MEGMEET

Industrial Automation

Servo System

Home Appliance Control Solutions

Precision Connection

☐ FFC ☐ Litz Wire ☐ Peek Wire

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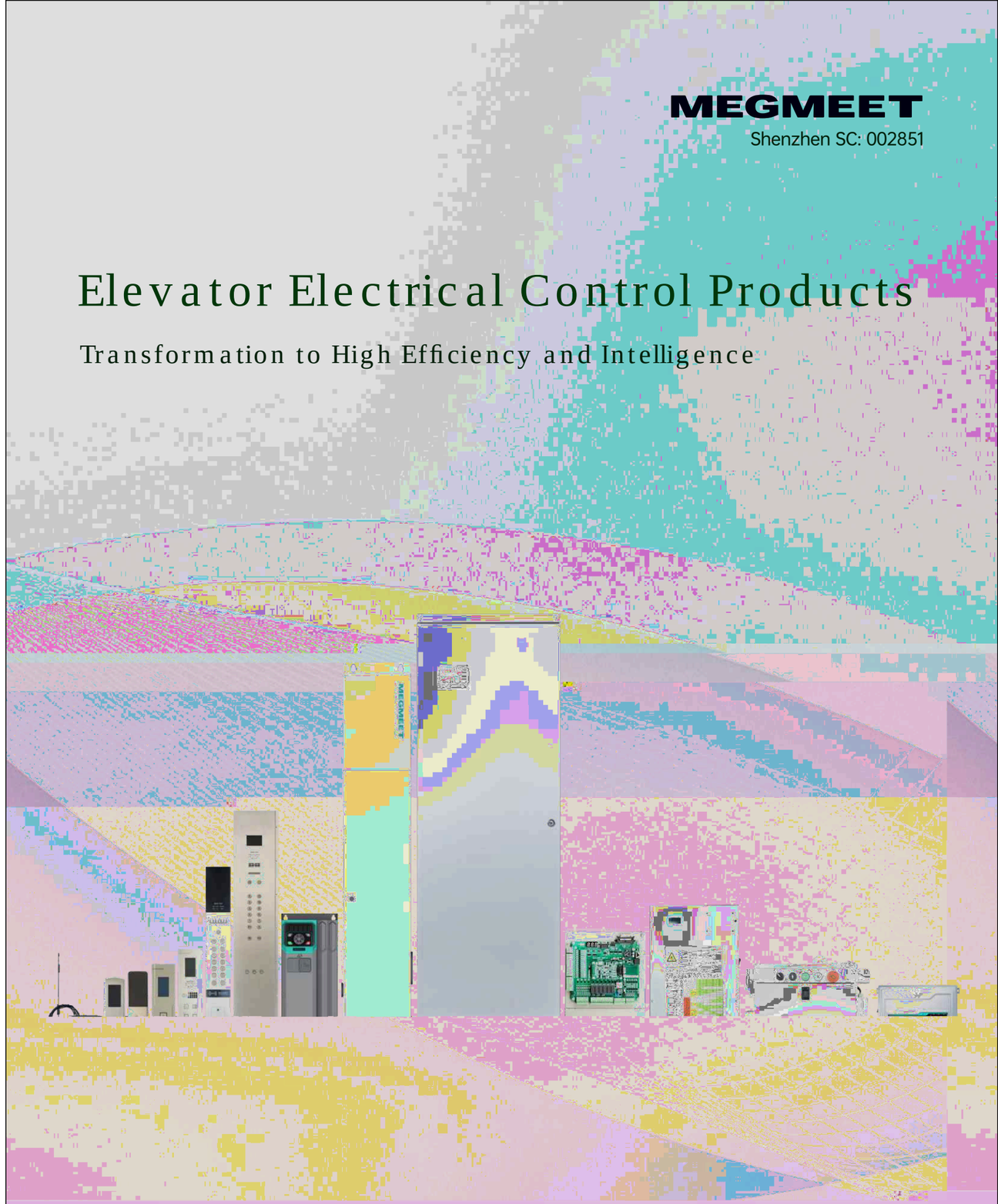
Elevator Electrical Control Products

Transformation to High Efficiency and Intelligence



Global Leading Solution Provider In Electrical Automation

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ABOUT MEGMEET

MEGMEET is a comprehensive solution provider for hardware and software R&D, production, sales, and service in the field of electrical automation. With power electronics and automation control at its core, MEGMEET's main businesses include Power Solutions, Industrial Automation, emobility & EV Infrastructure, Intelligent Equipment, Home Appliance Control Solutions, and Precision Connection.

MEGMEET has established a robust R&D, manufacturing, marketing, and service platform, with over 8,200 employees, including more than 2,800 R&D staff worldwide. MEGMEET's global presence includes R&D Centers in China, the United States, and Germany; Manufacturing Centers in Thailand, India, the United States, and China; and Regional Offices across North America, South America, Europe, Central Asia, Northeast Asia, Southeast Asia, India, the Middle East, Oceania, and Africa.

MEGMEET is committed to creating a cleaner living environment for all human beings through more efficient energy utilization and improved manufacturing efficiency. MEGMEET aims to become the world leader in electrical automation and achieve the goal of me v wD MEMEMEME

2800+

10
R&D Centers

9

8200+

1990+

Integrated Elevator Controller

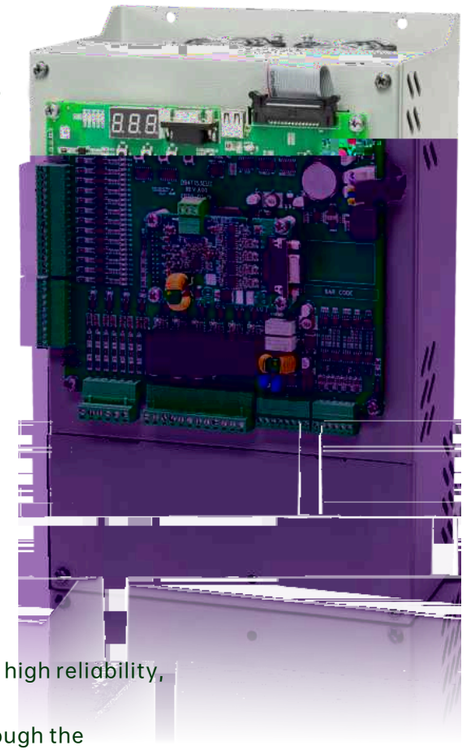
Product Overview

Smile3000 series integrated elevator controller, independently designed by Megmeet, incorporates motor drive, elevator (group) control and internet technologies to achieve intelligence. The controller is excellent in performance, fully featured, safe and reliable, easy to operate and cost-effective.

Product Features

Excellent Drive Control Technologies

- Static auto-tuning and with-load auto-tuning
- Protection against output arc hazards
- Prevention of motor runaway caused by encoder disconnection
- No-load-cell compensation technology
- User-friendly UI for parameter settings
- Compatible with mainstream systems
- Direct-to-floor distance control, raising efficiency by 30%



Robust Safety Functions

- The main board executes 4-channel high-voltage door lock detection through a safety interface board, meeting all requirements of GB7588.2 No.2 amendments (patent)
- Upon the electrical brake releasing of a machine-roomless elevator, external power supply of the main board will display floor and direction
- UCMP function/Auto-detection of braking force
- Auto-detection of wire rope slippage
- Special brake power board with high reliability (patent)
- Smart diagnosis and classified management of elevator failures

Superior Customer-Facing Features

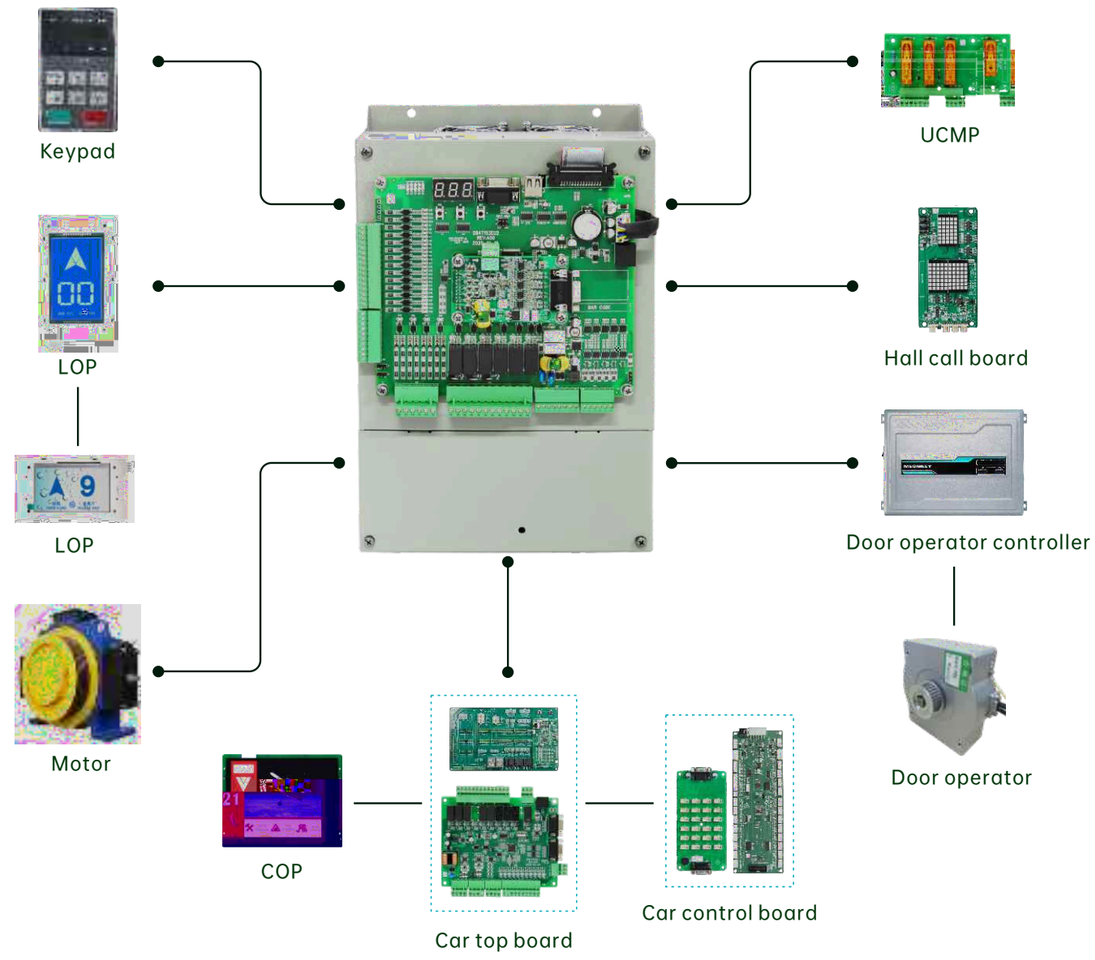
- Elevator speed up to 4 m/s, floors up to 48
- Integrated solution, with compact system, simple wiring, high reliability, easy operation and lower labor cost
- Allows you to carry out all parameter commissioning through the controller on the car top or inside the car
- Matches various kinds of encoders (open-collector, push-pull, UVW, Sin/Cos)
- Ultra-slim design, suitable for MRL installation (including villa elevators)
- Allows you to set parameters in group, making commissioning easier

Naming Rule

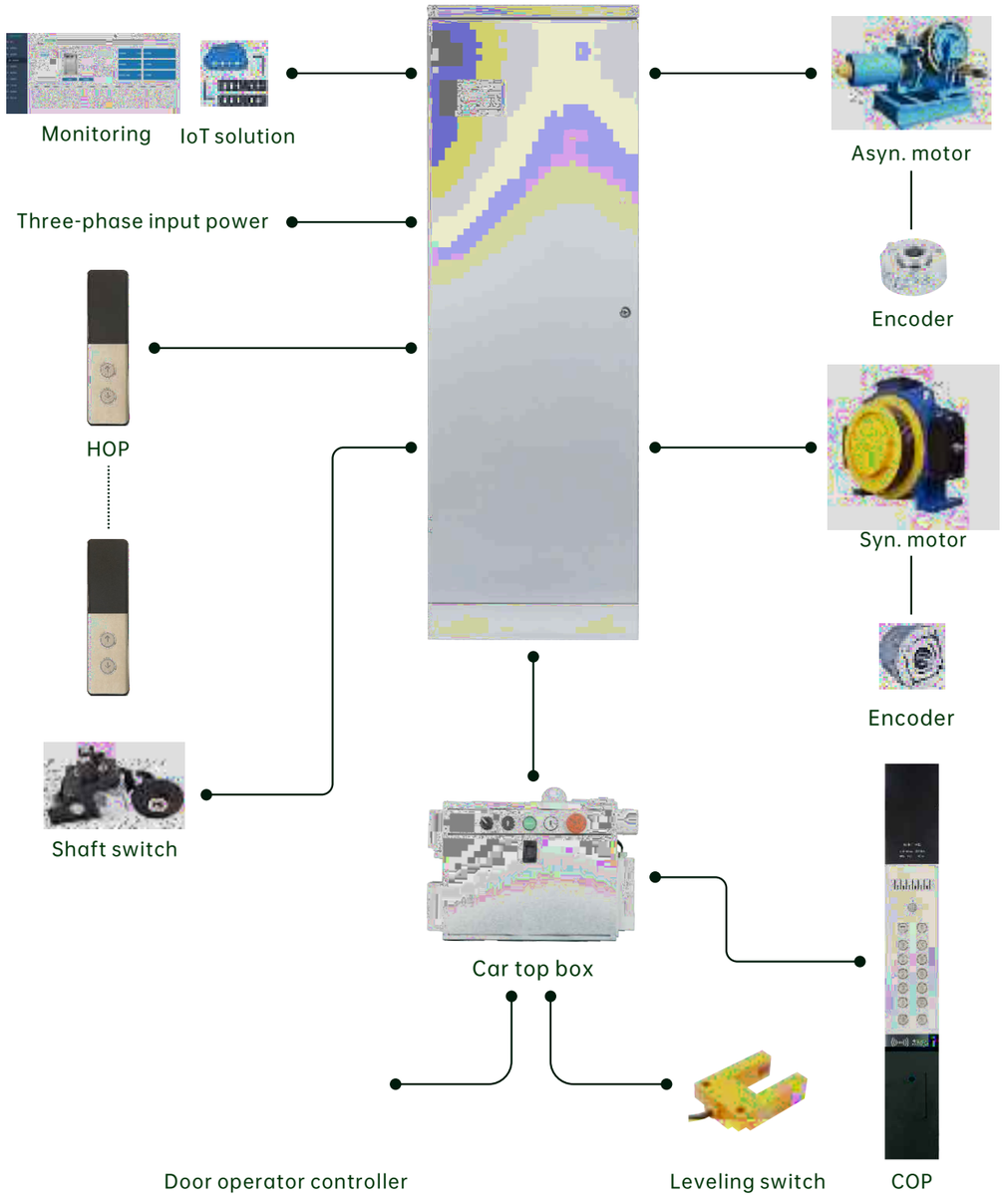
Smile3000 - 4 T 15

Product series	Input voltage	Input phase	Rated output power
Integrated elevator controller series	2: 220 V 4: 380 V	S: Single-phase T: Three-phase	(2.2 to 75 kW) 15: 15 kW

System Configuration



Electrical Control Solution for Elevators (Integrated Cabinet)



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Advanced

- High-performance drive platform, with a dual-CPU framework
- Leading parallel control of 2 elevators and group control up to 8 elevators
- Cutting-edge vector control with great motor speed regulation, improving the riding comfort

Intelligent

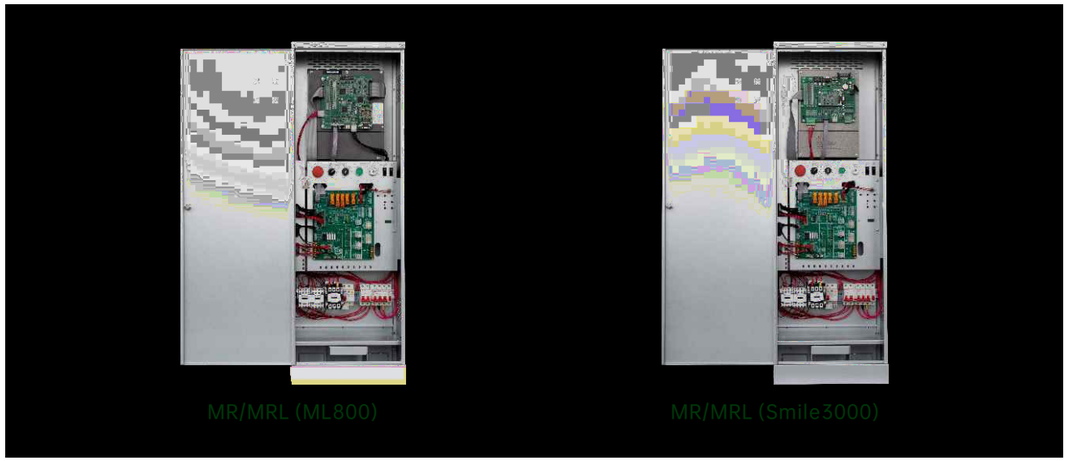
- Direct-to-floor distance control, deriving smooth N velocity profiles automatically
- Innovative no-load-cell start compensation technology, compatible with different encoders, achieving smooth elevator start

Integrated

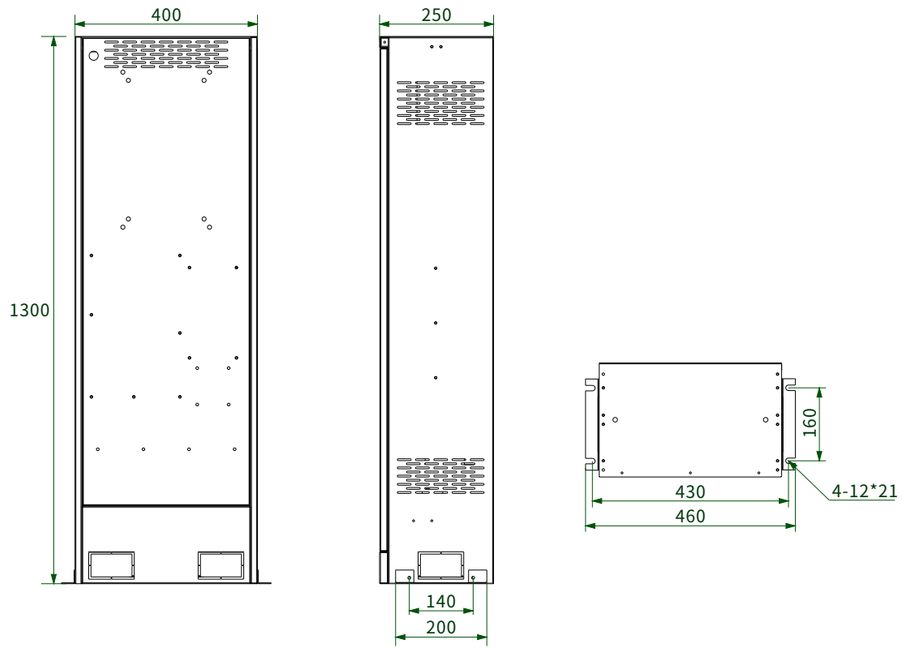
- Modular design, each module easy to disassemble and replace
- Integrated with advanced CANbus, Modbus and IoT communication

Convenient

- Offers guidance for on-site elevator commissioning
- Provides various commissioning tools, including PC host software, operating panel and mobile phone App
- Beautiful appearance and impressive panel design



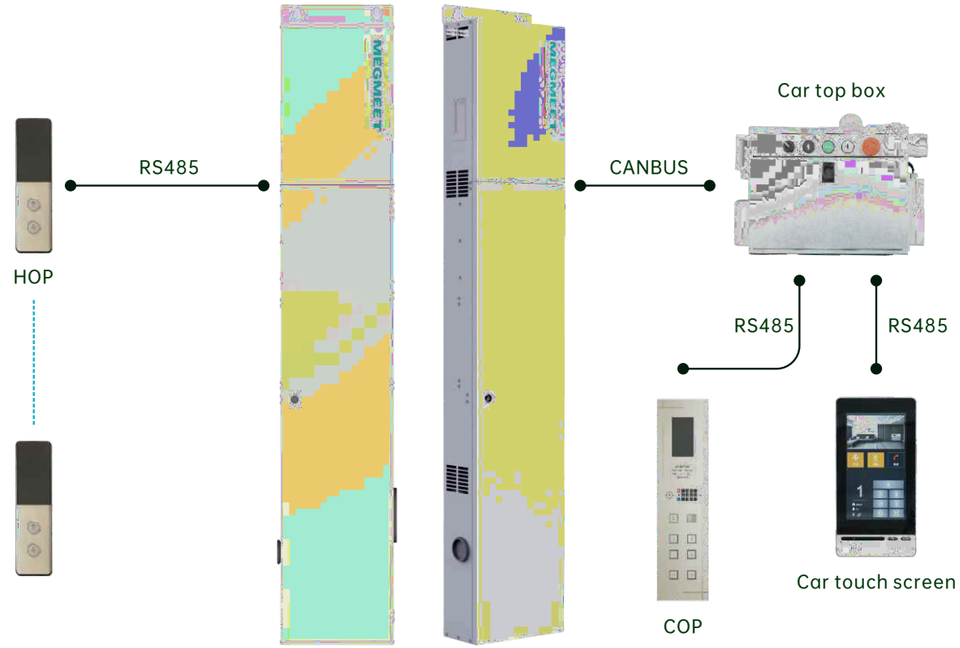
Product Dimensions



Model	Dimensions (mm)	Installation method
5.5 to 15 kW	1300 x 400 x 250	Wall-mounted/Floor-mounted
18.5 to 22 kW	1300 x 400 x 250	Floor-mounted
30 to 37 kW	1300 x 400 x 250	Floor-mounted

Home Elevator Control Cabinet

Home Elevator Solution



Naming Rule

Smile3000 - V - 2S 2.2

Product series	Cabinet type	Voltage class	Power rating
Smile3000 series	Villa cabinet	2S: Single-phase 220 V AC 4T: Three-phase 380 V AC	(1.2 to 5.5 kW) 2.2: 2.2 kW

Product Features

Quiet Running

- Advanced motor drive and logic control
- Low motor noise and multi-stage curves
- Quiet operation without contactors (STO)

Safe and Reliable

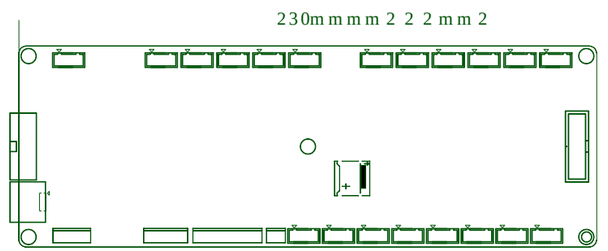
- ARD & electrical brake release as standard configuration with various rescue methods
- Remote wireless monitoring through elevator IoT, facilitating maintenance

Highly Integrated

- Modular design, easy to disassemble and replace
- Integrated with advanced CANbus, Modbus and IoT
- Ultra-slim, pleasing, in harmony with home decorations

Intelligent and Easy to Use

- Offers guidance for on-site elevator commissioning
- PC host software, panel and App commissioning
- Touch screen to display various information and perform emergency call/rescuing/maintenance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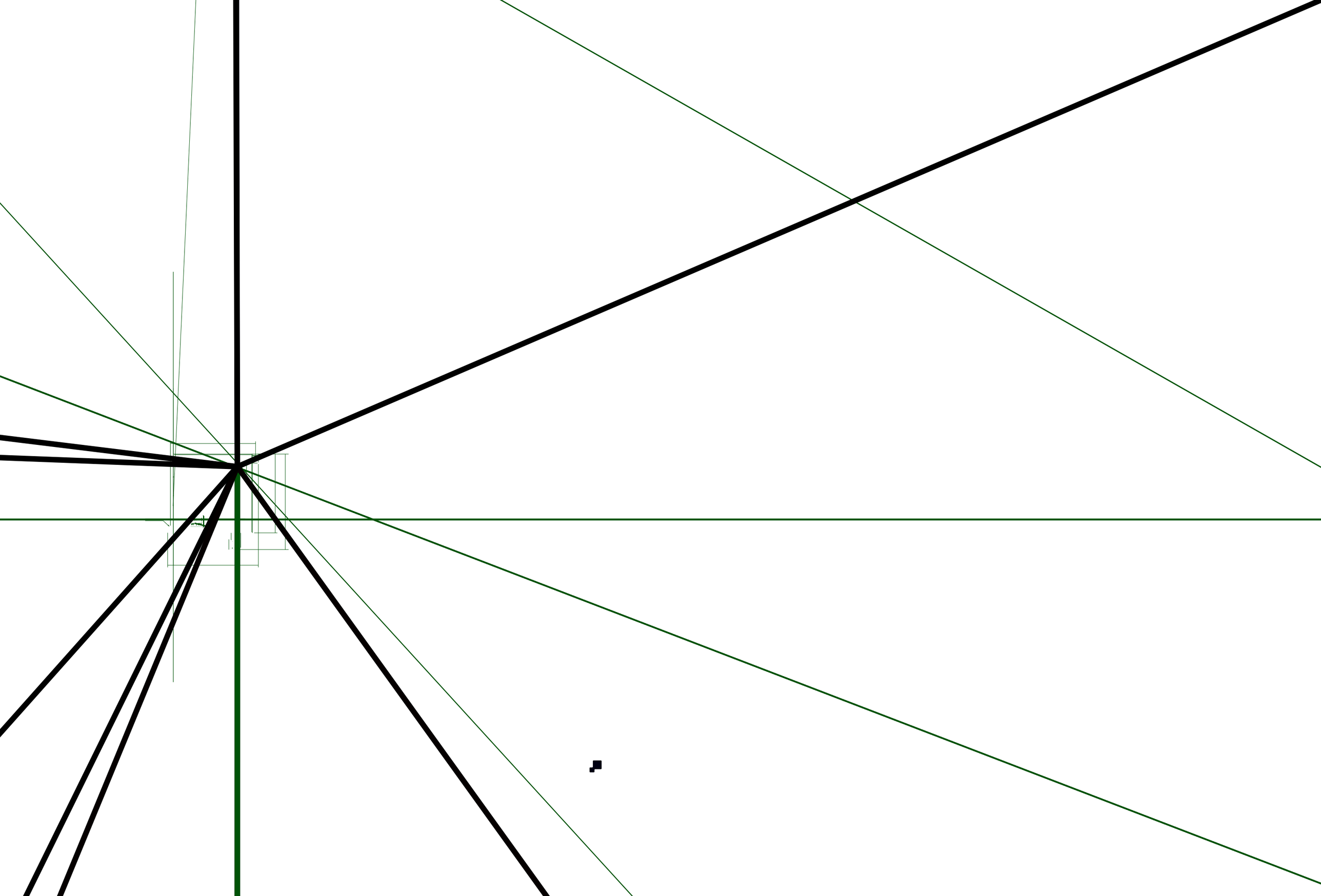

- Smart batt
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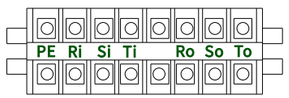
- Clear fault display: fault codes displayed in binary, easy to view and fast to locate

Terminal Description

Main circuit terminals



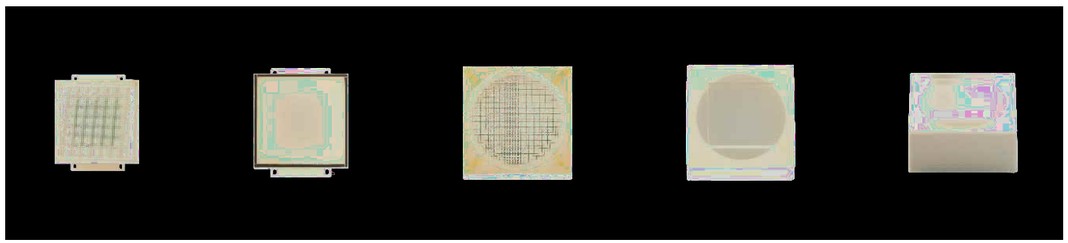
Mark	Description	Function
	ARD three-phase AC power input	Connect the mains power to Ri, Si and Ti of ARD, and connect Ro, So and To to the elevator control cabinet, then the elevator can work in both normal and emergency states. Note: Do not connect the input power to output terminals Ro, So and To. Otherwise, ARD will be damaged.
Si		
Ti		
PE		
Ro		
So		
To		

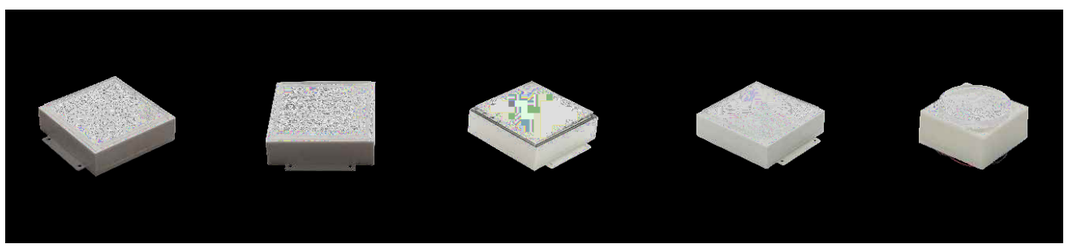
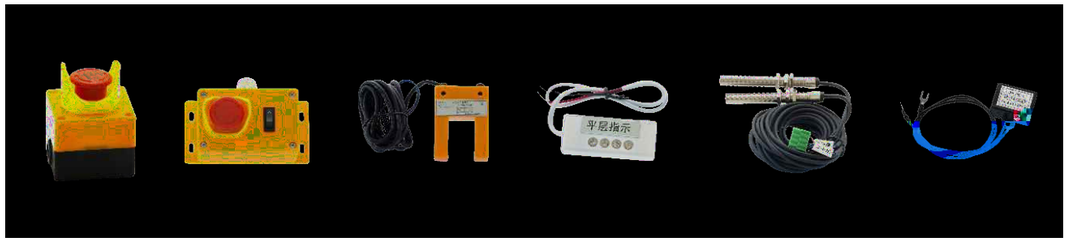
Control circuit terminals

Mark	Description	Function
Pin7	USER GND	Power output 24 V negative
Pin1	+24V	Power output 24 V positive
Pin8		Y1 and M1 are connected when ARD is in the emergency state; Y1 and M1 are disconnected when ARD exits the emergency state.
Pin2	M1	
Pin9		Y2 and M2 are connected when ARD is in the emergency state; Y2 and M2 are disconnected when ARD exits the emergency state.
Pin3	M2	
Pin10		Y3 and M3 are connected when ARD reports that the contactor is stuck or cannot be closed; Y3 and M3 are disconnected when the contactor faults are reset.
Pin4	M3	
Pin11	X3 rescue completion input signal	After the elevator moved to the door zone, opened the door to the limit and the main board sent a valid rescue completion signal (connecting X3 to +24 V), ARD receives the signal and stops output after 30 seconds. If the main board does not send a rescue completion signal, ARD will stop output automatically after running for 3 minutes.
Pin5	X2 inspection shutdown input signal	X2 and +24 V are connected to the auxiliary NC contact of main power air switch. When the air switch is disconnected, external three-phase mains power will be cut off and emergency rescue will not be started.
Pin12	USER GND	Power output 24 V negative
Pin6	X1 forced rescue input signal	After one rescue by ARD, if X1 is still valid (connecting X1 to 24 V), ARD will start a second forced rescue usually used for electrical brake release.

MV820E series elevator AC drive is developed on a new core hardware platform, designed with delicate structure, and optimized for control algorithms to achieve drive integration of asyn. and PM syn. motors. It adopts modular interface expansions, matches various kinds of encoders along with bus communication, and offers flexible S-ramps as well as special logic control for elevators, enhancing control performance, improving safety and reliability, and facilitating commissioning.

Lights





Switches/Emergency Stop Buttons...