hz
Overvoltage category/Degree of pollution		III/3
Rated insulation voltage according to IEC 1131 T. 2	U_i	1,000 V AC
Degree of protection of the system		IP00
Vibration test		according to IEC 721-3-3
Shock test		according to IEC 68-2-27
Breaking capacity		
Rated short-time withstand current	I_{cw}	85 kA_{eff} / 1 s 105 kA_{eff} / 0.5 s 150 kA_{eff} / 0.2 s

Weight

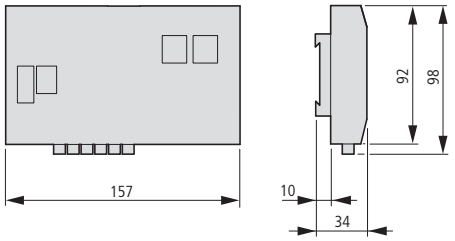
Type	Weight kg
Electronic evaluation unit (Master)	
ARC-EM/2.0	2.5
Electronic evaluation unit (Slave)	
ARC-EL3/2.0	0.75
Electronic evaluation unit (Slave)	
ARC-EC1/2.0	0.75
Light sensor, line-shaped	
ARC-SLxx/BL	0.15-0.30
Mobile light sensor	
ARC-SM	0.1
Connection cable	
ARC-CCxx	0.2
ARC-CCAT	1.0
Quenching device	
ARC-AT	15
Fitting kit for quenching device	
XMI...-ARC	7-20

Electronic evaluation unit (Master) ARC-EM/2.0



Mas_ARC-EM

Electronic evaluation unit (Slave) ARC-EL3/2.0



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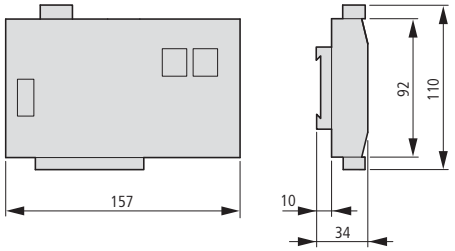
Electronic evaluation unit (Slave) ARC-EC1/2.0



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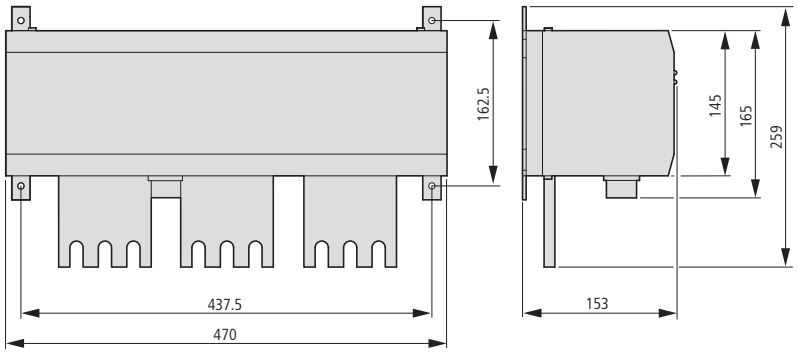
Quenching device ARC-AT



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