MEGMEET

Industrial Automation

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eMobility & EV Infrastructure

Integrated Charging SCoax ol Sol

Home Appliance Control Solutions

Precision Connection

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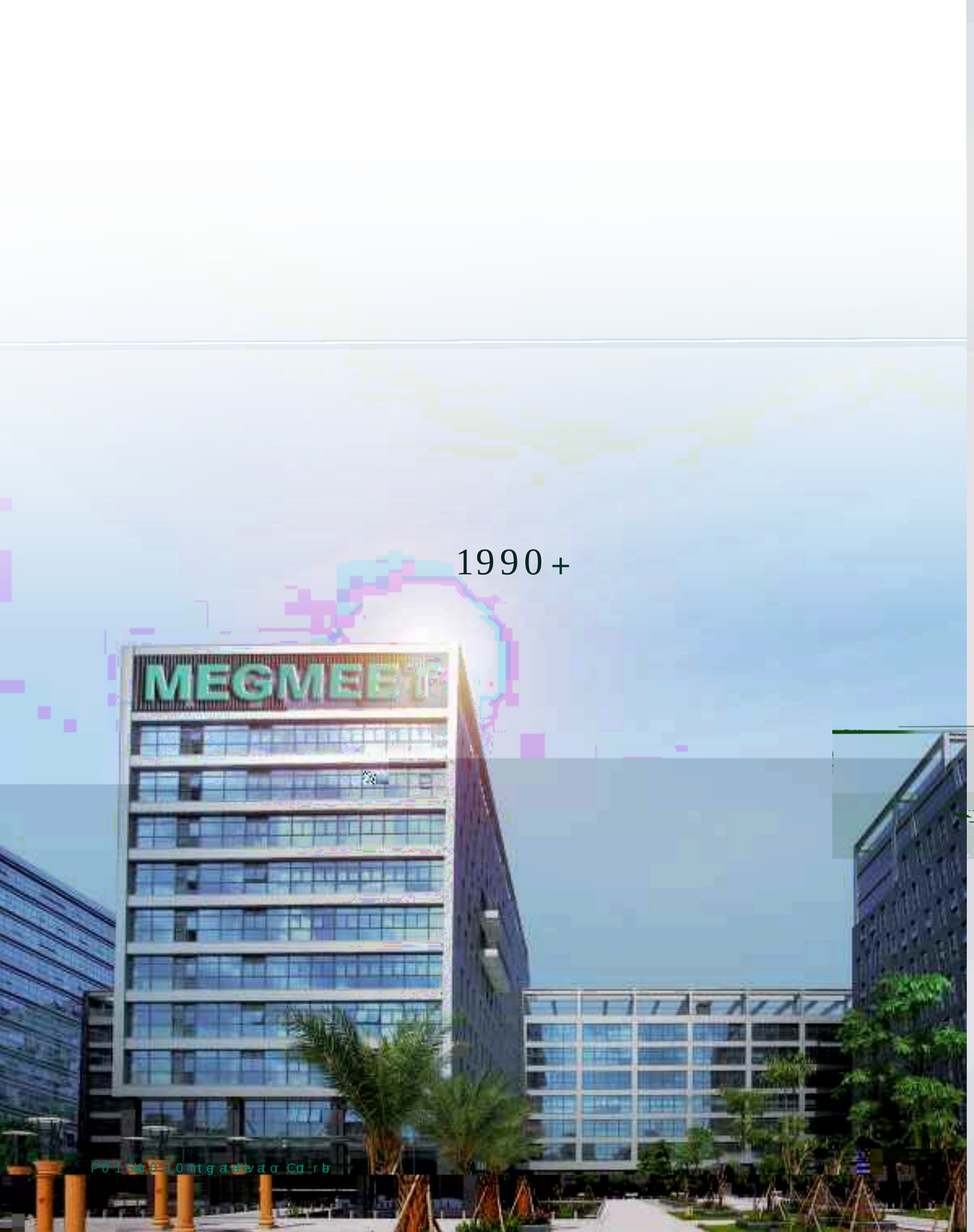
Smile1000 Series

Integrated Elevator Controller

Global Leading Solution Prov ider In Electrical Atomation

1990+



Smile1000 Series
Integrated Elevator Controller

Sm1000 series integrated elevator controller, jointly developed by Megmeet, incorporates motor drive, elevator (group) control board interface together with integrated features of excellent performance, comprehensive functionality, high safety and reliability, simple operation, a streamlined hardware system and cost-effectiveness.

Main Advantages

Advanced Drive Control Technologies

- Static auto-tuning + dynamic with-load auto-tuning
- Protection against output arch hazards
- Prevention from motor runaway caused by encoder disconnection
- No-load-cell compensation technology
- User-friendly function parameter settings
- Compatible with mainstream systems
- Direct-to-floor distance control, raising efficiency by 30%

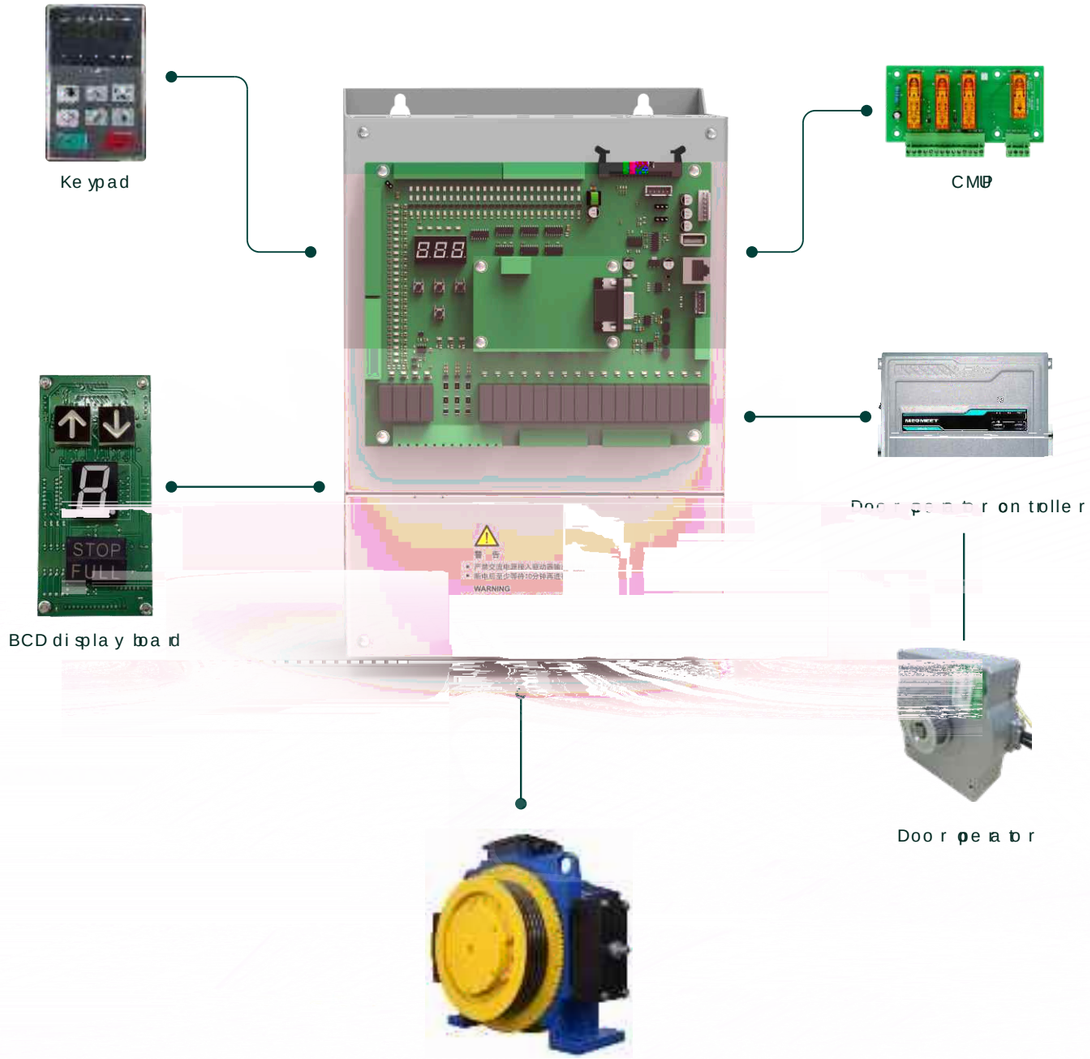
Superior Customer-Oriented Features

- Maximum elevator speed: 2.5 m/s, up to 48 floors (non-standard floors also supported)
- Integrated solution, with compact system, simple wiring, high reliability, easy operation, and lower labor costs
- Built-in braking units for three holes series
- Compatible with various 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

Robust Safety Functions

- 3-channel high-voltage door lock detection on the main board
- CMVP function / Auto-detection of brake force
- Auto-detection of driver open slippage
- Special brake power board with high reliability
- Smart diagnosis and classified management of elevator faults

Control System



Technical Specifications

Input / Output	
Rated input voltage	Three-phase AC 380 V / Single-phase 220 V, continuous fluctuation voltage ±10%, transient fluctuation -15% to 10%; voltage unbalance rate: <3%, distortion rate in with IEC 61800-2
Rated input frequency	50/60 Hz, fluctuation range ±5%
Output voltage	Three-phase output under rated input, 0 to rated input voltage, deviation is ±3%
Output frequency	0.00 to 200.00 Hz (unit: 0.01 Hz)
Peripheral Interfaces	
LV digital input	5 low voltage digital inputs, DC 24 V / 10 mA
HV detection input	3 high voltage detection inputs, AC/DC 110 V
Relay output	2 3 relay outputs
Keypad	K2-Panel a utput [illegible] Rated [illegible]
Communication	
Expansion	

Field Interface

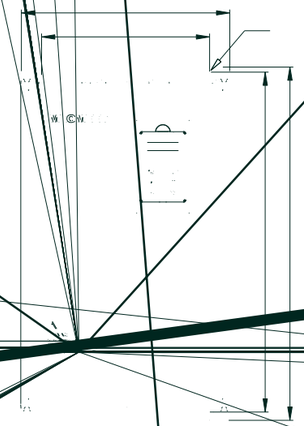
Naming Rule

SH000 - 4 T 1.1

1 2 3 4

1 Product series SH000 series	2 Voltage 2: 220V 4: 380V
3 Voltage S: Single T: Three phase	4 Rated output power 1.1: 1.1kW (1.1 to 75kW)

Installation Dimensions



Basic Parameters

Model	Power capacity (kVA)	Input current (A)	Output current (A)	Adaptive motor (kW)
SH000-2S1.1	1.8	8.8	5.5	1.1
SH000-2S1.5	2.7	12.5	7.7	1.5
SH000-2S2.2	4.0	17.9	12.0	2.2
SH000-2S3.7	6.0	25.3	18.0	3.7
SH000-2S5.5	8.6	34.6	23.0	5.5
SH000-2T2.2	4.0	11.0	10.0	2.2
SH000-2T3.7	6.0	17.0	15.0	3.7
SH000-2T5.5	9.0	29.0	27.0	5.5
SH000-2T7.5	12.6	36.0	33.0	7.5
SH000-2T11	15.0	41.0	47.0	11.0
SH000-4T5.5	8.5	15.0	13.0	5.5
SH000-4T7.5	11.0	21.0	18.0	7.5
SH000-4T11	18.0	28.0	27.0	11.0
SH000-4T15	22.0	33.0	33.0	15.0
SH000-4T18.5	29.0	40.0	39.0	18.5
SH000-4T22	30.0	50.0	48.0	22.0
SH000-4T30	42.0	62.0	60.0	30.0
SH000-4T37	50.0	75.0	75.0	37.0
SH000-4T45	60.0	90.0	90.0	45.0
SH000-4T55	72.0	112.0	110.0	55.0
SH000-4T75	100.0	157.0	152.0	75.0

Terminal Wiring Description

Main Circuit Terminals

Mark	Nam	Descriptio
R , S , T	Thre-phase power supply input terba	Thre-phase AC power supply input
+ , -	DC bus positive and egative terba	Connect to external brake unit and energy feedback unit for 3 7 kW above
+ , PB(P)	Brake resis tor terba	① + and PB are connected to brake resis tor for motor s below 3 7 kW ② + and P are connected to DC reactor for motor s 3 7 kW above (The motor s are with factory - ins tal jumper between + and P terba . Do not remove this jumper fore DC reactor is added)
U, V , W	Motor output drive terba	Connect to a three-phase motor
⏚	Ground terba	Ground terba

Control Circuit Terminals

Mark	Type	Nam	Descriptio
CN2/CN4	24V/COM	External 24 VDC input	Provides 24 V power supply for the whole board
	L1 to L2 6	Button function selection	Button input signal and button function output , with 24 V output for button lighting
	24V COM	External 24 VDC input	Provides 24 V power supply for the whole board
CN1/CN6	X1 to X2 4	Digital input	Input voltage 10 VDC to 30 VDC Input impedance 4 . 7 k Ω (to user is sation) Input current when : 5 mA DI terba , with function s configurable via F5 - 01 to F5 - 24
	AI - M / AI	Analog differential input	User s or adjustable via
CN7	X2 5 to X2 7 / EXM	HV selection terba	Input voltage 110 VAC ± 15%, 110 VDC ± 20% for the safety circuit and bypass circuit , configurable via F5 - 25 to F5 - 27
	Y0 / M0 to Y8 / M3	Relay output	Relay normally - open (NO) output , 5 A / 250 V AC, configurable via F7 - 00 to F7 - 03
CN8/CN9	Y6 to Y2 2	Relay output	Relay normally - open (NO) output , 5 A / 250 V AC or 5 A / 30 VDC, configurable via F7 - 06 to F7 - 22
	YM1 to YM3	Relay output common ports	YM1 is the common for Y6 to Y9 , YM2 is the common for Y10 to Y16 , and YM3 is common for Y17 to Y22 .
CN3	MOD+ / -	Reserved	Reserved
	CAN+ / -	CAN bus differential signal	CAN interface for parallel operation
	GND	Ground	Ground
CN15	USB	Communication interface	For debugging via external computer For program updating For resetting parameter s
CN14	RJ45	Keypad interface	Connect to keypad
CN12	PG card interface		
J1/J2	For manufacturer use only . Do not short circuit randomly , otherwise operation may be affected		

ARD1000 Series

Item	Description
Wall-mounted	299mm* 165 mm* 495mm
Flange-mounted	299 mm* 161 mm* 446mm
Input terminals (power voltage)	L1 , L2 , L3 , N , PE
Output terminals (power voltage)	R , S , T , N (RST / RSN output)
Input terminals (signal)	24V , X1 , X2 , X3
Output terminals (signal)	24V , Y1 / M1 , Y2 / M2 , Y3 / M3
Function	Three-phase five-wires system three-phase 380 V input and 380 V + 220 V output (potential energy applies)

ARD2000 Series

Item	Description
Wall-mounted	527mm* 166mm* 608mm
Flange-mounted	527mm* 162 mm* 559mm
Input terminals (power voltage)	L1 , L2 , L3 , N , PE
Output terminals (power voltage)	R , S , T , N (RST / RSN output)
Input terminals (signal)	X1 , X2 , X3 , X4
Output terminals (signal)	24V , Y1 / M1 , Y2 / M2 , Y3 / M3 , Y4 / M4
Function	Three-phase four-wires system three-phase 380 V input and 380 V + 220 V output (potential energy applies)

Robust Reliability

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