VEICHI




# Integrated Construction Hoist AC Drive

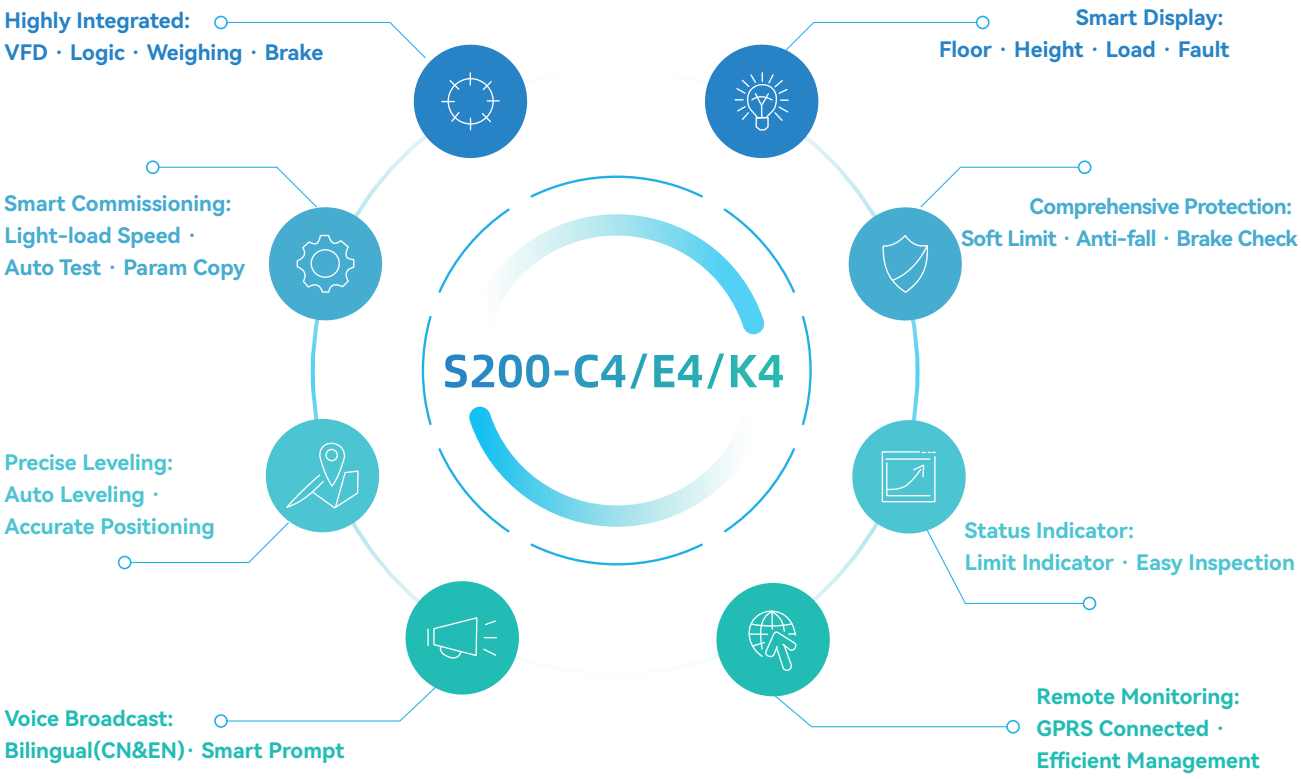
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# INTEGRATED
# CONSTRUCTION HOIST AC DRIVE

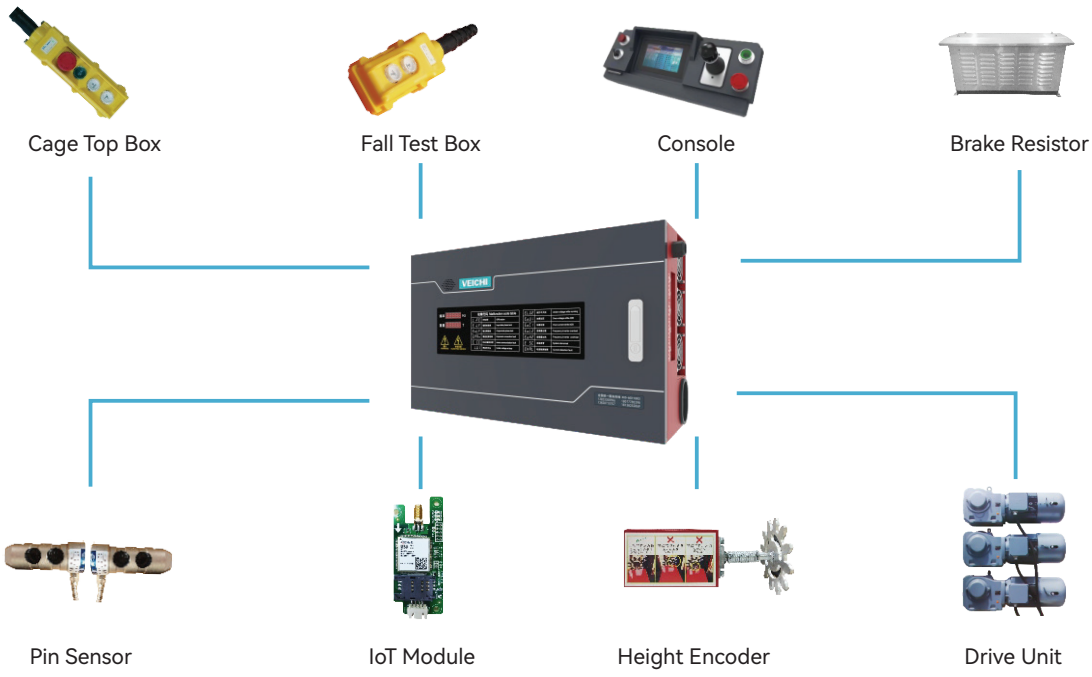



- Purpose-built integrated system for construction lift electrical control
- Integrates VFD control, logic control, lifting weight limiter, and brake unit
- Complete functions, stable performance, easy installation, elegant appearance
- Delivers comprehensive, high-performance, safe, and reliable solutions
- Models: S200-C4, S200-E4, S200-K4

## S200-C4/E4/K4 Product Features



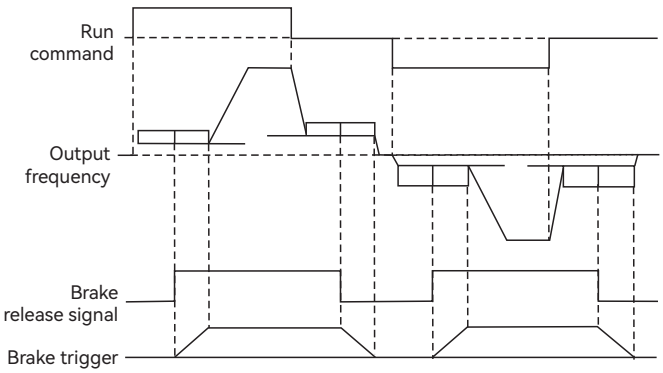

## System Components



# System Product Features

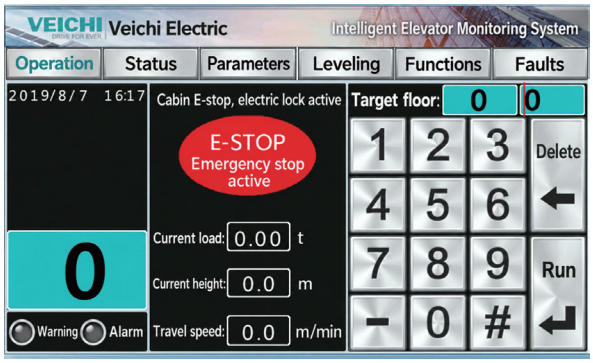
## Redundant brake-circuit safety

◎ Dual-signal, dual-brake redundant design
◎ Real-time torque check before/while braking prevents sliding
◎ Sequential brake logic for reliable open/close




## HMI

◎ Floor, height, load, direction, speed display
◎ Auto leveling; accuracy ≤2mm
◎ Easy floor storage



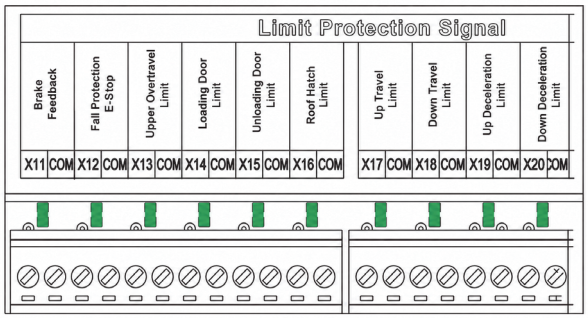

## Voice broadcast

◎ Real-time fault, command, limit, e-stop prompts
◎ Chinese/English selectable



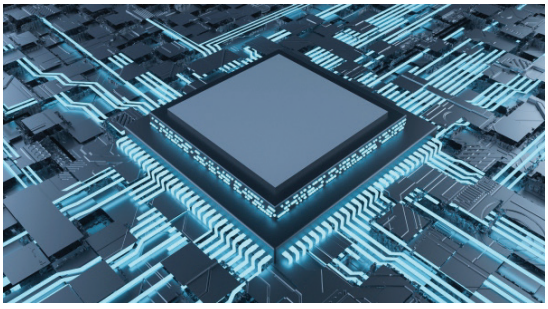
## Status display

◎ Clear LED for limit & operation status
◎ Easy maintenance



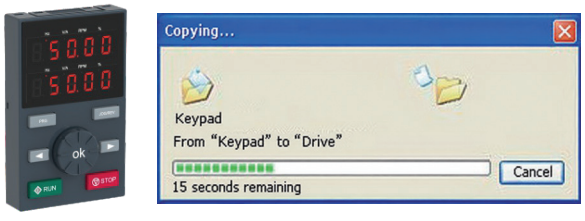

## Pre-authorization settings

◎ Built-in clock/calendar chip
◎ Exact pre-authorization time
◎ Remote device management



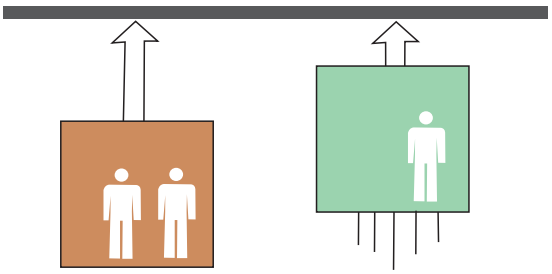
## Keypad parameter copy

◎ Full parameter set storage
◎ Batch download/copy



## Field-weakening speed-up (for light load)

Light/empty cage auto field-weakening (constant power) for higher speed



Heavy load-low speed  Light load-high speed

## Automatic test

Auto cycle test mode cuts pre-delivery debugging time

## Soft limit

◎ High-accuracy encoder feedback of cage position
No top/bottom over-travel even if limits stick

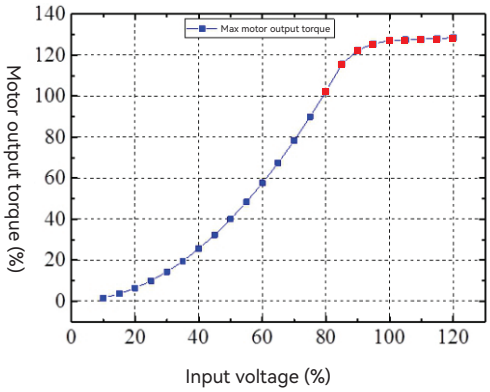


◎ **Dual deceleration limit**
Upper/lower decel-limit interfaces
Independent, non-interfering
Fast entry to high-speed
Higher carrying efficiency

◎ **Decel optimization** (for hoists without decel-limit switches)
Built-in stop algorithm when enabled
Precise stopping in normal operation

## Undervoltage frequency derating

◎ Auto frequency drop on voltage sag to meet motor torque demand
Sliding prevention from torque loss
◎ Wide input range: ±20% of rated




Motor output torque vs input voltage

## Easy maintenance

◎ C4 design for field-service convenience
◎ Right-opening mid-board & Modular components
◎ No complex peripheral circuits
◎ Easy part replacement by non-professionals

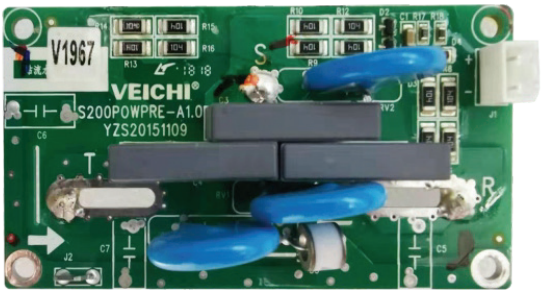


## Motor real-time auto-tuning

◎ Auto capture of motor dynamic parameters in operation
◎ Stator-resistance rise after heating → torque drop
◎ Max torque in all operating conditions

## Lightning protection

◎ Built-in lightning absorption module
◎ Gas-discharge ground-release technology
◎ Induced & direct lightning protection




## Braking torque detection

◎ Periodic brake-assembly inspection reminder for safe operation
◎ Principle: 120% rated torque output with brake locked
◎ Shaft displacement → torque-insufficiency audible/visual alarm, otherwise normal

# Naming Rules

**S200 - E4 - 037B**

**Product series:**
Integrated construction hoist ac drive

**Model code:**
E4: 4th Gen E models
C4: 4th Gen C models
K4: 4th Gen K models

**Brake type:**
B: Energy consumption brake

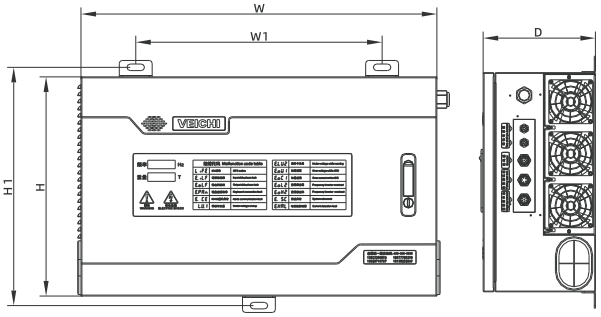
**Drive power (kW)**
037: 37kW
045: 45kW
055: 55kW
075: 75kW

## C4/E4 Series Specification

| Model | Power (kW) | Rated Current (A) | Motor Power (kW)*Motor Qty. |
|---|---|---|---|
| S200-E4-037B | 37 | 75 | 11*3/15*2 |
| S200-E4-045B | 45 | 90 | 13*3/22*2 |
| S200-E4-055B | 55 | 110 | 15*3 |
| S200-E4-075B | 75 | 150 | 18.5*3/26*2 |
| S200-C4-037B | 37 | 75 | 11*3/15*2 |
| S200-C4-045B | 45 | 90 | 13*3/22*2 |
| S200-K4-037B-2 | 37 | 75 | 11*3/15*2 |
| S200-K4-045B-2 | 45 | 90 | 13*3/22*2 |

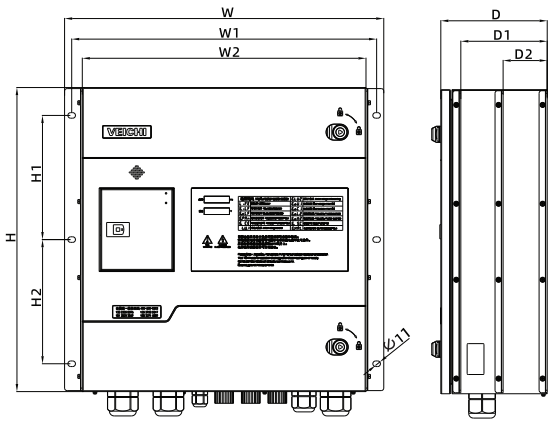
# Installation Dimensions

## S200-C4 Installation Dimensions



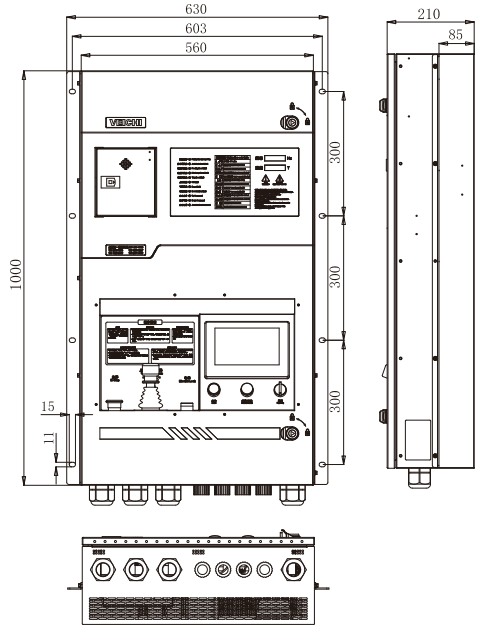

| Model | Outer dimensions(mm) | | | Installation dimensions(mm) | | Installation aperture |
|---|---|---|---|---|---|---|
| | W | H | D | W1 | H1 | |
| S200-C4-037B | 650 | 400 | 205 | 400 | 435 | ϕ12 |
| S200-C4-045B | | | | | | |

## S200-E4 Installation Dimensions




| Model | Outer dimensions (mm) | | | Installation dimensions(mm) | | | | | Installation aperture |
|---|---|---|---|---|---|---|---|---|---|
| | W | H | D | W1 | W2 | H1 | D1 | D2 | |
| S200-E4-037B | 630 | 600 | 210 | 602 | 560 | 245 | 170 | 87 | ϕ11 |
| S200-E4-045B | | | | | | | | | |
| S200-E4-055B | | | | | | | | | |
| S200-E4-075B | | | | | | | | | |

## S200-K4 Installation Dimensions




| Model | Outer dimensions (mm) | | | Installation dimensions(mm) | | | | | Installation aperture |
|---|---|---|---|---|---|---|---|---|---|
| | W | H | D | W1 | W2 | H1 | D1 | D2 | |
| S200-K4-037B-2 | 630 | 1000 | 210 | 603 | 560 | 300 | 85 | 132 | ϕ11 |
| S200-K4-045B-2 | | | | | | | | | |

S200 Serie
Integrated Construction Hoist AC  Drive

VEICHI

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