



CAHT-YPU

使用说明书 Manual

微机控制杂物电梯控制柜

Goods lift control cabinet controlled
by microprocessor

Information No: ZL-CAHT-PU01

目 录

Content

一、Electric diagram	1
二、Electric basic configuration	6
三、Standard function setting form	6
四、Optional function configuration form	7
五、Indicator function definition	7
六、Input terminal function definition	7
七、Output terminal function definition	8
八、Function narrate	9
九、Operation notice	9
十、Fault code	10
十一、Component symbols narrate	10
十二、Control cabinet diagram	12
十三、Wiring instruction form	13
十四、Debugging narrate	16

二、电气基本配置

Electric basic configuration

型 号: YPU Model: YPU

电源要求 Power supply:: 24V \pm 7% 输入纹波 Input ripple: 3%

层 Floor 站 Landing: 8层 Floor8站 Landing

输入驱动 Input drive: DC24V 7 MA

驱动能力 Drive capability: AC250V/3A/无源触点 passive contact I/O 驱动点 I/O
drive point: 57dot

最大服务层 Maximum service floor: 8 层 Floor8 站 Landing DC30V /3A

最大驱动门 Maximum drive door: 前后双开门 Front and rear double opening 四

层板工艺制作 Four layers techniques

元件配置 Component configuration:

序号 No.	名 称 Name	型 号 model	产 地 Origin
1	CPU	AT89S52	美国 ATMEL America ATMEL
2	INPUT IC	PS2501	日本 NEC Japan NEC
3	OUPUT IC	ULN2003	美国德州 America Texas
4	POWER IC	IR3M03	日本 SHARP Japan SHARP
5	继电器 relay	超薄 ultra thin	松下、OMRON、日本高坚泽 PANASONIC,OMRON,
6	高频滤波	独石	日本红宝石

	High frequency filter	monolithic	Japan RUBYCON
7	低频滤波 Low frequency filter	钽电容 Tantalum capacitor	日本红宝石 Japan RUBYCON
8	端子排 Terminal row		台湾天得 Taiwan Tend

三、标准功能表

Standard function form

1、呼梯使能 Hall call enabling	2、按钮自动选层运行 Push button floor automatic chosen run
3.自动定向 Automatic direction	4、到层自动停车 Floor arrival automatic stop
5.按钮记忆 Push button memory	6、到层自动熄灯 Floor arrival automatic black out
7.检修运行功能 Inspection run function	8、呼梯防捣乱功能 Call anti-nuisance function
9 楼层呼梯指示 Floor hall indication	10、提醒关门指示 Remind door close indication
11.运行启动提示 Start running alarm	12、到层提示 Floor arrival alarm
13、开门提示 Opening alarm	14、允许运行提示 Run arrowed alarm
15、故障记忆 Fault memory	16、故障显示 Fault display
17、感应器损坏检测 Sensor damage inspection	18、运行接触器损坏检测 Run sensor damage inspection
19、曳引机空转检测 Traction machine stall inspection	20、刹车报死检测 Brake lock inspection
21、溜车故障检测 car rolling fault inspection	22、断电实时记忆 Power failure real time memory
23、运行方向指示 Run direction indication	24、反方向运行保护 reverse directional run protection
25、停层断开动力电源 Parking land off power supply	26、防尘、防湿处理 Dustproof, damp-proof dispose

四、选择功能表 Optional functional form:

1、BCD 码显示 BCD display	8、超载功能 Over load function
2、7 段码显示 7 segment display	9、抱闸预张 Brake stressing
3、自动开关门 Automatic open/closing	10、无呼梯自动关断付电源 Second automatic switch off second power supply
4、电磁阀联锁 solenoid valve interlock	11、运行计时功能 Run time keeping function
5、后开关门功能 Real open/closing function	12、运行计次功能 Run metering function
6、日立式开门机 Hitachi style door operator	13、任意层选择自动开门 Random floor selection automatic opening
7、三菱开门机 Mitsubishi door operator	

五、YPU 指示灯功能定义

Definition of YPU indicator function

序号 NO.	指示灯 Indicator	意义 Meaning		动 作 performance
1	POWER	电源指示 Power supply indication	红色 red	电源正常时亮 Shine when the power supply is normal
2	RUN	运行灯 running lamp	绿色 green	主板工作正常时亮 Shine when it is normal
3	ERROR	故障灯 trouble light	黄色 yellow	检测到故障时亮 Shine when trouble is inspected
4	SETUP	编程灯 Programming light	浅绿色 Light green	进入编程时亮 Shine when start programming
5	X0-X26	输入口指示 Input port indication	红色 red	有输入时该端口灯亮 Shine when input this port
6	Y0-Y27	输出口指示 Output port indication	红色 red	有输出时该端口灯亮 Shine when output this port

六、YPU 输入端子功能定义 Definition of YPU output terminal function:

序号 No.	I/O	功 能 Function	动 作 Performance	
1	GND	0V 输出		

2	X0	1 楼平层感应器 Floor 1 leveling sensor	ON 时显示 1 楼 Display floor 1 when it is on	
3	X1	2 楼平层感应器 Floor 2 leveling sensor	ON 时显示 2 楼 Display floor 2 when it is on	
4	X2	3 楼平层感应器 Floor 3 le	ON 时显示 3 楼 Display floor 3 when it is on	
5	X3	4 楼平层感应器 Floor 4leveling sensor	ON 时显示 4 楼 Display floor 4 when it is on	
6	X4	5 楼平层感应器 Floor 5 leveling sensor	ON 时显示 5 楼 Display floor 5 when it is on	
7	X5	6 楼平层感应器 Floor 6 leveling sensor	ON 时显示 6 楼 Display floor 6 when it is on	
8	X6	7 楼平层感应器 Floor 7 leveling sensor	ON 时显示 7 楼 Display floor 7 when it is on	
9	X7	8 楼平层感应器 Floor 8 leveling sensor	ON 时显示 8 楼 Display floor 8 when it is on	
10	X8	1 层呼梯按钮 Call push button for floor 1		
11	X9	2 层呼梯按钮 Call push button for floor 2		
12	X10	3 层呼梯按钮 Call push button for floor 3		
13	X11	4 层呼梯按钮 Call push button for floor 4		
14	X12	5 层呼梯按钮 Call push button for floor 5		
15	X13	6 层呼梯按钮 Call push button for floor 6		
16	X14	7 层呼梯按钮 Call push button for floor 7		
17	X15	8 层呼梯按钮 Call push button for floor 8		
18	X16	呼梯按钮 Call push button		
19	X17	运行反馈 Run feedback	运行时 OFF、停止 ON Off when it is running, on when it is stop	
20	X18	检修开关 Inspection switch	断开时检修、ON 时自动 Inspect when it is off, automatic when it is on	
21	X19	检修上行 Inspection up run	X18-ON 时，按下点动上行 When X18 is on, up run by pushing up inching	

22	X20	检修下行 Inspection down run	X18-ON 时，按下点动下行 When X18 is off, down run by pushing down inching	
23	X21	开门按钮 Opening push button	平层时按下开门 Push it when it is leveling	
24	X22	关门按钮 Closing push button	平层时按下关门 Push it when it is leveling	
25	X23	开门检测 Opening inspection	开门时 ON，等待 3 秒 On when the door is opening, wait 3 seconds	
26	X24	安全回路 Safety loop	ON-安全回路导通 On when the safety loop turns on	
27	X25	门锁回路 Door lock loop	ON-门锁回路导通 On when the door lock loop turns on	
28	X26	超载开关输入 Overload switch input	ON-则判定为超载 Determine the lift is overload when it is on	

七、输出端子功能定义 Output terminal function definition:

序号 No.	I/O	定 义 Definition	动 作 Performance
1	24V	输入电源正极 Input power supply anode	提供整机电源 Supply complete machine power supply
2	GND	输入电源负极 Input power supply anode	电源负极 Power supply cathode
3	Y0	显示 A Display A	7 段码 A=a ， 10 进制 A=1，BCD 码 A=A 7 segment code A=a, decimal A=1, BCD code A=A
4	Y1	显示 B Display B	7 段码 A=b ， 10 进制 A=2，BCD 码 A=B 7 segment code A=b, decimal A=2, BCD code A=B
5	Y2	显示 C Display C	7 段码 A=c ， 10 进制 A=3，BCD 码 A=C 7 segment code A=c, decimal A=3, BCD code A=C
6	Y3	显示 D Display D	7 段码 A=d ， 10 进制 A=4，BCD 码 A=D 7 segment code A=d, decimal A=4, BCD code A=D
7	Y4	显示 E Display E	7 段码 A=e， 10 进制 A=5 7 segment code A=e, decimal A=5
8	Y5	显示 F Display F	7 段码 A=f， 10 进制 A=6 7 segment code A=f, decimal A=6
9	Y6	显示 G Display G	7 段码 A=g， 10 进制 A=7 7 segment code A=g, decimal A=7
10	Y7	故障指示 Trouble indication	有故障时亮起 Shine when trouble happens
11	Y8	1 层按钮灯 Floor 1 push button light	

12	Y9	2 层按钮灯 Floor 2 push button light	
13	Y10	3 层按钮灯 Floor 3 push button light	
14	Y11	4 层按钮灯 Floor 4 push button light	
15	Y12	5 层按钮灯 Floor 5 push button light	
16	Y13	6 层按钮灯 Floor 6 push button light	
17	Y14	7 层按钮灯 Floor 7 push button light	
18	Y15	8 层按钮灯 Floor 8 push button light	
19	COM0	数码管及按钮灯电源公共端 common port of numeral tube and push button light power supply	
20	Y16	主电源接触器 Main power supply contactor	
21	Y17	付电源接触器 Secondary power supply contactor	选择功能 Optional function
22	Y18	上行接触器 Up run contactor	
23	Y19	下行接触器 Down run contactor	
24	Y20	开门接触器 Opening contactor	
25	Y21	关门接触器 Closing contactor	
26	Y22	后开门接触器 Rear opening contactor	
27	Y23	后关门接触器 Rear closing contactor	
28	COM1	开关门接触器电源公共电源端 Opening/closing contactor power supply common port	
29	Y24	输出到电铃 Output to the electric bell	
30	COM2	电铃电源公共电源端 Electric power supply power supply common port	
31	Y25	输出到抱闸 Output to brake	
32	COM3	抱闸公共电源端 Brake power supply common port	

33	Y26	输出到电磁阀/检修灯 Output to solenoid valve/inspection light	
34	COM4	电磁阀公共电源端 Solenoid valve power supply common port	
35	Y27	超载蜂鸣器 Overload buzzer	
36	COM5	超载蜂鸣器电源端 Overload buzzer power supply	

八、功能说明 **Function Declaration:**

- 1、 **关门待机 Closing stand-by:** 保证安全回路导通灯 X24 亮，关好各层厅门 X25 亮，按下“电铃”按钮大于 0.5 秒，嵌下欲往楼层登记按钮，该层按钮灯亮起，启动前响铃 2 秒提醒电梯（可以通过编程器开通或关闭）即将运行后，电梯自动运行至该楼层平层位置时，电梯自动停车并连续响铃通知工作人员卸货，同时按钮灯熄灭。等候下一次运行。

Ensure turning on the safety loop turn on light X24, close door of every floor/landing, the X25 light turns on, push the “electric bell” push button 0.5 second or more, push the push button of the floor you want to go, the bell ring 2 seconds before it startup to remind that elevator will start running (this function can be cutover or close by programmer),after the elevator run automatically to the leveling position of this floor. The elevator will stop automatically and continuously inform the workers to discharge the goods. At the same time, the push button light will turn off, waiting for the running next time.

- 2、 **开门待机:** 当电梯停层开门卸货时，门锁回路未闭合，如有其它层要求呼梯，则该层的按钮灯会闪烁，表示该层要求用梯。连续 5 分钟门锁仍未导通，则数码显示会按 1 秒的频率闪烁。

Opening stand by: When the elevator park and open to discharge the goods, the door lock loop doesn't close, if there is any call from other floors, the push button light of this floor will shine, showing this floor need to use the elevator. If the door lock doesn't turn on 5 minutes continuously, the digital display will glitter at the frequency of 1 second.

- 3、 **呼梯防捣乱功能：**当用户需要使用电梯，按下“电铃”按钮，则总电源 MC1 吸合，如 3 秒钟内无输入楼层信号，则电脑判断为呼梯捣乱，自动切断总电源，需要运行则必须从新来过。

Call anti-nuisance function: By pushing the “electric bell ” push button, general power MC1 picks up, if no inputting floor signal in 3 seconds, the computer will determine it as the call nuisance and cut off the general power automatically, customers need to operate the same procedures if they want to run the elevator.

- 4、 **停层断开动力电源：**为防止上下接触器粘死，电梯停车或静止状态下，自动切断 MC1 主电源。

Land parking cut off power supply: to avoid the up/down contactor glue together, the MC1 general power supply will cut off automatically when the elevator is parking or resting..

- 5、 **楼层呼梯指示：**当电梯停于某层开门卸货，如某层有呼梯信号则该层的按钮灯进行闪烁，提示使用人尽快关门以便他人使用。

Floor call indication: when the elevator stop at some floor to discharge goods, the push button light of one floor will glitter if there is call signal, reminding the users to close

the door as soon so possible so that others can use the elevator.

九、使用注意 Notes for Use:

1、 电梯关门待机中，每次只应呼一个招呼层。

When the elevator is in the statue of closing stand by, it response to 1 call floor each time.

2、 招呼的顺序是：关门----招呼-----楼层！

The order of calling is: Closing----Calling----Floor

3、 连续三分钟无招呼，关断相序继电器、综合保护器电源、以确保电气寿命，此时轻触任何招呼按钮则电梯自动恢复运行。(选择)

If no calling in 3 minutes continuously, cut off phase relay, integrative protector power supply to ensure the service life of electric.

运行中，如发现数码管的小数点 DP 亮起，表示有故障，请通知维修人员进行维修。

In the operation, if the decimal DP of the numeral tube shine, it means there are troubles happening, you should inform the maintenance workers to maintain.

十、故障代码表 Fault code form:

序号 No.	高 2 位显示 High 2 bit display	功 能 Function	低 2 位显示 Low 2 bit display	
1	编码 code		有故障 trouble	无故障 no trouble
2	0.0.	安全回路 Safety loop	E E	P P
3	0.1.	门锁回路 Door lock loop	E E	P P
4	0.2.	开门接触器常开触点 Opening contactor normal open contact	E E	P P
5	0.3.	反馈信号常闭	E E	P P

		Feedback signal normal close		
6	0.4.	反馈信号常开 Feedback signal normal open	E E	P P
7	0.5.	单层运行超时 Single floor running overtime	E E	P P
8	0.6.	平层感应器常闭 Leveling sensor normal close	E E	P P
9	0.7.	总程运行超时 Total distance running overtime	E E	P P
10	0.8.	溜车 car rolling	E E	P P
11	0.9.	运行方向 Running direction	E E	P P
12	1.0.	超载 Overload	E E	P P
13	1.1. -- 9.9.	暂时无定义 No definition temporarily	H H	H H
14	其他代码 Other code	错码 Error code	L L	L L

十一、元件代号说明 Notes for component code

1JD-NJD	按钮灯 Push button light		井道 hoistway
1JT-NJT	按钮盒急停开关 Push button box stop switch		厅外 hall
1PL-8PL	1- 8 层平层感应器 1-8 floor leveling sensor	YG-3	轿厢 car
40G	门锁回路继电器 Door lock loop relay	MY4/DC24V	控制柜 Control cabinet
50G	安全回路继电器 Safety loop relay	MY4/DC24V	控制柜 Control cabinet
A1-A8	1- 8 层指令按钮 1-8 floor instruction push button		
CB1-CB6	断路器 circuit breaker	C3	控制柜 Control cabinet

ICTC	轿顶检修开关 Car top inspection switch		
ICTA	机房检修开关 Machine room inspection switch		
SSU	点动向上按钮 Inching up button		
SSD	点动向下按钮 Inching down button		
CK1	轿顶 220V 插座 Car top 220V socket		
CK2	底坑 220V 插座 Pit 220V socket		
CZK	超载开关 Overload switch		
D	曳引电动机 Traction machine motor		机房 Machine room
DM	门电动机 Door motor		
D1	续流二极管 After production LED	IN4007	机房 Machine room
D2	续流二极管 After production LED	IN4007	机房 Machine room
DK1	轿顶照明开关 Car top lighting switch		
DK2`	底坑照明开关 Pit lighting switch		
DL	下限位开关 Down limit switch		井道 hoistway
DLL	电铃 Electric bell	220V	轿厢 car
DOT	下极限开关 Down limit switch		井道 hoistway
DS1- DSN	厅门锁开关 Hall door lock switch		井道 hoistway
DSD	下减速开关 Down deceleration switch		井道 hoistway
DZZ	抱闸线圈 Brake coil		机房 Machine room
FL	呼梯按钮 Calling push button		
GOV	限速器开关 Speed governor switch		井道 hoistway

GOV-T	限速器断绳开关 Speed governor broken step switch		井道 hoistway
GS	轿门锁开关 Car door lock switch		轿厢 car
ICT	检修开关 Inspection switch	XB32	控制柜 Control cabinet
CZL	超载蜂鸣器 Overload buzzer		
OP	开门按钮 Opening push button		
CL	关门按钮 Closing push button		
KM	开门接触器 Opening contactor		
GM	关门接触器 Closing contactor		
OPL	开门限位 Opening limit		
OPL1	后开门限位 Rear opening limit		
CLL1	后关门限位 Rear closing limit		
MG	抱闸接触器 Brake contactor		
KM1	后开门接触器 Rear opening contactor		
GM1	后关门接触器 Rear closing contactor		
JXW	相序继电器 Phase relay	XJ-3	控制柜 Control cabinet
MC1	电源接触器 Power supply contactor	LC1-4011/AC220V	控制柜 Control cabinet
MC2	电源接触器 Power supply contactor	LC1-0910/220V	控制柜 Control cabinet
MCCB	断路器 Broker	D32	控制柜 Control cabinet
MS	上行接触器 Up run contactor	LC1-4011/AC220V	控制柜 Control cabinet
MX	下行接触器 Down run contactor	LC1-4011/AC220V	控制柜 Control cabinet
RJ	电动机热继电器 Motor thermal overload relay	RJ45	控制柜 Control cabinet

RZ1	抱闸分压电阻 Brake voltage division resistance	100W/100Ω	机房 Machine room
RKM、RKM1	开门分流电阻 Opening voltage division resistance		
RD、RD1	门机励磁限压电阻 Door operator excitation pressure-limiting resistance		
1GA	关门 1 级减速电阻 Closing grade 1 deceleration resistance		
RMD、RMD1	门机总速电阻 Door operator general speed resistance		
2GA、2GA1	关门 2 级减速电阻 Closing level 2 deceleration resistance		
1KA、1KA1	开门减速电阻 Opening deceleration resistance		
RGM、RGM1	关门分流电阻 Closing shunt resistance		
RZ2	抱闸分流电阻 Brake shunt resistance	100W/1KΩ	机房 Machine room
SAF	安全钳开关 safety gear switch		轿厢 Car
SIO	基站锁开关 Floor landing lock switch		厅外 hall
TA-TF	端子排 Terminal row	TB-1512 TB-4504	控制柜 Control cabinet
TR-1	控制变压器 control transformer	BY-300VA	控制柜 Control cabinet
UL	上限位开关 Up limit switch		井道 hoistway
UOT	上极限开关 Up limit switch		井道 hoistway
USD	上减速开关 Up deceleration switch		井道 hoistway
YDY	开关电源 Switch power supply	DC24V	控制柜 Control cabinet
YPU	微机控制器 Microcomputer controller	CAHT-YPU	控制柜 Control cabinet
RM1-RM12	组容吸收装置 Unit capacity inlet device		控制柜 Control cabinet

十二、控制柜端子接线图 Control cabinet terminal wiring diagram:

TA			TB			TC		
编号 No.	功能 Function	意义 Meaning	编号 No.	功能 Function	意义 Meaning	编号 No.	功 能 Function	
1	FL	呼 梯 Callin g	1	1JD	按钮 灯 Push button light	1	VCC	+24V
2	1PL	平层感 应器 Leveli ng sensor	2	2JD		2	GND	0V
3	2PL		3	3JD		3		
4	3PL		4	4JD		4	R1	锁梯 Lock
5	4PL		5	5JD		5	SIO	elevator
6	5PL		6	6JD		6		
7	6PL		7	7JD		7	UL	上 限 位 up limit
8	7PL	呼梯按 钮 Callin g push butto n	8	8JD	运行灯 Run light	8	DL	下 限 位 down limit
9	8PL		9	YXD		9	B221	限 位 公 线 limit common wire
10	A1		10	MSD	门锁灯 Door lock light	10	OPL	开 门 限 位 opening limit
11	A2		11	A	显 示 灯 Displa y light	11	OPL1	前 开 限 front opening limit
12	A3		12	B		12	CLL	关 限 closing limit
13	A4		13	C		13	CLL1	后 关 限 rear closing limit
14	A5		14	D		14	DCF	电磁阀 Solenoid valve

15	A6		15	E		15	DLL	电 铃 electric bell
16	A7		16	F		16	CZL	超 载 铃 overload bell
17	A8		17	G		17	B220	220 公线 220 common wire
18	ICTC	检修 inspec tion	18	DP	小数点 decimal point	18	MG1	抱闸 1 Brake 1
19	SSU	慢上 Slowly up	19	UP	上方向 Up directio n	19	EATRH	地线 Ground wire
20	SSD	慢下	20	DN	下方向 Down directio n	20	MG2	抱闸 1 Brake 1
21		Slowly down	21	13	前门机 Front door operato r	21	110	+110V
22	OP	开 门 openi ng	22	14		22	111	0V
23	CL	关 门 closin g	23	15		23	36A	36V
24	CZK	超 载 overlo ad	24	16		24	36B	36V
25	SA3	安全 回路	25	17	后门机 Rear door operato r	25	37	36V Light
26	SA2	Safety loop	26	131		26	22	灯控制
27	SA1		27	141		27	21	照 明 回 路
28	120	轿 门 car door	28	151		28	N/20	lighting loop
29	121	厅 门 hall door	29	161		29	EATRH	照 明 电 源
30	122		30	171		30	L	Lighting power supply

T K					T L			
U	V	W			L1	L2	L3	N
电动机 motor					电源线 electric power line			

十三、配线示意表 wiring harness diagram:

1、 井道 Hoistway:

编号 No.	名称 Name	功能 Function	线 径 wire size	去 向 installation position	备注 Remarks
1	A1	A1 按钮 A1 push button	0.75mm ²	每层配备 Equipped on each floor	必配 Necessary equipped
2	A2	A2 按钮 A2 push button	0.75mm ²	每层配备 Equipped on each floor	必配 Necessary equipped
3	A3	A3 按钮 A3 push button	0.75mm ²	每层配备 Equipped on each floor	根据楼层选配 Equipped optionally according to the floor
4	A4	A4 按钮 A4 push button	0.75mm ²	每层配备 Equipped on each floor	根据楼层选配 Equipped optionally according to the floor
5	A5	A5 按钮 A5 push button	0.75mm ²	每层配备 Equipped on each floor	根据楼层选配 Equipped

				floor	optionally according to the floor
6	A6	A6 按钮 A6 push button	0.75mm ²	每层配备 Equipped on each floor	根据楼层选配 Equipped optionally according to the floor
7	A7	A7 按钮 A7 push button	0.75mm ²	每层配备 Equipped on each floor	根据楼层选配 Equipped optionally according to the floor
8	A8	A8 按钮 A8 push button	0.75mm ²	每层配备 Equipped on each floor	根据楼层选配 Equipped optionally according to the floor
9	1JD	1JD 按钮灯 1JD push button light	0.75mm ²	选择配备 Equipped optionally	必 配 Necessary equipped
10	2JD	2JD 按钮灯 2JD push button light	0.75mm ²	选择配备 Equipped optionally	必 配 Necessary equipped
11	3JD	3JD 按钮灯 3JD push button light	0.75mm ²	选择配备 Equipped optionally	根据楼层选配 Equipped optionally according to the floor
12	4JD	4JD 按钮灯 4JD push button light	0.75mm ²	选择配备 Equipped optionally	根据楼层选配 Equipped optionally according to the floor
13	5JD	5JD 按钮灯 5JD push button light	0.75mm ²	选择配备 Equipped optionally	根据楼层选配 Equipped optionally according to the floor
14	6JD	6JD 按钮灯 6JD push button light	0.75mm ²	选择配备 Equipped optionally	根据楼层选配 Equipped optionally according to the floor
15	7JD	7D 按钮灯	0.75mm ²	选择配备	根据楼层选配

		7JD push button light		Equipped optionally	Equipped optionally according to the floor
16	8JD	8D 按钮灯 8JD push button light	0.75mm ²	选择配备 Equipped optionally	根据楼层选配 Equipped optionally according to the floor
17	YXD	允许使用灯 Permissible light	0.75mm ²	选择配备 Equipped optionally	选配 Equipped optionally
18	MSD	门锁断开灯 Door lock broken light	0.75mm ²	选择配备 Equipped optionally	选配 Equipped optionally
19	A	A	0.75mm ²	每层配备 Equipped on each floor	必配 Necessary equipped
20	B	B	0.75mm ²	每层配备 Equipped on each floor	必配 Necessary equipped
21	C	C	0.75mm ²	每层配备 Equipped on each floor	必配 Necessary equipped
22	D		0.75mm ²	选择配备 Equipped optionally	根据楼层选配 Equipped optionally according to the floor
23	E		0.75mm ²	选择配备 Equipped optionally	根据楼层选配 Equipped optionally according to the floor
24	F		0.75mm ²	选择配备 Equipped optionally	根据楼层选配 Equipped optionally according to the floor
25	G		0.75mm ²	选择配备 Equipped optionally	根据楼层选配 Equipped optionally according to the floor
26	DP		0.75mm ²	每层配备 Equipped on each floor	必配 Necessary equipped

27	UP	上行方向 Up run direction	0.75mm ²	每层配备 Equipped on each floor	必配 Necessary equipped
28	DN	下行方向 Down run direction	0.75mm ²	每层配备 Equipped on each floor	必配 Necessary equipped
29	VCC	+24V	0.75mm ²	每层配备 Equipped on each floor	必配 Necessary equipped
30	GND	0V	0.75mm ²	每层配备 Equipped on each floor	必配 Necessary equipped
31	SA4	安全回路 1 Safety loop 1	0.75mm ²	每层串接 connect in serial on each floor	必配 Necessary equipped
32	SA2	安全回路 2 Safety loop 2	0.75mm ²	每层串接 connect in serial on each floor	必配 Necessary equipped
33	121	厅门 1 Hall door 1	0.75mm ²	每层串接 connect in serial on each floor	必配 Necessary equipped
34	122	厅门 2 Hall door 2	0.75mm ²	每层串接 connect in serial on each floor	必配 Necessary equipped
35	UL	上限位 Up limit	0.75mm ²	顶层 Top floor	必配 Necessary equipped
36	DL	下限位 Down limit	0.75mm ²	底层 Ground floor	必配 Necessary equipped
37	B221	上\下限位公共线 Up\Down limit common wire	0.75mm ²	顶、底层 Top and ground floor	必配 Necessary equipped
38	R1	基站锁梯 Ground floor elevator lock	0.75mm ²	底层 Ground floor	必配 Necessary equipped
39	SIO		0.75mm ²	底层 Ground floor	必配 Necessary equipped
40	FL	招呼电铃 Calling electric bell	0.75mm ²	每层配备 Equipped on each floor	必配 Necessary equipped
41	1PL	1 平层感应器 1 leveling sensor	0.75mm ²	1 层配备 Equipped on floor 1	根据楼层选配 Equipped optionally

					according to the floor
42	2PL	2 平层感应器 2 leveling sensor	0.75mm ²	2 层配备 Equipped on floor 2	根据楼层选配 Equipped optionally according to the floor
43	3PL	3 平层感应器 3 leveling sensor	0.75mm ²	3 层配备 Equipped on floor 3	根据楼层选配 Equipped optionally according to the floor
44	4PL	4 平层感应器 4 leveling sensor	0.75mm ²	4 层配备 Equipped on floor 4	根据楼层选配 Equipped optionally according to the floor
45	5PL	5 平层感应器 5 leveling sensor	0.75mm ²	5 层配备 Equipped on floor 5	根据楼层选配 Equipped optionally according to the floor
46	6PL	6 平层感应器 6 leveling sensor	0.75mm ²	6 层配备 Equipped on floor 6	根据楼层选配 Equipped optionally according to the floor
47	7PL	7 平层感应器 7 leveling sensor	0.75mm ²	7 层配备 Equipped on floor 7	根据楼层选配 Equipped optionally according to the floor
48	8PL	8 平层感应器 8 leveling sensor	0.75mm ²	8 层配备 Equipped on floor 8	根据楼层选配 Equipped optionally according to the floor
49	A36	36V 电源 36V power supply	0.75mm ²	底坑 pit	选配 Equipped optionally
50	B36		0.75mm ²	底坑 pit	选配 Equipped optionally
51	OP	开门按钮 Opening push button	0.75mm ²	串接该层感应器 Connect the sensor of this floor in serial	

52	CL	关门按 Closing push button	0.75mm ²	串接该层感应器 Connect the sensor of this floor in serial	
53			0.75mm ²		
54					
55	EARTH	接地线 ground connection		每层配备 Equipped on each floor	

2、轿厢部分 Car :

编号 No.	名 称 Name	功 能 Function	线 径 Wire size	去向 Installation position	备注 remarks
1	120	轿门锁 1 Car door lock 1	0.75mm ²	轿顶 Traction machine	必 配 Necessary equipped
2	121	轿门锁 2 Car door lock 2	0.75mm ²	轿顶 Traction machine	必 配 Necessary equipped
3	SA2	安全回路 1 Safety loop 1	0.75mm ²	轿顶 Traction machine	必 配 Necessary equipped
4	SA1	安全回路 2 Safety loop 2	0.75mm ²	轿顶 Traction machine	必 配 Necessary equipped
5	B220		0.75mm ²	轿顶 Traction machine	必 配 Necessary equipped
6	20	N	0.75mm ²	轿顶 Traction machine	必 配 Necessary equipped
7	21	L 照明电源 L lighting power supply	0.75mm ²	轿顶 Traction machine	选 配 Equipped optionally
8	22	轿厢照明 Car lighting	0.75mm ²	轿顶 Traction machine	选 配 Equipped optionally
9	DLL	电铃 Electric bell	0.75mm ²	轿顶 Traction machine	选 配 Equipped optionally
10	ASU	慢上 Slow up	0.75mm ²	轿顶 Traction machine	选 配 Equipped optionally
11	ASD	慢下 Slow down	0.75mm ²	轿顶 Traction machine	选 配 Equipped optionally

12	CZK	超载开关 Overload switch	0.75mm ²	轿顶 Traction machine	选 配 Equipped optionally
13	13	前门门机 Front door operator	0.75mm ²	轿顶 Traction machine	选 配 Equipped optionally
14	14		0.75mm ²	轿顶 Traction machine	选 配 Equipped optionally
15	15		0.75mm ²	轿顶 Traction machine	选 配 Equipped optionally
18	OPL	开门限位 Opening limit	0.75mm ²	轿顶 Traction machine	选 配 Equipped optionally
19	CLL	关门限位 Closing limit	0.75mm ²	轿顶 Traction machine	选 配 Equipped optionally
20	131	后门门机 Rear operator	0.75mm ²	轿顶 Traction machine	选 配 Equipped optionally
21	141		0.75mm ²	轿顶 Traction machine	选 配 Equipped optionally
22	151		0.75mm ²	轿顶 Traction machine	选 配 Equipped optionally
23	OPL1	后门开门限位 Rear opening limit	0.75mm ²	轿顶 Traction machine	选 配 Equipped optionally
24	CLL1	后门关门限位 Rear closing limit	0.75mm ²	轿顶 Traction machine	选 配 Equipped optionally
25	ICTC	检修 Inspection	0.75mm ²	轿顶 Traction machine	选 配 Equipped optionally
26	A36	36V 电源 36V power supply	0.75mm ²	轿顶 Traction machine	选 配 Equipped optionally
27	B36		0.75mm ²	轿顶 Traction machine	选 配 Equipped optionally
28	EARTH	接地线 Ground connection		轿顶 Traction machine	必 配 Necessary equipped

3、曳引电动机：

编号 No.	名称 Name	功 能 Function	线 径 Wire size	去 向 Installation position	备注 remarks
1	U	电动机 Motor	10mm ²	曳引机 Traction machine	必 配 Necessary equipped
2	V	电动机 Motor	10mm ²	曳引机 Traction machine	必 配 Necessary equipped
3	W	电动机 Motor	10mm ²	曳引机 Traction machine	必 配 Necessary equipped
4	G	电动机接地线 Motor ground connection	10mm ²	曳引机 Traction machine	必 配 Necessary equipped

4、机房部分：

编号 No.	名称 Name	功 能 Function	线 径 Wire size	去 向 Installation position	备注 Remarks
1	MG1	抱闸线圈 Brake coil	1.5mm ²	曳引机 Traction machine	必配 Necessary equipped
2	MG2	抱闸线圈 Brake coil	1.5mm ²	曳引机 Traction machine	必配 Necessary equipped
3	SA5	限速器 Speed governor	0.75mm ²		必配 Necessary equipped
4	SA4	限速器 Speed governor	0.75mm ²		必配 Necessary equipped
5	EARTH		2.5mm ²		必配 Necessary equipped

十四、调试说明

Notes for debugging

1、 绝缘测试 insulation test:

A、 本控制柜出厂时已经柜体绝缘测试，所以无须进行柜体测试。

This control cabinet has take cabinet insulation test when it is released, so you don't need to retest the cabinet .

B、安装现场必须保证电动机绝缘性能。

On the installation site ,the insulation quality should be ensured.

B、 用万用表 10K 挡测量 TA 、TB、TC 端子对地绝缘正常时应大于 50K 以上。

When using volt-ohm meter 10 K to measure terminal TA、TB、TC, ground insulation is normal only when it is more than 50K.

C、 用兆欧表测量 TD 端子对地绝缘，正常应大于 0.3 兆欧。

When using mega ohmmeter to measure terminal TD, ground insulation is normal only when it is more than 0.3 mega ohm .

D、 绝缘测试时必须卸掉 YPU 控制板的端子排和接地线。

Before taking insulation test, the terminal row and ground connection of YPU control board should be discharged.

2、 每层一个隔磁板长度应为 80mm，平层感应器安装时于电梯平层时应距隔磁板两端各 30MM。

The length of magnet vane on every layer should be 88mm, leveling sensor should be 30MM respectively to the magnet vane when it is installed.

3、 上限位开关：保证电梯在顶层平层时向上 30MM 能够动作。

Up limit switch: Ensure the elevator can take motion when leveling up 30MM on the top floor.

下限位开关：保证电梯在底层平层时向下 30MM 能够动作。

Down limit switch: Ensure the elevator can take motion when leveling down 30MM on the ground floor.

4、 上极限开关：保证电梯在顶层平层时向上 200MM 能够动作。

Up limit switch: Ensure the elevator can take motion when leveling up 200MM on the ground floor.

下极限开关：保证电梯在底层平层时向下 200MM 能够动作。

Down limit switch: Ensure the elevator can take motion when leveling down 200MM on the ground floor.

5、电压测试 Voltage test:

名称 Name	电压 Voltage		实 测 actual measurement
R、S、T	AC380V±7%	三相电源 Phase 3 power supply	
VCC	DC24V±7%	信号驱动电源	
GND		Signal drive power supply	
VDD	DC24V±0.5V	微机工作电源 Microcomputer Operational Power Supply	
A220	AC220V	控制回路电源	
B200		Control loop power supply	

6、检修操作：打检修状态，点动上下运行，观察运行方向是否正常，如果与实际方向相反则调整电源进线任意两相之相序即可。

Inspection operation: Turn on to inspection mode, inching up and down run, notice is the run direction is normal, if the direction is on the opposite of the actual direction , adjust random one of the phase of the two phase of the power supply incoming line.

7、电动机综合保护器的调整如下：（顺时针调整电流则检测电流增大，反时针则检测电流减小）

The adjustment of the motor integrative protector is as below: (adjust the electric current clockwise; the electric current is increasing, the electric current will decrease when the inspection is counter clockwise.

A、电梯满载运行时，调整电位器至绿灯和红灯闪烁，再顺时针调大 1/4 圈。

The elevator runs when it is full loaded, adjust the potentiometer till the green and red light is glittering, then turn up 1/4 circle.

B、调整“延时电位器”进行延时“1-8”秒，可防止电机脉冲电流。

Adjust the “delay potentiometer” to delay “1-8 seconds”, it can avoid motor pulse current.

8、 本控制制柜出厂时已经调试完毕。安装时根据原理图配好线，保证接触完好并且无误，测试无误后通电即可投入使用。

The control cabinet has been debugged when it leave the factory. When it is installation, connect the wires according to the function diagram, ensure the contact is in good position and correct, after testing and electrifying it can be put into service.

