

An intelligent elevator control system solution



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ACE1000 series integrated elevator controller





Company profile

Established in 2000, ALPHA Inverter Co., Ltd is a national high-tech enterprises (China) that is concern withe the R&D, production, sales and service of industrial automation equipment, new energy automotive power assembly system and key components.

Our company is headquartered in Shenzhen, Guangdong. Our East China base is located in Jiaxing, Zhejiang. Covering an area of 50,000 square meters, we have many automatic production lines, R&D and reliability laboratories, and have passed the ISO 9001:2015 guality system certification. Alpha is continuously introducing advanced technology at home and abroad, establishing alliances with many scientific research institutions and institutions of higher learning. We take technology as the leading professional innovation, obtaining a great number of inventions, designs and utility models.

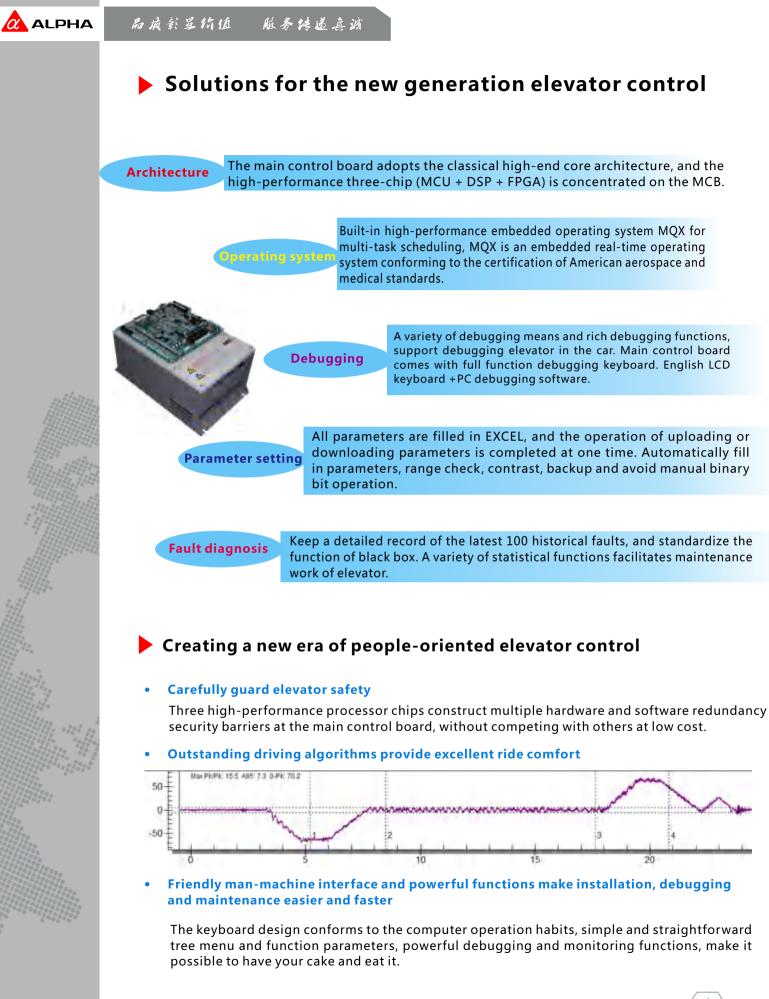
In the field of industrial automation, we are committed to providing a complete set of solutions for mechanical equipment customers with powerful functions, flexible control and excellent performance. Our products have been widely used in machine tools, textiles, metallurgy, lifting, oil deposit, plastics, chemical engineering, municipal administration, etc. At present, the main products are inverter, induction servo, permanent magnet synchronous motor, PLC, HMI, elevator integrated controller, electro-hydraulic servo, etc.

In the field of new energy automobiles, we are committed to pursuing the key technologies of energy conversion and utilization efficiency. We have full coverage of the manufacturers of power assembly system and core parts of new energy automobiles. Our strong portfolio of products includes motor controller, motor, vehicle controller, battery management system, on-board charger, DC/DC power supply, air pump motor controller, steering pump motor controller, etc.

Alpha marketing and service outlets are all over the country, with more than 30 offices and more than 50 joint insurance centers. The products are also exported to Europe, America, Africa, Southeast Asia and other regions. The company has a professional pre-sales, in-sales, and after-sales technical service team to provide customers with professional services throughout. We will take high-quality products and highquality service to satisfy you.

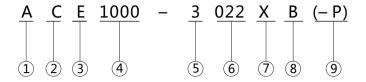
ACE1000 series products profile

ACE1000 Elevator Integrated Controller Series is an economical, high performance, high reliability and high safety product developed by ALPHA Company on the basis of more than 20 years' experience in research and development, production and manufacture of frequency converter. Aiming at elevator controller field, according to the latest national standard of China elevator industry in July 2016, ACE1000 Elevator Integrated Controller Solution is developed by ALPHA Company in 2017. The products have passed and obtained EMC test qualification report and CE certification provided by Chinese professional testing institutions, and relevant type-testing qualification report provided by China elevator industry professional testing institutions.



Service Hotline: 400-77

Naming Rules for ACE1000 Series Products



- 1 Stands for company name : ALPHA
- Product type : Controller 2
- 3 Elevator industry : Elevator
- Product series : 1000 (4)
- **(5)** Rated voltage : S2: single-phase 220V, 2: three-phase 220V, 3: three-phase 380V
- Output power : 2R2: 2.2KW, 022: 22KW 6
- ⑦ Energy feedback : R: Built-in energy feedback, X: No energy feedback
- Braking unit : B: Built-in braking unit, 🗆 : No braking unit 8
- Encoder type : P: UVW encoder, A: ABZ encoder, 🗆 : SinCos encoder 9

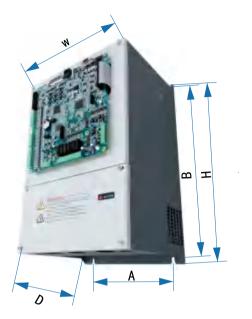




Outline drawing and installation dimensions

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Cross-references for inverter base

Type ACE1000-	Rated capacity (KVA)	Rated input current (A)	Rated output current (A)	Adaptive motor power (KW)	Circuit breaker rated current (A)	Contator rated current (A)	Power wire diameter (mm)
S21R1XB	2	9.2	5.2	1.1	16	10	2.5
S21R5XB	2.9	13.3	7.5	1.5	16	10	2.5
S22R2XB	3.9	17.9	10.3	2.2	25	16	2.5
S23R7XB	5.9	25.3	15.5	3.7	32	25	4
S25R5XB	8.6	34.6	22.5	5.5	40	32	6
22R2XB	4	11	9.6	2.2	25	16	2.5
23R7XB	5.9	17	14	3.7	32	25	4
25R5XB	10	29	27	5.5	40	32	6
32R2XB	4	7	6	2.2	16	10	2.5
33R7XB	5.5	10.7	9	3.7	25	16	2.5
35R5XB	7.5	15.5	13	5.5	25	18	2.5
37R5XB	11	18	17	7.5	32	25	4
3011XB	15	26	25	11	40	32	6
3015XB	18.5	35	32	15	50	38	6
318R5XB	22	39	37	18.5	63	40	10
3022XB	30	47	45	22	80	50	10
3030XB	37	63	60	30	100	65	16
3037XB	45	78	75	37	100	80	25
3045XB	55	93	90	45	160	95	35

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Туре	А	В	н	W	D	Locating hole diameter φ
S21R1XB	150	334	350	235	166	8
S21R5XB	150	334	350	235	166	8
S22R2XB	193	360	375	235	206	8
S23R7XB	193	360	375	235	206	8
S25R5XB	193	360	375	235	206	8
22R2XB	150	334	350	235	166	8
23R7XB	150	334	350	235	166	8
25R5XB	193	360	375	235	206	8
32R2XB	150	334	350	235	166	8
33R7XB	150	334	350	235	166	8
35R5XB	150	334	350	235	166	8
37R5XB	193	360	375	235	206	8
3011XB	193	360	375	235	206	8
3015XB	230	440	460	285	276	8
318R5XB	230	440	460	285	276	8
3022XB	230	440	460	285	276	8
3030XB	250	550	565	300	280	8
3037XB	250	550	565	300	280	8
3045XB	250	550	565	300	280	8

Note: D is the thickness of the controller (the maximum distance from the bottom of controller to the top of PG card)

Main technical indicators and application scope

• Technical Indicators

- Maximum elevator speed is 4m/s, maximum total number of floors is 48.
- Maximum number of parallel control is 4, maximum number of group control is 8.
- Leveling accuracy is ±5 mm.
- Adaptive power range: 1.1kw~45kw. Covering the range of 220V/380V household lifts to high-speed lifts.
- 220% rated current can last 3 seconds, 180% to 10 seconds and 150% to 120 seconds.
- Main control board IO: Maximum 40 inputs(3~4 AC110V or DC110V), Maximum 10 outputs.
- Communication port: 3 CAN, 1 RS485/RS422 (on the board), 1 RS422 (Extended), 1 RS232.
- Save details of the last 100 failure records.
- Black box recording time \geq 72 hours.

• Application Scope

- Single elevator, 2~4 parallel control elevators, 5~8 group control elevators.
- Passenger elevators, cargo elevators, hospital elevators, villa elevators, etc.
- Rated speed≤4m/s.

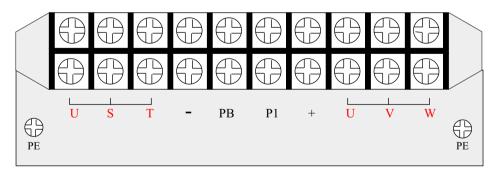
• Encoder type

- SinCos Encoder.
- UVW Photoelectric Encoder.
- ABZ Incremental Encoder.

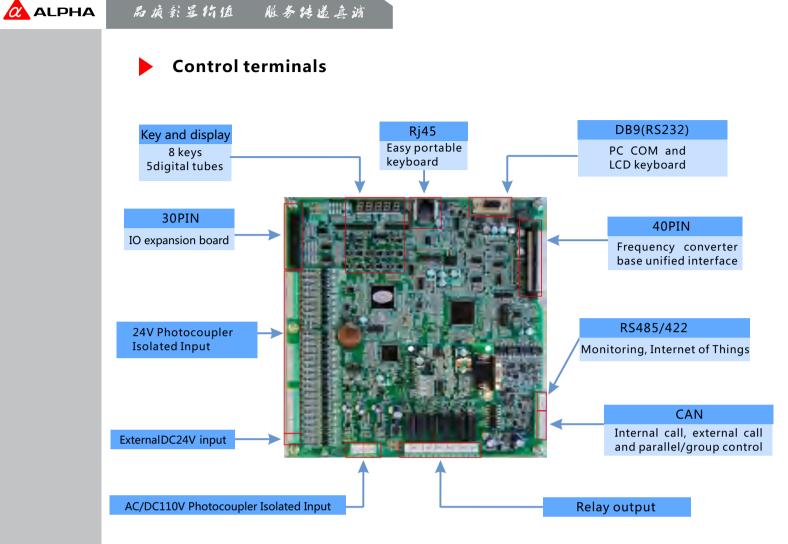
• Input voltage

- Single-phase : 200~240VAC
- Three-phase : 200~240VAC
- Three-phase : 340~450VAC

Main power circuit terminals



Label	Name	Remarks
R/L、S、T/N	Power input terminal	single-phase/three-phase power input terminal AC220V/AC380V
P1、(+)	DC reactor terminal	External DC reactor reserved terminal, DC reactor is optional
(+)、PB	Brake resistance terminal	External brake resistance terminal
(+)、(-)	DC Bus terminal	DC positive and negative bus output terminal
U, V, W	Driver output terminal	Three-phase AC output terminal
PE	Grounding terminal	



Name	Label	
DC24V input	X4~X30 P24、 GND,	TP3811 Photoc is exter
AC/DC110V input	X1~X3 , AM	TP508H car doo short co AC95V-
Relay output	Y1/M1~Y10/M10	Max 54 main ru on Exte
	CAN0H/CAN0L	Interna
CAN bus	CAN1H/CAN1L	Paralle
	CAN2H/CAN2L	Externa
RS485/422	422A/422B/422Y/ 422Z	Monito
RJ45		Easy p
IO expansion		30PIN input, 4

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Remarks

LH-00V-12P, TP381H-00V-8P, TP381H-00V-10P terminal. ocoupler Isolated input. X17~X30 User-defined. P24 and GND ernal DC24V power input. Input signal level DC12V ~ DC30V.

BH-00V-4P terminal. Photocoupler Isolated input. Safety circuit, oor lock / series door lock input, hall door lock input, door lock connection detection. AM is common port. Input signal voltage: V-AC125V.

6A/250VAC or 3A/30VDC. Y1/Y1M for brake control,Y2/Y2M for running contactor. Y3/Y3M~Y10/Y10M is user-defined. Y7~Y10 tension Board.

nal call

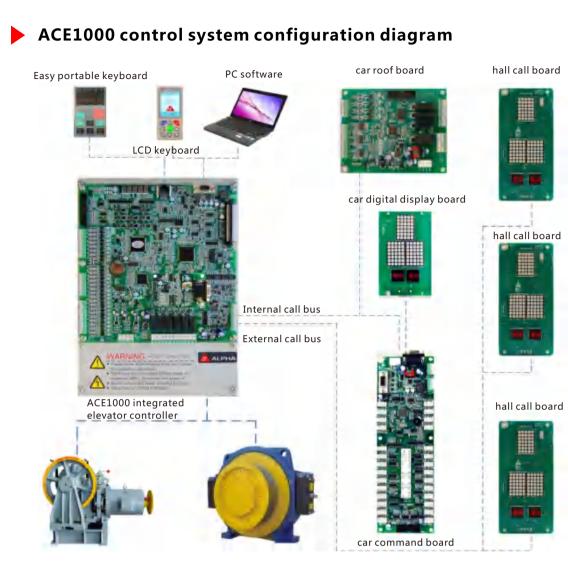
el and group control

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toring, Internet of Things, etc.

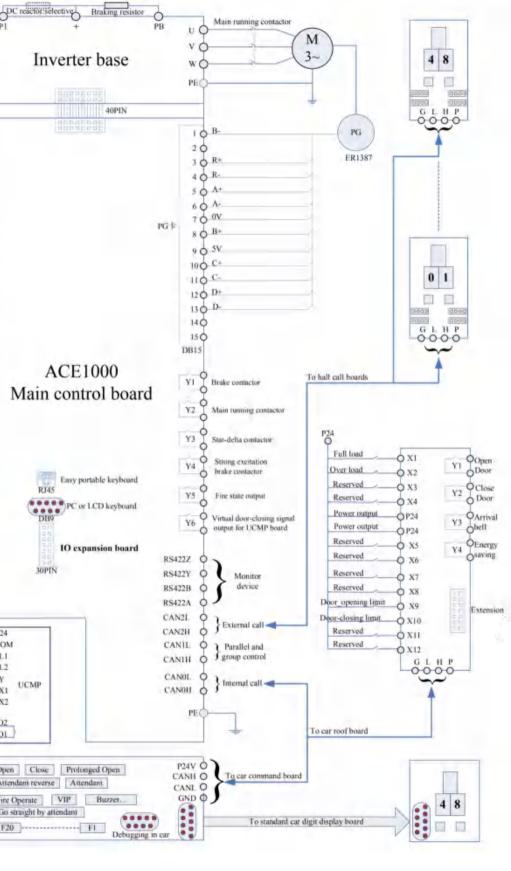
portable keyboard

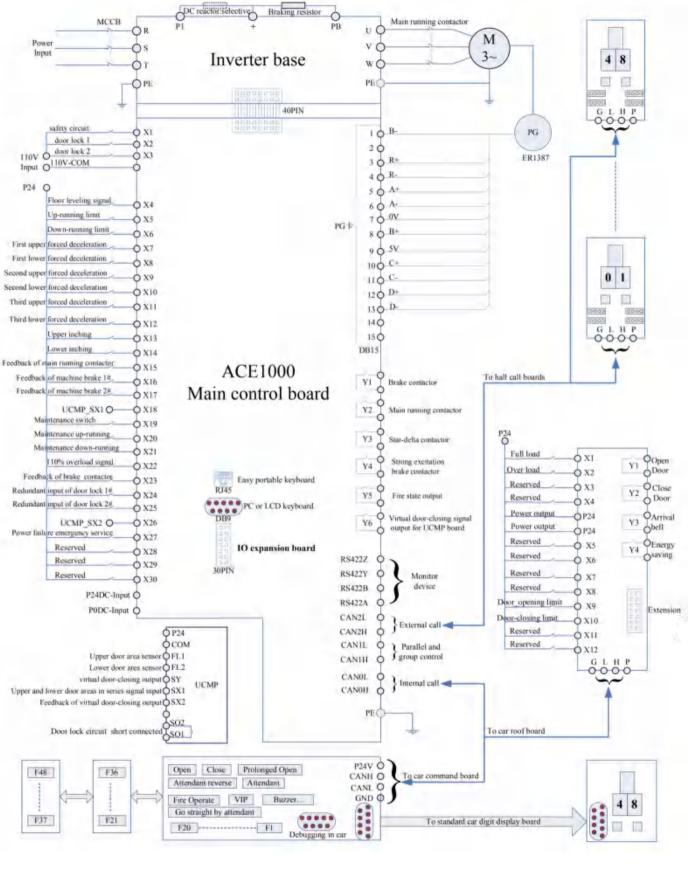
I simple horn socket. Extensible 10 DC24V optocoupler isolation , 4 relay output, 1 RS422. IO is user-defined.





品质彰显绗值 服务传递喜游 Schematic diagram of elevator control system wiring DC reactor Selective Braking resistor MCCB Main running contactor 0 OI M 0 Inpu 3. Inverter base Ò O PI 40PIN safety circuit OB-O XL door lock I O X2 20 110V O door lock 2 O X3 Input O110V-COM 3 0 R+ Ô 40 R-P24 O 5 0 A+ Floor leveling signal. -O X4 60 A-7 0 OV Up-running limit OX5 PG 8 Q B+ Down-running limit -O X6 First upper forced deceleration 9 0 SV -O X7 First lower forced deceleration. O X8 100 C+ Second upper forced deceleration -O X9 110 C-Second lower forced deceleration O X10 120 D+ Third upper forced deceleration OXII 130 D-Third lower forced deceleration 140 O X12





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Control function list

No.	Name	No.	Name
1	All calls response entirely	2	Door stop (no opening and closing)
3	Only down calls response	4	Random/Floor-by-floor running
5	Protection for undervoltage and overvoltage of power supply	6	Keyboard call holding
7	Protection for overcurrent and overheat of inverter	8	External call prohibition
9	Protection for phase shortage of input power and output short circuit	10	Real time control
11	Protection for fault detection of encoder	12	Time sharing and floor dividing service
13	Overload indication, alarm and protection	14	Automatic control of door-opening time
15	Overspeed protection	16	Prolong door-opening time control
17	Protection for door lock short circuit	18	Running times sum up
19	Sliding protection for tractive steel wire cable	20	Running time sum up
21	Protection for Elevator door touch panel	22	Door opening in advance of car stop
23	Protection for Elevator door light screen	24	Re-leveling on door-opening state
25	Protection for Elevator door-machine overload	26	Automatic/manual detection for brake valid torque
27	Protection for abnormal door opening and closing time	28	UCMP function and test
29	Protection for disconnection of door lock and safety circuit when running	30	Auxiliary/double brake control
31	Protection for forced deceleration	32	Double detection for brake holding
33	Fault classifying and hierarchical processing	34	Car IC-card control function
35	Automatic fault detection and alarm	36	Hall IC-card control function
37	Automatic record and statistics of faults	38	Display in car for out call message
39	Low-speed self-rectifying operation in fault	40	Lift attendant operating function
41	Automatic re-selectimg the next floor in door-opening fault	42	Double car command board operation function
43	Alarm when parking in non-door area	44	VIP passenger dedicated function
45	Automatic correction of abnormal floor location(floor err)	46	Special facilities for physically disabled
47	Parallel and group management control	48	Automatic ID setting of external call board
49	Non-call, self-returning to home landing floor	50	Button-conglutination judgement of internal and external call, opening and closing door
51	Car stand-by dispersedly in parallel and group control mode	52	Judgment of absence of external calling board
53	High-low-feet compensation in parallel and group control mode	54	External calling board analogs displaying door opening and closing actions



55	Peak load operation mode under parallel	F.C.	Internal and external call communication
55	and group control mode	56	protocol can be encrypted
57	Examine and repair running mode (maintenance mode)	58	External calling board buzzer function
59	Emergency electrical operation supported	60	Custom-defined special digital display
61	Self-measurement of the floor height	62	Call for help from the car to the hall
63	Earthquake control operation	64	Full CAN communication among control boards
65	Fire forced landing back to home landing floor	66	IO point status monitoring
67	Firefighter operation	68	IO terminal customization
69	Parking of lift (manual or time control)	70	IO on the control board can be expanded
71	Power failure emergency service	72	Elevator debugging and adjustment in car
73	Double doors control (including through	74	Chinese/English LCD keyboard debugging
/3	door and independent door)	74	(parameter backup)
75	Set a limit to operating times by user	76	Serial communication debugging
77	Straight going/passing when in full-load	78	Mobile phone App debugging
79	Anti prank for internal call	80	Full debugging on the main control board
81	Automatic elimination of reversed internal instructions	82	Easy portable keyboard debugging
83	Cancellation of incorrect instructions in car	84	Wireless/remote monitoring interface (GBT24476-2017 China)
85	Skip floors without stopping	86	Integrated upload/download elevator parameters
87	Start-up compensation with weighing-device	88	Easy-transfer parameters to the new when replacing main control board
89	Start-up compensation without weighing-device	90	Backup/recovery of off-chip parameters from/to main control board
91	Arrival light/bell in car	92	Static self-learning of motor parameters
93	Arrival light/bell in hall	94	Auto multi-segment speed and ultra-short floor recognition
95	Voice announcing/broadcasting in car	96	Direct stopping at the floor leveling
97	Energy-saving control of lighting and fan in car	98	Black box record of operating status
99	Special statistics for the convenience of maintenance	100	Hierarchical password control of elevator parameters
101	Signal satisfaction test/check	102	Security floor at night
103	Backup/recovery of default factory parameters	104	Door opening and closing test independently
105	Troubleshooting of elevator emergency stop	106	Open the door on the leveling floor before the elevator is corrected to the terminal floor
107	Automatic brake-loosing rectifying	108	Elevator external call turning to internal ca service specially
109	Faults reset conditionally and Intelligently	110	Door-opening standby for passengers
111	Normal opening door change to inching action door in emergency	112	
lote: So nginee	ome of the functions are not listed here. For de r.	tails of e	ach, please consult Alpha technical support

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Commonest supporting products



UVW encoder card

car roof board

Function configuration : adapting synchronizer UVW encoder, doing pulse counting, steering recognition, electric angle recognition, speed feedback. Usually when the car is equipped with analog weighing device, it is selected.

Hardware configuration :

CAN communication, 12 digital input (including four two-way input), 4 relay output, with expansion interface



SinCos encoder card Function configuration :

adapting SinCos encoder of synchronous motor to do pulse counting, steering recognition, electric angle recognition and speed feedback. Usually when there is no analog weighing device in the car.



Hardware configuration : 8 digital input, 4 relay output and one 0~10V analog input (weighing).

Function configuration : double-door control, analog weighing for pre-torque compensation, and non-standard function.

communication, with buzzer, three 5×7 red dot arrays, $1 \sim 2$ LED blocks. Function Configuration : Elevator up and down call, elevator parking input, fire control input, floor and direction dynamic display, maintenance, overload display, out-of-hall arrival bell control, failure display, call for help display and buzzer warning.

IO expansion board

Functional configuration :

10 inputs, 4 outputs and 1 RS422 can be extended.

car digital display board

Function configuration : communicate with the car command board through DB9 interface, dynamic display of floor and direction, with maintenance and

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4 safety relays. Function configuration : Unintended car movement monitoring for synchronous motor, door opening in advance of car stop, inching to re-level with door-opening.

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Monochromatic/True color LCD hall call board Hardware configuration 4.3 "and 6.4" screen sizes, CAN communication, with buzzer. **Function Configuration**: Elevator up and down call, elevator up and down can, elevator parking input, fire control input, floor and direction dynamic display, maintenance, overload display, out-of-hall arrival bell control, failure display call for help display and buzzer warning.

Multi-lattice call and display board **Function Configuration :**

Elevator up and down call, elevator parking input, fire control input, floor and direction dynamic display, maintenance, overload display, out-of-hall arrival bell control, failure display, call for help display and buzzer warning Automatic buzzer warning. Automatic energy saving function, with vertical and horizontal modes.

Elevator advertising machine

7 inch, 8 inch, 10.4 inch, 12.1 inch and 15 inch screen sizes, with voice, CAN communication. Function Configuration Elevator floor and direction display, time and temperature display, overload, maintenance, fire control, failure display, etc., update advertisement through USB or network.

















overload display, large font, with vertical and horizontal modes.



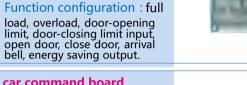
easy portable keyboard

connected in series.

Hardware configuration : 5 digital tubes, 8 indicator lights, 8 keys.







car command board Hardware configuration : CAN communication, 20 floor button input, 12 custom input custom output, buzzer, debugging interface, expansion interface and digital display interface.

Function configuration Internal call, open and close the door, prolong door-opening time, attendant control, attendant reversing, fire control, attendant straight going, independent, overload and fault buzzer output.

car command expansion board

Function Configuration : Adding one can expand 16 floors and two boards can be



standard hall call board Hardware configuration : CAN



UCMPB-A Hardware configuration :	UCMPB-C Hardware co



vare configuration : 4 safety relays. Function configuration : Unintended car movement monitoring for asynchronous motor, secondary brake control, door opening in advance of car stop, inching to re-level with door-opening.



English LCD keyboard Hardware configuration : 2.8 true color industrial LCD, real time. **Function Configuration**

Full English user interface, multi-level tree menu structure, keys in line with PC operation habits, can completely replace the easy portable keyboard for elevator parameter setting, status monitoring, fault query, control elevator running, parameters upload and download, etc

Ultra-thin hall call board Hardware configuration : CAN communication, with buzzer, two or three 5*7 red dot matrix.

Function Configuration : Elevator up and down call, elevator parking input, fire control input, floor and direction dynamic display, maintenance, overload display, out-of-hall arrival bell control, failure display, call for help display

Hardware configuration :



True color LCD external call and display board

Functional configuration :

and buzzer warning.

CAN communication, backlight life more than 30000 hours, with Up/ Down arrival bell ring and voice reporting floor functions. Elevator up/down call, floor and direction display.





FEATURES

Perfect combination of drive and control

MCU, DSP and FPGA are centralized on the main control board to provide multiple protection for security. Elevator operation logic control, synchronous and asynchronous motor frequency conversion drive, board-level security protection, parallel and group control, serial communication, debugging function, fault handling, statistical functions are centralized in the main control board of a highly integrated control system.

• High-end and Upper-grade Core Architecture

FREESCALE Cortex M4 Core Architecture MCU + RENESAS High Performance DSP + ALTERA High Performance FPGA. The classical three-chip architecture of elevator control system can redundantly handle elevator safety in hardware and software.

MQX Embedded Operating System on the Main Control Board

MQX itself has passed the certification of CFR 820.30 Part 21 and IEC 60601-1, and meets the requirements of aerospace listed in DO-178b. Embedded operating system is the spirit of multi-task real-time scheduling, and also the guardian of elevator security.

Debugging tools have a friendly human-computer interaction experience

All keyboards are designed with minimalist "ESC + MENU + ENTER + Direction" keys. The key setting and layout conform to the computer operation habits. All keyboard functions are invoked with tree directory structure menu, taking into account "simplicity + convenience + efficiency".

• Full range of products

Type of input power supply: single-phase 220V, three-phase 220V, three-phase 380V. The adaptive motor power ranges from 1.1kw to 45kw.

Rich supporting products

Common supporting products are all available, and new ones will be introduced one after another.

Easy and Unique Method of Setting Parameters

All elevator parameters are filled in EXCEL software. Parameter setting software can automatically check whether the parameters filled by customers conform to general rules, and can automatically fill in most of the parameters, with backup, comparison and other functions.

Minimalist Method of Uploading and Downloading Parameters

The upload and download of elevator parameters can be completed by PC software and serial port at one time. At the same time, it has the function of parameter comparison and check. It supports the parameters of EXCEL and TXT formats.

• Onboard full - function debugging keyboard

The main control board comes with a full-function keyboard, as long as you can remember the elevator password is OK.

• Fast Blocking Wave Generation, Instantaneous Switching off IGBT

With the help of powerful three-chip architecture, ACE1000 has high security redundancy and fast blocking time has been reduced to nanosecond level.

• Strict hierarchical password

Elevator parameters are controlled by three levels of passwords, which can prevent violent cracking. Different levels of passwords are authorized to different qualified personnel, and different levels of password operation rights is different, which can not only prevent parameters from being tampered but also protect their legitimate rights and interests.

• Adequate number of IO ports

The main control board has 30 input and 6 output ports. It can also expand 10 input, 4 output and 1 RS422. Most of the IO port functions, normally open or normally closed properties can be customized by the user.

• Adequate power margin

The actual power of ACE1000 converter base is much larger than the nominal rated power, and the power margin is about 25% higher than that of the common counterparts.

• Three Independent CAN Bus

The main control board is equipped with 3 independent CAN bus, which is provided for internal calling, external calling, parallel and group control functions respectively. The three CAN bus are independent of each other, any external interference will not be crosstalk, and data density is reduced to improve real-time communication. The distribution of CAN communication function can be controlled by parameters.

• Parameter internal backup and Care-free board replacing

ACE1000 saves elevator parameters in MCU, and extends EEPROM for backup. It can be recovered from EEPROM if the current parameters are manually misoperated. The parameters on the old board can be transferred to the new board instantaneously with only one dedicated data line and the parameter transfer function.

• Call for help from car to hall

If the elevator breaks down and traps people in the car, the ACE1000 car's call-for-help function can let the waiting passengers on each floor know that someone is trapped in the car, so that more people can help you escape from the trapped elevator.

Black Box for Elevator Operation

The system uses a large capacity FLASH chip (non-SD card) to store the black box information. Information can not be deleted or falsified to achieve the function and purpose of the black box.

• Easy and powerful parallel control

Two lines can realize parallel elevator control, and the number of parallel elevators can reach four without using group control board.

• A large number of detailed failure records

Storage of the latest 100 detailed fault information, no need to set up a specific fault capture, easy maintenance personnel to find and deal with the fault.

• All external call boards are equipped with buzzers

The type and level of buzzer alarm can be controlled by parameters. Sound alarm can prevent passengers from jumping into the abnormally opened hall door and falling into the hoistway.

• Signal satisfaction test/check

ACE1000 innovatively enables you to check what signals are missing in the current mode of operation, allowing you to locate the missing or error signals one step at a time.

• No customization is required for internal and external display

ACE1000 allows users to draw special characters in EXCEL, use these custom characters to compose internal and external call display content, and automatically generate corresponding parameters.



FEATURES

• Various statistical functions to facilitate maintenance work

Count up the number of times the elevator is used on each floor, the number of specific failures on each floor, what are the most frequent failures and so on.

- The hall call board simulates the action of opening and closing the door and the real-time speed of the elevator. There are various ID setting methods.
- True color English LCD keyboard supports elevator parameters debugging in car.

• Powerful and rich functions

The system has many unique functions, more than 100 functions to meet your daily use and installation and maintenance requirements.

• Various debugging methods

Onboard full-function keyboard, easy portable keyboard, LCD keyboard, PC software, mobile phone application, remote debugging.

• Powerful Real-time Control Functions

Call service on time-sharing floor, Enter the parking mode at the set time, Timely rush hour mode, Timely only down call mode, Timely brake torque test, Timely security floor at night, Timely VIP.

• Deal with anomalies easily

According to abnormal conditions, automatic leveling floor, active forced landing, floor correction, closing the output, etc. Ensure the safety of elevators and passengers in the case of fire fighting, power failure, earthquake, lightning strike, signal failure and mechanical failure.

Elevator control cabinet products

ACE1000-SCC01: model 01 standard control cabinet



2.1	Motor type	Synchronous motor, Asynchronous motor	
	Controller	ACE1000 series integrated elevator controller	
	Power	≤22KW	
	Speed	≤3m/s	
	Max floors	48	
C	Wiring	The plug-in	
	Weighing	with AD weighing device, withot AD weighing device	
	Brake voltage	AC110 \DC110V	
	Communication	CAN bus	
	National standard	Door locks bypass, UCMP, door lock shorted detection	
B	Contactor	Fuji SC Series AC Contactor	
	Connector type	AMP(TYCO) Universal MATE-N-LOK	
	Power supply	AC380V	
	Elevator type	have machinery-room	
	Installation mode	On the ground	

SERIES PRODUCT LIST

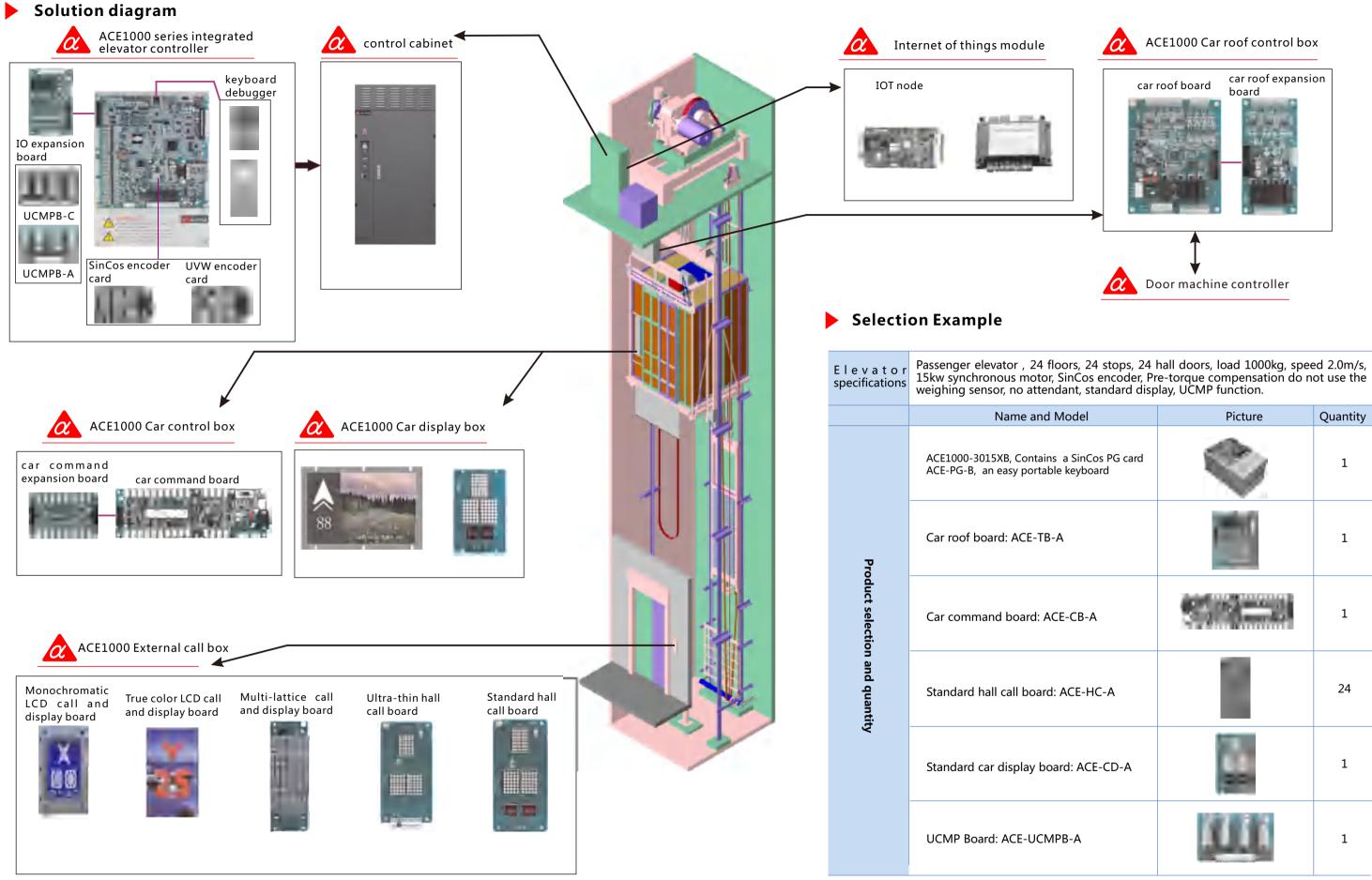
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	Name
ACE1000	main control board
ACE1000	Inverter base
ACE1000	car roof board
ACE1000	car roof expansion board
ACE1000	car command board
ACE1000	car command expansion board
ACE1000	Standard external/hall call board
ACE1000	Multi-lattice call and display board
ACE1000	Ultra-thin hall call board
ACE1000	True color LCD call and display boa
ACE1000	Monochromatic LCD call and displa
ACE1000	Monochromatic LCD call and displa
ACE1000	LCD advertising machine (7")
ACE1000	LCD advertising machine (8")
ACE1000	LCD advertising machine (10.4")
ACE1001	LCD advertising machine (12.1")
ACE1002	LCD advertising machine (15")
ACE1000	UVW encoder card
ACE1000	SinCos encoder card
ACE1000	ABZ encoder card
ACE1000	IO expansion board
ACE1000	UCMP Synchronous motor
ACE1000	UCMP Asynchronous motor
ACE1000	standard car display board
ACE1000	group control board
ACE1000	Voice broadcast machine
ACE1000	supporting software
ACE1000	mobile phone application
ACE1000	standard control cabinet
Easy port	table keyboard
LCD keyb	poard
ACE1000	Wireless monitoring Internet of thir

	Model	Size(mm)	Remarks
	ACE - MCB - A	220 × 220	Standard
			Standard, A variety of power
	ACE -TB - A	100 × 125 × 20	Standard
	ACE -TB - E	60 × 125 × 20	Optional, With analog weighing input
	ACE -CB -A	250 × 80 × 20	Standard
	ACE -CB -E	120 × 80 × 20	Optional
	ACE -HC -A	145 × 70 × 15	Optional
	ACE -HC -B	189 × 65 × 15	Optional
	ACE -HC -C	145 × 70 × 8.5	Optional
ard (4.3~7")	ACE -HC -E4/5/6/7	143 × 79 × 15	Optional
ay board (4.3")	ACE -HC -D4	143 × 79 × 15	Optional
ay board (6.4")	ACE -HC -D6	180 × 131 × 15	Optional
	ACE -HC -T7	194.5 ×129.4 ×25	Optional
	ACE -HC -T8	209.5 ×153.5 ×25	Optional
	ACE -HC -T10	270 × 233 × 35.6	Optional
	ACE -HC -T12	304.4 ×261 ×35.6	Optional
	ACE -HC -T15	363.4 × 303 × 35.6	Optional
	ACE -PG -A	75 × 50 × 25	
	ACE -PG -B	75 × 50 × 25	Standard, one of encoder card
	ACE -PG -C	75 × 50 × 25	
	ACE -IO -A	110 × 85 × 18	Optional
	ACE - UCMPB - A	113.5 ×72×30	Optional
	ACE - UCMPB - C	112 × 70 × 30	Optional
	ACE -CD -A	115 × 185 × 20	Optional
	ACE -GC -A		Optional, for 5~8 elevators
	ACE -SP - A	107.5 × 59 × 36	Optional
	ACE - DATA - A		Standard, free download
	ACE100 -APP -A		Optional
	ACE1000 -SCC01	Relating to the power section	Optional, A variety of pow
	ACE - KB - A	72×110×15	Standard
	ACE - KB - B	135 × 70 × 25	Optional
ings module	ACE -WL -A		Optional





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and Model	Picture	Quantity
ntains a SinCos PG card ortable keyboard		1
E-TB-A		1
rd: ACE-CB-A		1
oard: ACE-HC-A		24
y board: ACE-CD-A		1
UCMPB-A	111	1

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