

STEP

Elevator Controller System

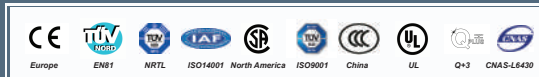


BOOST
ELEVATOR
SMART GO TRUST

HOTLINE : 08-8553-4538

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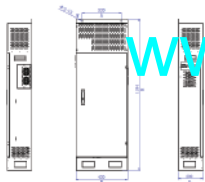


STEP Integrated Controller AS3800-C7000

- Closed-loop vector control.
- New no-load sensor startup compensation technology.
- New PWM dead-zone compensation technology.
- Dynamic PWM carrier modulation technology.
- Applicable for both synchronous and asynchronous motor.
- Dual 32-bit embedded microprocessor.
- CAN-Bus series communication.
- Applicable for residential lift, passenger lift, goods lift, etc.



MODEL
AS380-C7000



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Integrated Controller technical support

Model	Rated Input Power (V)	Rated Capacity (kVA)	Rated Input (A)	Rated Output (A)	Matching Motor Power (kW)	Controller Cabinet Dimension(mm.)			
						A	H	W	D
AS380-C7000	380					320	1184	420	200
AT05P5		8.5	13.8	13	5.5				
AT07P5		14	19	18	7.5				
AT0011		18	28.5	27	11				
AT0015		24	36	34	15				
AT18P5		29	43	41	18.5				
AT0022		34	50	48	22				

Controller Cabinet technical support

Name	Elevator Controller Model AS380-C7000
Power	5.5KW-22KW.
Speed	0.4-2.0 m/s
Max floor	Stops up to 64 Stops
Control method	Full Collecting Control
Communication	CAN-Bus series communication
Applicable main engine	Gearless PM synchronous pulling machine Geared IM asynchronous electric motor
Brake voltage	DC110V/AC110V/.....
Connector	Plug and Pin connector
Elevator type	Machine Room and Machine Roomless
Input power	400V three-phase 340-440,50-60Hz
Installation	On the ground and Wall
Controller cabinet dimension	(w)420x(h)1184x(d)200 mm.

Elevator Control System Standard Function

No.	Description of function	No.	Description of function	No.	Description of function
1	Safe Control	21	Service Floor Setting	41	Over Speed Protection
2	Door Operation	22	Emergency Stop Symbol	42	Door Switch Fault Protection
3	Door Close Operation	23	Emergency Stop Release	43	Door Communication Fault Protection
4	Door Hold	24	Emergency Stop Hold	44	Anti-Drift Protection
5	Door Lock	25	Emergency Stop Release	45	Anti-Self Contact Detection
6	Automatic Control for Door-opening time	26	Emergency Return Running	46	Diagnosis of Failure in Self-Teaching of Shaft Information
7	Open the Door by Landing Call	27	Automatic Correction of Shaft Information	47	Motor Thermal Protection
8	Pre-close the Door-closing Button	28	Elevator Lock-out	48	Door Switch Fault Protection
9	Open The Door by Door-Opening Button	29	Protection against Door-opening outside Door Zone	49	Protection of Door Switch Off in Running
10	Door Mode Selection	30	Anti-Curtain Protection For Doors	50	System Mode
11	Next Landing	31	Door-load Protection	51	Leveling Fine-tuning
12	Clear No-load Regulation	32	Anti-resonance at Light-load	52	Door Nudging with Buffer
13	Clear Regulations before Reversing	33	Reversing Protection	53	Door-opening when Standby at Main Floor
14	Direct Landing	34	Burning Time Limiter	54	Floor Blocking within Setting Time Interval
15	By-passing Landing Call When Full-load	35	Fault Protection for Terminal Switch	55	Automatic Inquiry of Landing Call Board
16	Power-off Car Light/Fan when Standby	36	Protection against Terminal Over Travel	56	CAN Communication Interference Evaluators
17	Auto Homing	37	Protection detection for Safety Relays and Contactors	57	Evaluation about Encoder Interference
18	No-close Door	38	Protection against Safety Circuit Fault	58	Elevator Adjustment in Car
19	Historical Error Log	39	Master CPU Protection by WDT		
20	Self-testing of Shaft information	40	Over Speed Protection		

Elevator Control System Standard Function

No.	Description of function	No.	Description of function	No.	Description of function
1	Pre-door-opening(with SM11-A/B Board)	16	Emergency Operation for Earthquake	17	Issue Reporting
2	Reversing with Door Open(with SM11-A/B Board)	18	Arrival Gong on Car	18	Load Compensation for Starting
3	Fireman Service Operation	19	Arrival Light on Landing	19	Door-opening Holding Button
4	The Second COP	20	Arrival Gong on Landing	20	Display for Out of Service
5	Blair Door COP	21	Separated Control of Car Doors(front & rear)	21	Car Call Controlled by IC Card
6	COP for Handicapped	22	Priority Service	22	Opening Call Controlled by IC Card
7	Group Control(with SM-GC Board)	23	Emergency Landing when Power Failure		
8	Community Monitoring	24	Service Floor Controlled by Switch		



MCP-ST/C 0100

STEP Full Serial VVVF Control Cabinet Model MCP-ST/C0100

The control functions are achieved by STEP Full Serial Control System. Humanized functions, i.e. Simplex, Duplex, Group control, Remote monitoring, Emergency rescue...are viable to be realized. Cable cores and cost are reduced efficiently with CAN-Bus Serial communication. More stability and best travel feeling are realized due to excellent VVVF drive system.

Controller Cabinet technical support

Name	Elevator Controller Model MCP-ST/C 0100
Power	5.5kW-45kW.
Speed	0.4-4.0 m/s
Max floor	Stops up to 64 Stops
Control method	Full Collecting Control
Communication	CAN-bus series communication
Applicable main engine	Gearless PM synchronous pulling machine
Brake voltage	Gearless IM asynchronous electric motor
Connector	DC110V/AC110V.....
Elevator type	Plug and Pin connector
Input power	Machine Room
Installation	400V, three-phase 340-440, 50-60Hz
Controller cabinet dimension	On the ground
Main Controller	w1,8xh1,4x1,8, depth 75 mm
Compatible Inverter	STEP SM-01-F5021 Board
Safety Standard	STEP AS320 Series Elevator Inverter GB7588-EN81



BCP/PO 100

STEP Group Control Cabinet Model BCP/PO 100

The group control functions are achieved by STEP Full Serial Control System.

Controller Cabinet technical support

Name	Elevator Group Controller Model BCP/PO 100
Max number of group	3-8 Unit Elevator
Simplex configuration	Only one group control board required and CAB-Bus
Max floor	Max elevator 64 floors
Peak hour mode	Applicable to elevator usage in peak hour of public places such office buildings.
Communication	CAN-bus series communication
Balanced running mode	Optimal elevators allocation to minimize waiting time and reasonable and fast elevator response.
Idle running mode	Even distribution of elevator at designated floor in idle time to minimize the reaction time of landing call.
Automatic removal of reluctant elevator	Short reaction time of landing call.

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STEP Roomless Full Serial VVVF Control Cabinet

Model MCP-SW/F 0400

The control functions are achieved by STEP Roomless Full Serial Control System and easier to adjust by adopting CAN-Bus Serial Communication. Humanized functions, i.e. Simplex, Duplex, Group control, Remote monitoring, Emergency rescue...make elevator operator safer more reliable.

Controller Cabinet technical support

Name	Elevator Controller Model MCP-SW/F 0400
Power	5.5kW-22kW.
Speed	0.4-2.5 m/s
Max floor	Stops up to 64 Stops
Control method	Full Collecting Control
Communication	CAN-bus series communication
Applicable main engine	Gearless PM synchronous pulling machine
Brake voltage	DC110V/AC110V.....
Connector	Plug and Pin connector
Elevator type	Machine Roomless
Input power	400V, three-phase 340-440, 50-60Hz
Installation	On the ground and Wall
Controller cabinet dimension	w1,400xh1,2,100x(d)260 mm.
Main Controller	STEP SM-01-F5021 Board
Compatible Inverter	STEP AS320 Series Elevator Inverter
Safety Standard	GB7588/EN81

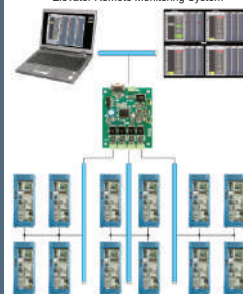


MCP-SW/F 0400

Destination Dispatch System



Elevator Remote Monitoring System



STEP Destination Dispatch System

- Super Efficient** Various leading-edge technology applied such as expert system, fuzzy logic, neural network, etc CAN-Bus based, improve dispatching efficiency greatly.
- Joy-Journey** By destination dispatching system to guide passengers to the assigned lift, it reduces the average waiting time & long waiting ratio to avoid the crowded lobby and rushing people which makes them more comfortable.
- Cost-Saving** With more efficient dispatching, reducing lift deployment in group for same traffic capacity requirement.
- Energy-Saving** Fewer unnecessary stops helps reducing energy consumption in the building.

Support Hybrid & Full DDS Both
Multi-Choice for Destination Selector
Multi-Choice for Destination Indicator

STEP District Monitoring System

- # Supports star and bus connection.
- # 500ms perfect monitoring for 100 units of individual elevator.
- # Real-time fault alarm alert and intelligent trouble shooting.
- # Management based on Multi-level authorization which can be set up by intelligent user software.
- # Multiple interface.

STEP Remote Intelligent Diagnosis System

- # Only 3 Parameters complete debugging.
- # 2-minute vibration curve.
- # Humanized leveling adjustment.
- # Automatically recognize input type(NONC)
- # Intelligently recognize the display board address.
- # Remotely assist in controller adjustment.

STEP Operation Panel Passenger Elevator.



STEP Hall Lanterns Passenger Elevator.



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STEP Display Panel Passenger Elevator.

