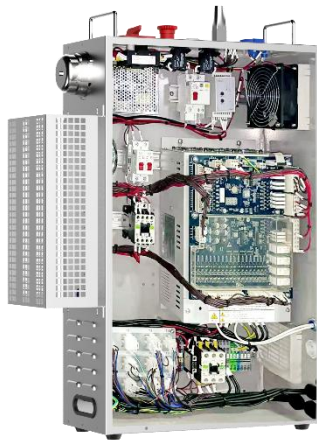


IECB-II

Escalator Products and Accessories Selection Manual



Preface

Thank you for choosing IECB-II series elevator products

Notice

- In order to illustrate the details of the product, the illustrations in the manual sometimes show the state of removing the cover or safety cover.
- When using this product, please be sure to install the casing or cover as required, and operate according to the contents of the manual.
- Illustrations in this manual are for illustration only and may differ from the product you ordered.
- Due to product upgrades or specification changes, and for the convenience and accuracy of the manual, the contents of this manual will be changed in time.
- When you need to order manuals due to damage or loss, please contact the company's regional agents, or directly contact the company's customer service center.
- If you still have some unexplained problems during use, please contact our customer service center.

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1、IECB-II Escalator integrated control cabinet



GC1501-A



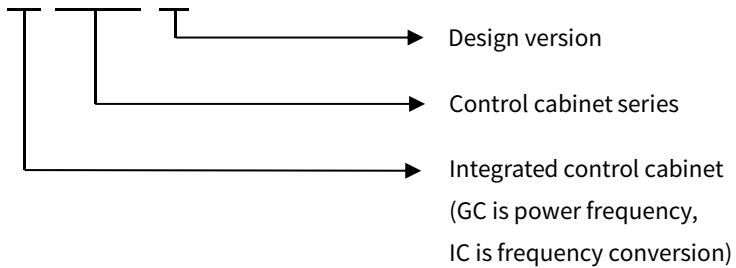
IC1502-A



IC1503-A

Naming rules

GC 1501 - A



Features

- ★ The first security version logic board 2 in 1 in China
- ★ 32-bit processing chip
- ★ DC24V safety circuit, and passed PESSRAE certification, safe
- ★ IECB-II safety logic board integrates 9 sets of safety circuit monitoring points

and 3-digit digital display tube

- ★ Whole elevator parameter self-learning, simplify debugging operation
- ★ Certified by TUV and CE
- ★ Ultra-thin design, indoor control cabinet as thin as 210mm
- ★ There are rich expansion functions, expandable I/O: 76 input + 32 output

Product specification

Model	GC1501-A	IC1502-A	IC1503-A
Name	Power frequency control cabinet	Full frequency conversion control cabinet	Bypass frequency conversion control cabinet
Control method	Star-delta	Full frequency conversion	Bypass frequency conversion
Standards compliant	GB16899-2011; EN-61439-2:2011; EN12015:2014; EN12016:2013		
Speed	≤0.9m/s		
Power	≤18.5KW	≤30KW	≤18.5KW
Size (mm)	470*170*751	474*211*751	474*211*751

Input power

Phase number, voltage, frequency	3 phase: 220V/380V/415V 50/60Hz	3 phase: 380V/415V 50/60Hz
Three-phase unbalance factor	15%	15%
Voltage range	3 phase: 220V±15% 3 phase: 380V±15%	3 phase: 340V~480V
Allow frequency fluctuation	15%	15%

Output voltage

Brake voltage	AC200V/AC110V/DC110V
Additional brake voltage	AC200V/AC110V/DC110V
Lighting voltage	AC220V/DC24V

Scalability

Function expansion board	EFEB board: 10 input, 8 output; Maximum number of extensions: 2
Fault acquisition board	ETCB: 18 input; Maximum number of extensions: 2

Function configuration

Security function	9 PESSRAE certified functions
Logic function	38 standard; 10 optional
Safety circuit monitoring point	9 partition monitoring
Fault display/record	

For details, please refer to: 《GC1501-A Control Cabinet User Manual》
《IC1502-A Control Cabinet User Manual》
《IC1503-A Control Cabinet User Manual》

2、LC1504-A Escalator Multifunction Display



Main control Cabinet



Drive Cabinet



Junction Boxes



Junction Box

Features

- ★ Distributed system design of dual main boards + junction boxes, truss wiring efficiency increased by $\geq 20\%$, and space requirements reduced by 20%
- ★ Compared with common competing products in the industry, the integration level is increased by 100%, and the wiring harness in the cabinet is reduced by 30%
- ★ Design according to T/CEA301-2019
- ★ Standard configuration can cover $\geq 99\%$ of functional requirements
- ★ 21 harsh environmental simulation tests with a standardization rate of 99%
- ★ $-20^{\circ}\text{C}\sim 60^{\circ}\text{C}$ ambient working temperature

Product specification

Model	LC1604-A
Name	Dedicated Control System for Heavy Escalators
Control method	Star-delta + Full frequency conversion
Standards compliant	B16899-2011 ; EN-61439-2:2011 ; EN12015:2014 ; EN12016:2013 T_CEA 301-2019
Speed	$\leq 0.9\text{m/s}$
Power	$\leq 45\text{KW}$
IP	IP55

Input power

Phase number, voltage, frequency	3 phase: 220V/380V/415V、50/60Hz;
Three-phase unbalance factor	15%
Voltage range	3 phase: 220V~480V
Allow frequency fluctuation	15%

Output voltage

Brake voltage	AC200V/AC110V/DC110V
Additional brake voltage	AC200V/AC110V/DC110V
Lighting voltage	AC220V/DC24V

Function configuration

Security function	9 PESSRAE certified functions
Logic function	97logic detection functions, $\geq 99\%$ heavy duty escalator function coverage
Safety circuit monitoring point	54 sets of partition monitoring, 1 to 1 fault display
Fault display	Main board 3-digit segment code display & key switch box LCD display & multi-function display
Fault record	≥ 1000

For details, please refer to: 《LC1604-A Control Cabinet User Manual》

3、KB5-A Escalator Multifunction Display



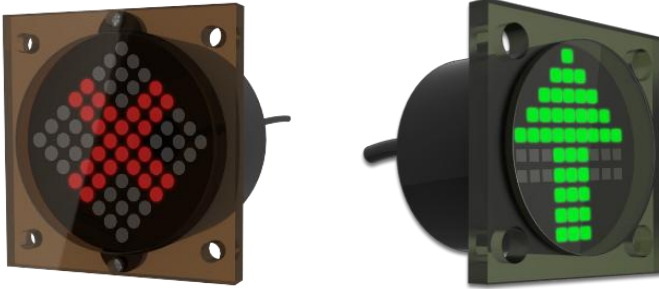
Size (mm)	283*80*72.5
Display content	Running status, fault information, running direction
Historical fault query	Support 20000 historical fault query
Button	Up/down page key, return key, confirmation key
Protocol	485
Power Consumption	<3W
IP	IP65
Voltage	DC24V±10%
Ambient working temperature	-20°C~+60°C





4、KB1-A key Switch Box



Size (mm)	220*37.2*78
Display content	Escalator status, running direction, fault code
Display Power Consumption	<1W
Button	Two-way start key, stop key
Protocol	485
Power Consumption	<3W
IP	IP65
voltage	DC24V±10%
Ambient working temperature	-20°C~+60°C

5、XL1-A1/A2 Traffic Lights



Size (mm)	85*82*50	61.5*61.5*40
Display content	 Run  Stop	 Run  Stop
Display Power Consumption	<1W	
Wiring	three-wire	
IP	IP65	
cable length	2m、6m、8m	
IP	IP65	
voltage	DC24V±10%	
Ambient working temperature	-20°C~+60°C	

6、TGSJ-LED24 Handrail Germicidal Lamps



Size (mm)	129*90*86.5
Best sterilization distance	<15mm
Light	LED 3535 * 12PC
Wavelength	270~285nm
Sterilization rate	>99%
Power Consumption	<3W
IP	IP65
Voltage	DC24V±10%
Ambient working temperature	-25°C~+60°C

7、IOT Gateway-B Data Gateway Device



Size (mm)	100*45*25
Signal interface	RS422\485 (reserve)
Antenna interface	GSM
Network Type	NB、4G (In development)
Protocol	485
Installation method	Magnetic attraction/screw fixing
IP	IP65
Voltage	DC4.5V~5.5V
Ambient working temperature	-20°C~+60°C

Appendix version change record

Date	Changed Version	Changed Content
20211101	A00	First edition release