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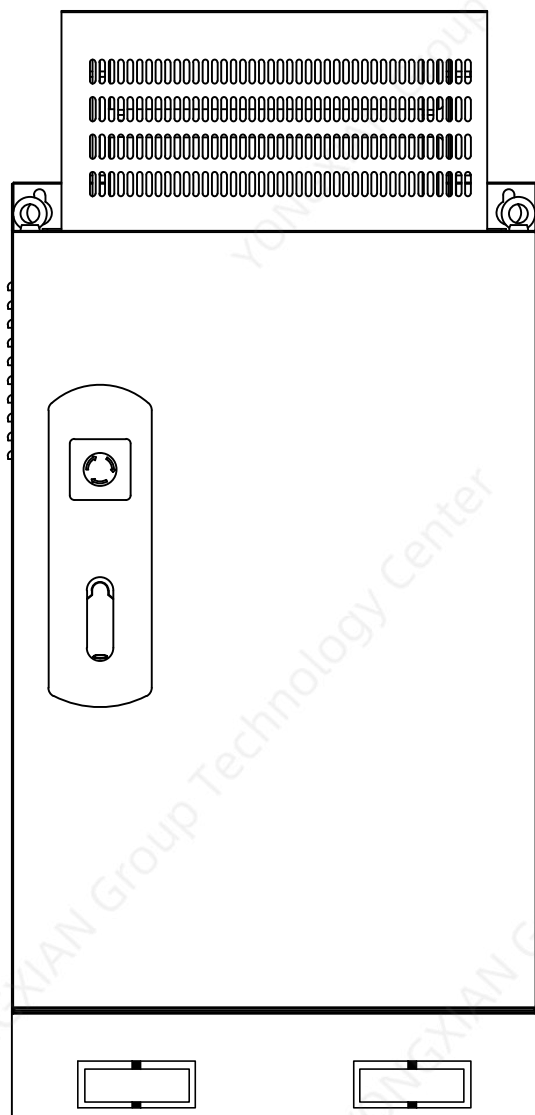
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NICE3000^{new} Elevator Modernization

Electrical Schematic Diagrams

MON-ES-YT4.6-2025-0018



Applicable to: permanent magnet synchronous
machine room and machine roomless elevators

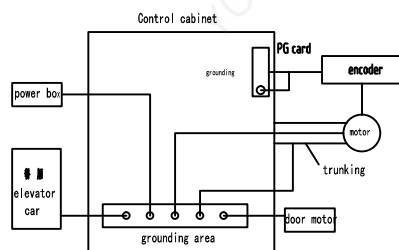
Asynchronous with machine room elevators

CONTROL CABINET INSTRUTION

Check the voltage fluctuation of power supply within the range of $\pm 7\%$. Check all connections in place before switch on. Assure the fault free, please check all items as following.

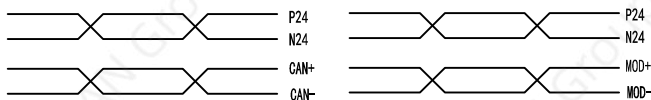
● Grounding

Check all grounding points as following fig



● communication

Put the terminating resistor in the end of the CAN bus.
 TXT+ TXT-:60ohm
 length of lay:30mm



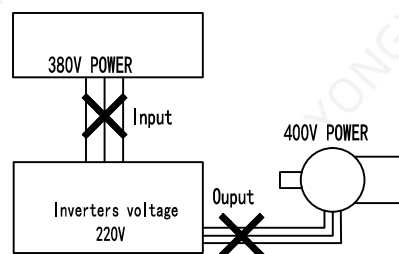
● Anti-static

Dont't touch PCB uniees ESD is discharged.

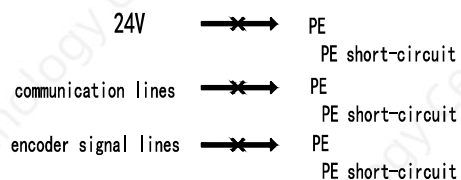
● 注意 Caution

通电前务必检查供电电源和变频器电压等级是否匹配

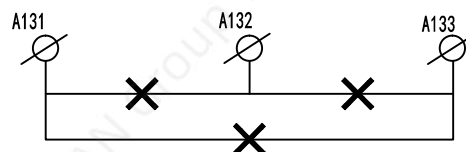
Check the voltage class matching relationship between power input and inverter.



● Short circuit to earth

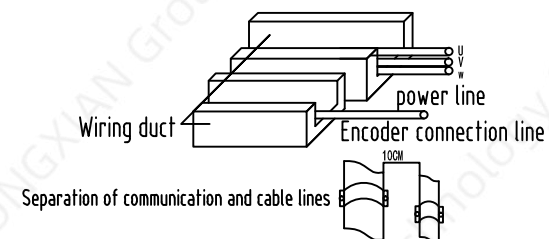


● Door lock bridging is forbidden



● Wiring

Keep distance between power and signal lines



● commissioning steps:

1. Check components. screws in place.
2. Check input voltage in place.
3. Power on
4. Check all ambient switches in place.
5. System parameter setting.
6. Trial at slow speed.
7. Trial at full speed.
8. Wire sorting.
9. End.

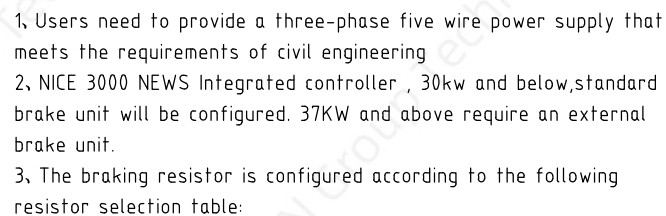
The details see random file and use manual

Content

- (1)Synchronous main circuit..... ..Q4E1A00001.0
- (2)Asynchronous main circuit..... ..Q4E1A00001.1
- (3)UPS Synchronous main circuit ..Q4E1A00001.2
- (4)Control cabinet topology diagram..... ..Q4E1A00001.3
- (5)Control power circuit..... ..Q4E1A00002
- (6)Control power circuit..... ..Q4E1A00002.1
- (7)Main board circuit diagram.....Q4E1A00003
- (8)Inspection and braking circuit diagram.....Q4E1A00004
- (9)nspection and braking circuit diagram.....Q4E1A00004.1
- (10)Safety Circuit Diagram.....Q4E1A00005
- (11)Car roof control circuit diagram...Q4E1A00006
- (12)Door motor circuit diagram.....Q4E1A00007
- (13)External Summoning Circuit Diagram.....Q4E1A00008
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- (15)Instruction board circuit diagram..... ..Q4E1A000010
- (16)Five way intercom circuit diagram.....Q4E1A00011
- (17)Asynchronous UCMP circuit diagram.....Q4E1A00012
- (18)Synchronous UCMP circuit diagram..... ..Q4E1A00012.1
- (19)Group control circuit diagram.....Q4E1A00013
- (20)Lighting circuit.....Q4E1A00014
- (21)shaft lighting.....Q4E1A00015
- (22)No machine room speed governor.....Q4E1A00016
- (23)Speed governor test and electric brake release.....Q4E1A00016.1
- (24)Rope gripper action circuit diagram.....Q4E1A00017
- (25)Control cabinet connectors.....Q4E1A00018
- (26)Control Cabinet Interface Board Diagram.....Q4E1A00018.1
- (27)Car roof maintenance box arrangement diagram.....Q4E1A00019
- (28)machine room wiring circuit diagram.....Q4E1A00020
- (29)Component code 1.....Q4E1A00021
- (30)Component code 2.....Q4E1A00022

Model	Power	Brake Resistance Specs
NICE-L-C-4005	5.5KW	1600W, 100 Ω
NICE-L-C-4007	7.5KW	2500W, 70 Ω
NICE-L-C-4011	11KW	3500W, 50 Ω
NICE-L-C-4015	15KW	4500W, 40 Ω
NICE-L-C-4018	18.5KW	5500W, 29 Ω
NICE-L-C-4022	22KW	6500W, 23 Ω
NICE-L-C-4030	30KW	9000W, 20 Ω
NICE-L-C-4037	37KW	11000W, 14.5 Ω

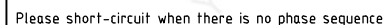
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7												
6												
5												
4									Q4E1A00001.0			
3					Design	任林	Date	2021.4.30				
2					Check	乔楠	Date	2021.5.3				
1												
Mark	Modify Content	Sign	Check	Date	Admit	倪壮	Date	2021.5.10				



Model	Power	Brake Resistor
NICE-L-C-4005	5.5KW	1600W, 90 Ω
NICE-L-C-4007	7.5KW	2500W, 65 Ω
NICE-L-C-4011	11KW	3500W, 43 Ω
NICE-L-C-4015	15KW	4500W, 32 Ω
NICE-L-C-4018	18.5KW	5500W, 25 Ω
NICE-L-C-4022	22KW	6500W, 22 Ω
NICE-L-C-4030	30KW	9000W, 20 Ω
NICE-L-C-4037	37KW	11000W, 16 Ω

8					NICE 3000 NEWS				Asynchronous Motor					
7														
6														
5														
4					Q4E1A00001.1									
3											Design	任林	Date	2021.4.30
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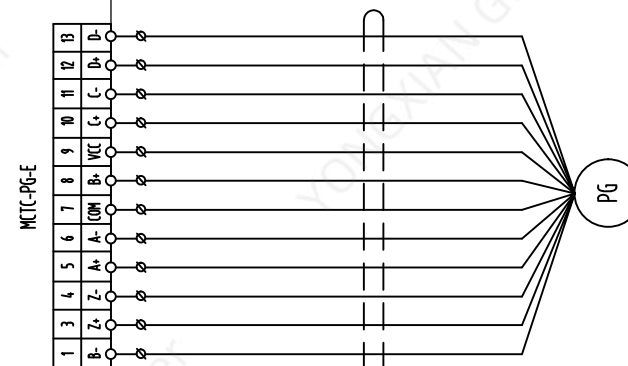
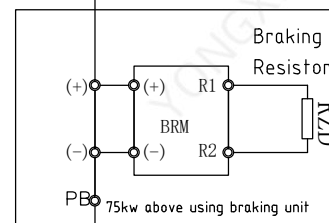
User Power
AC380V-415V



1. Users need to provide a three-phase five wire power supply that meets the requirements of civil engineering
2. NICE 3000 NEWS Integrated controller , 30kw and below,standard brake unit will be configured. 37KW and above require an external brake unit.
3. The braking resistor is configured according to the following resistor selection table:

Model	Power	Brake Resistor
NICE-L-C-4005	5.5KW	1600W, 90 Ω
NICE-L-C-4007	7.5KW	2500W, 65 Ω
NICE-L-C-4011	11KW	3500W, 43 Ω
NICE-L-C-4015	15KW	4500W, 32 Ω
NICE-L-C-4018	18.5KW	5500W, 25 Ω
NICE-L-C-4022	22KW	6500W, 22 Ω
NICE-L-C-4030	30KW	9000W, 20 Ω
NICE-L-C-4037	37KW	11000W, 16 Ω

NICE 3000 NEWS

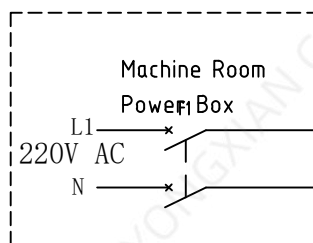
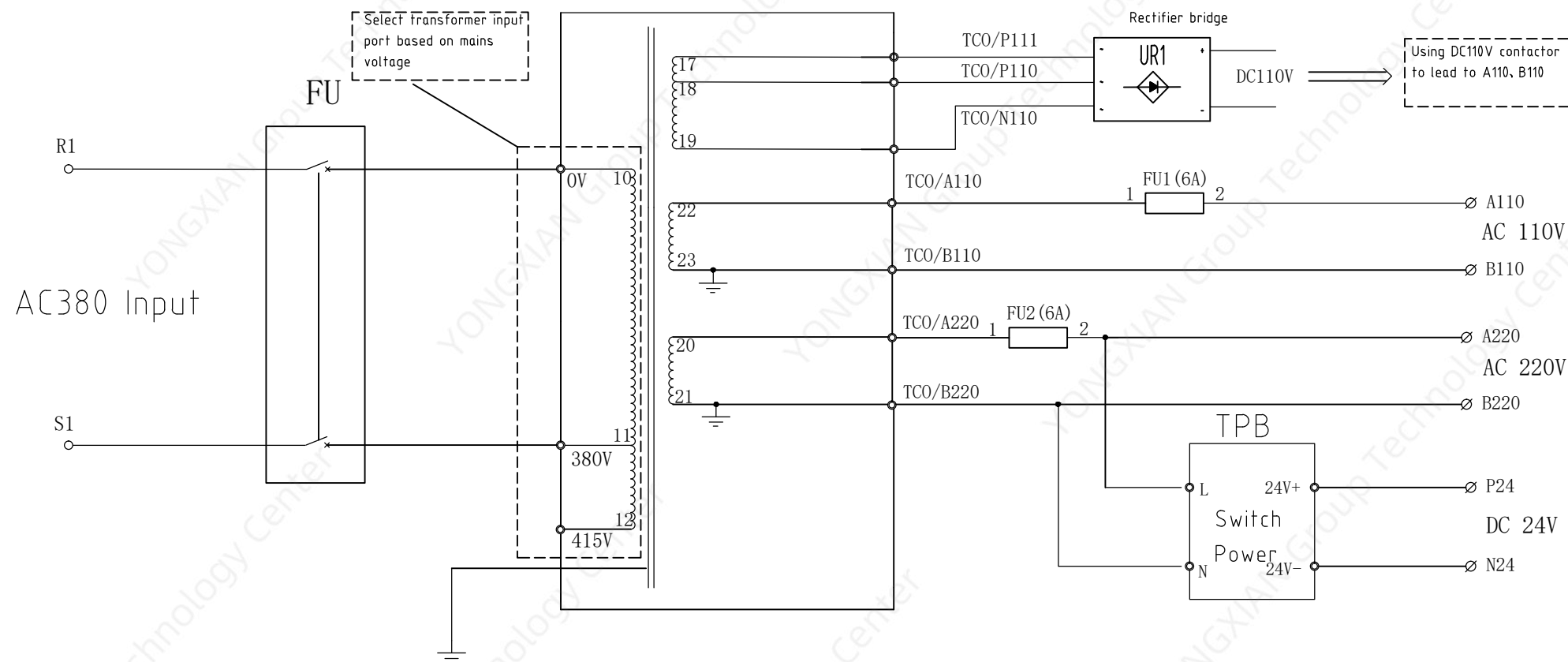


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7										
6										
5										
4									Q4E1A00001.2	
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2					Check	乔楠	Date	2021.5.3		
1										
Mark	Modify Content	Sign	Check	Date	Admit	倪壮	Date	2021.5.10		

Date	2021.5.10
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Q4E1A000002.0

TCO



Note: When without machine room, install the F1 circuit breaker into the control cabinet

8					NICE 3000 NEWS				Transformer Circuit 1
7									
6									
5									
4									
3					Design	任林	Date	2021.4.30	Q4E1A00002.0
2					Check	乔楠	Date	2021.5.3	
1					Admit	倪壮	Date	2021.5.10	
Mark	Modify Content	Sign	Check	Date					

04E1A00003

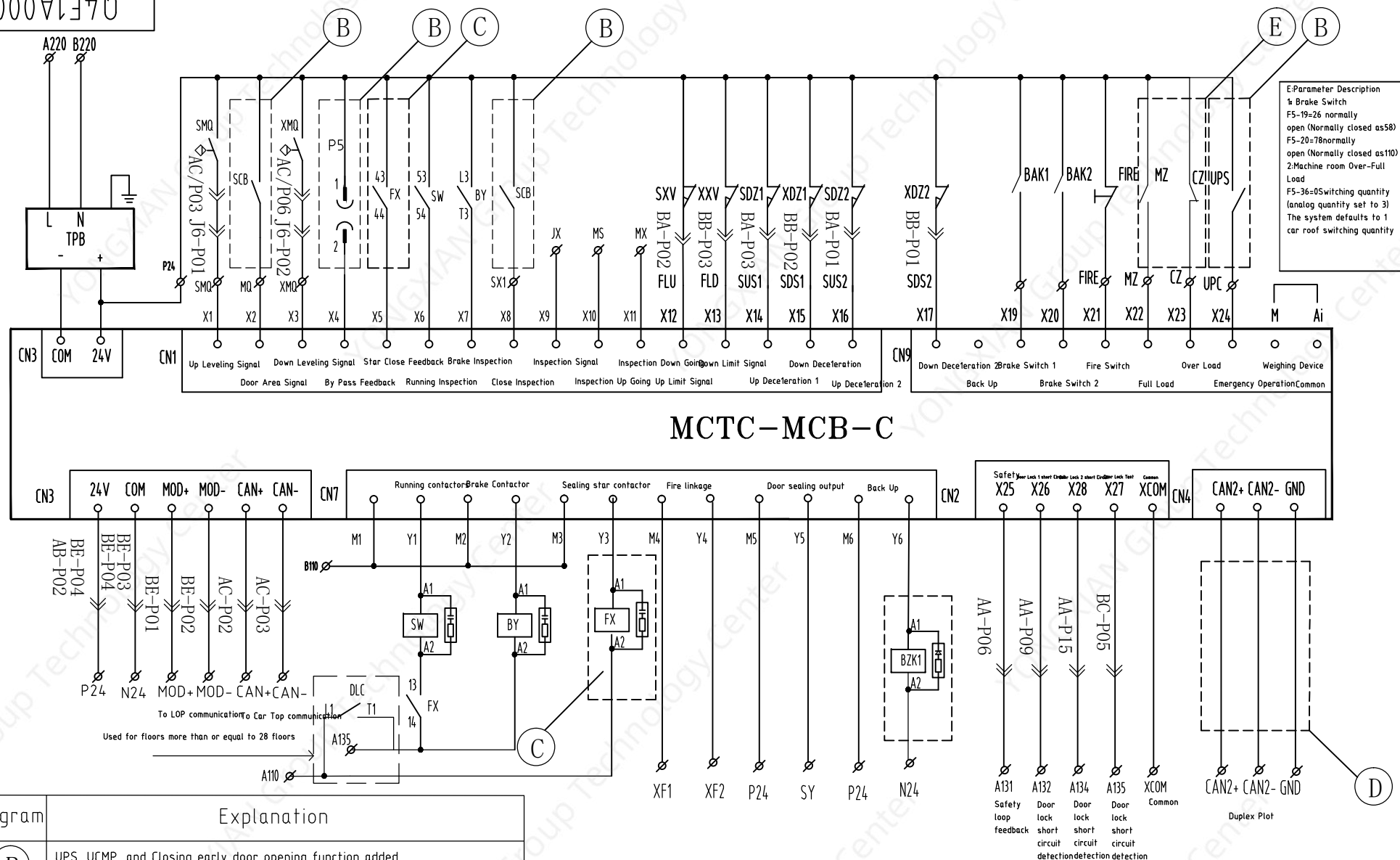
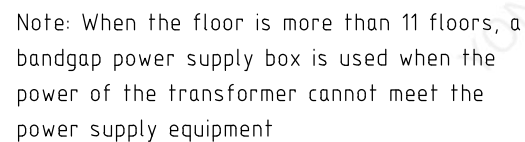


Diagram	Explanation
	UPS, UCMP, and Closing early door opening function added
	Increase during synchronization; DC110V adopts RD absorption
	Used when there is duplex connection
	Overload switch used in the motor room X22 is feedback for door locks when the floor is more than or equal to 28 floors

8					NICE 3000 NEWS				Control Circuit	
7										
6										
5										
4									Q4E1A00003	
3										
2					Design	任林	Date	2021.4.30		
1					Check	乔楠	Date	2021.5.3		
Mark	Modify Content	Sign	Check	Date	Admit	倪壮	Date	2021.5.10		



8					NICE 3000 NEWS				Inspection Circuit/Brake Circuit
7									
6									
5									
4									
3					Design	任林	Date	2021.4.30	
2					Check	乔楠	Date	2021.5.3	
1					Admit	倪壮	Date	2021.5.10	
Mark	Modify Content	Sign	Check	Date					

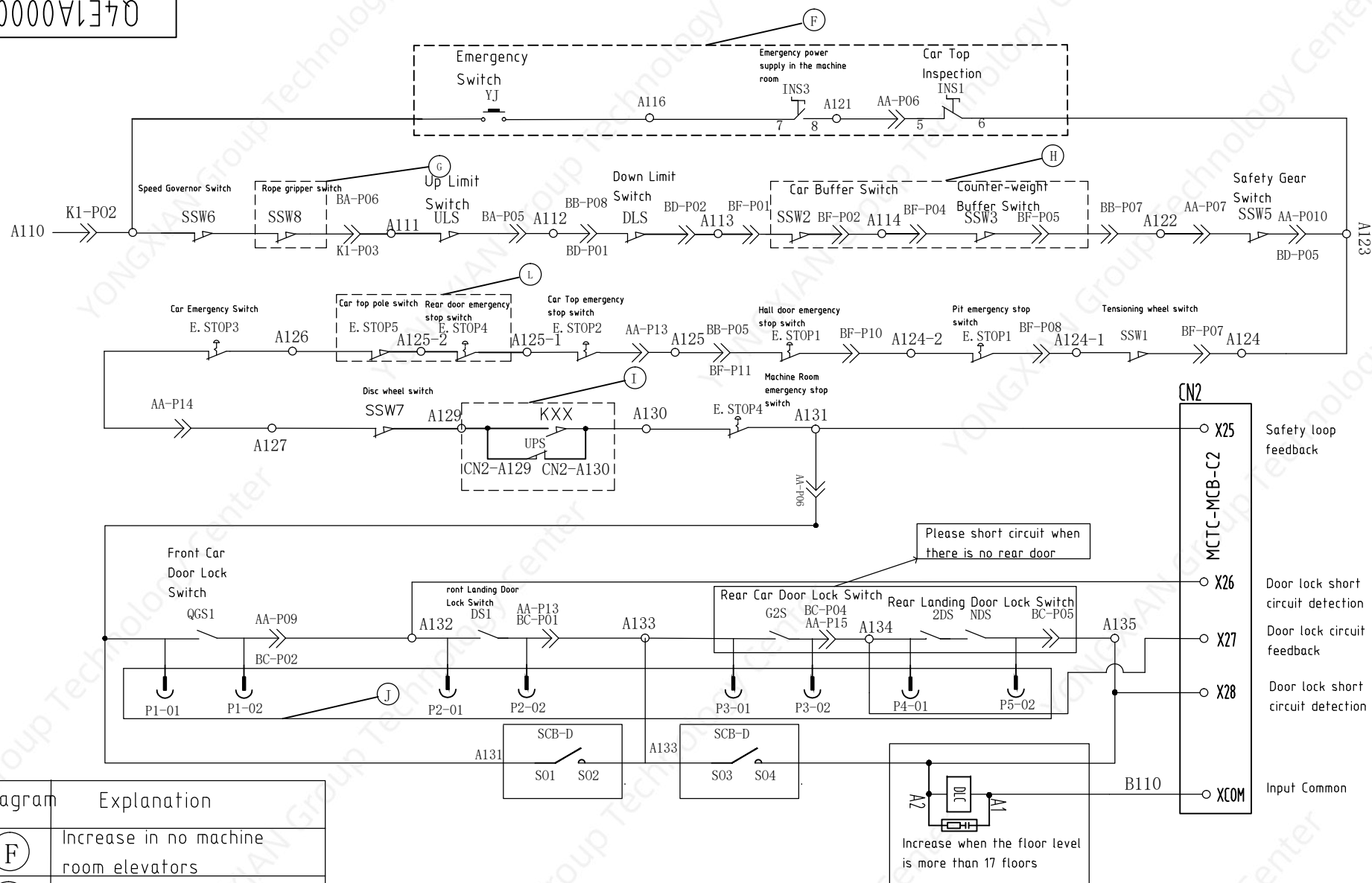
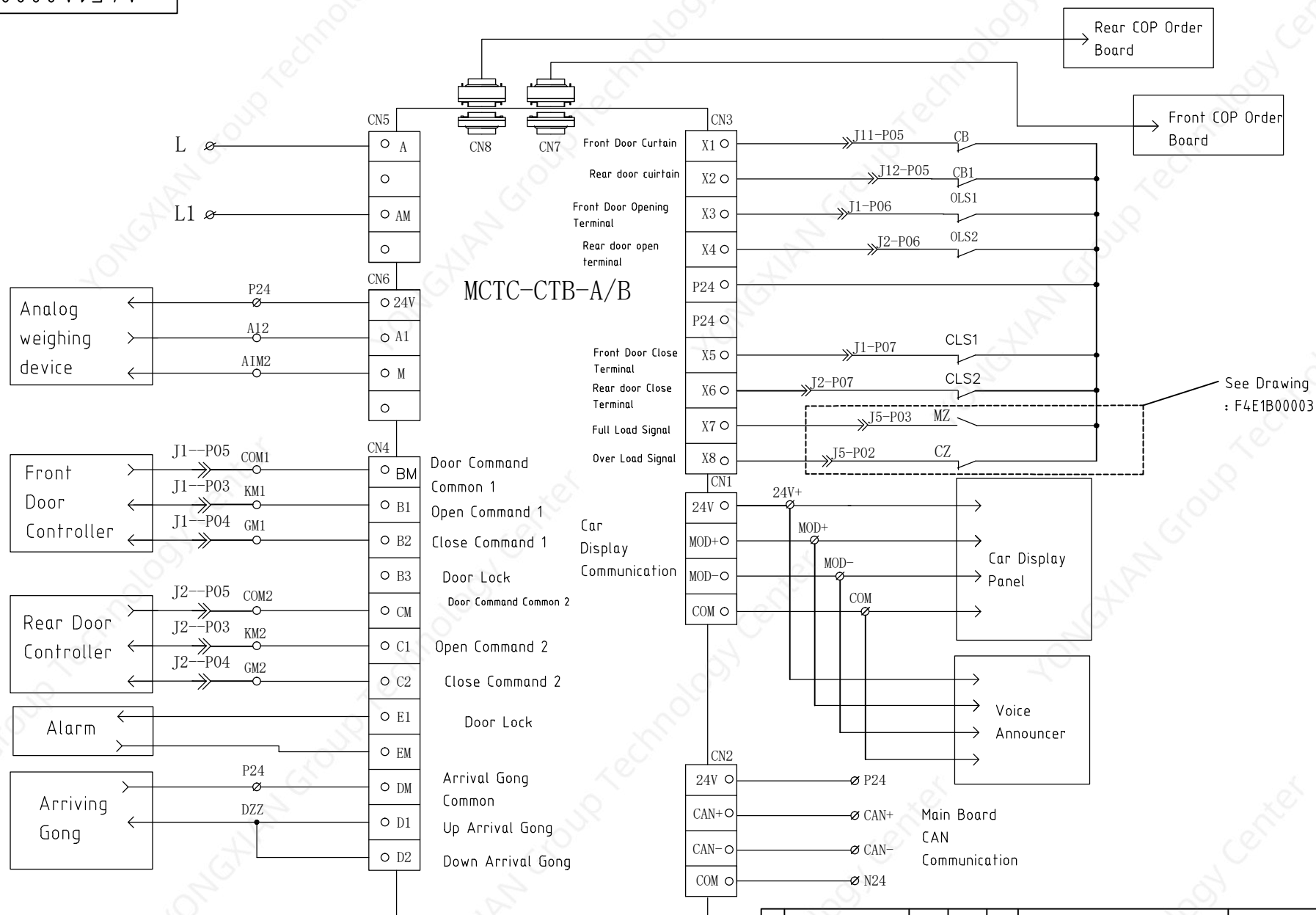


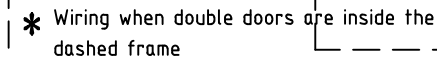
Diagram	Explanation
(F)	Increase in no machine room elevators
(G)	Increase when there is a rope gripper
(H)	Increase when speed exceeds 1M/S
(I)	Increase when UPS is present
(J)	Bypass short-circuit terminal
(L)	Increase when no machine room and through doors

8					NICE 3000 NEWS				Safety Circuit	
7										
6										
5										
4										
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2					Check	乔楠	Date	2021.5.3		
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Mark	Modify Content	Sign	Check	Date	Admit	倪壮	Date	2021.5.10		



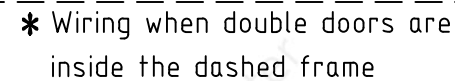
1, MOD+, MOD-is car interior display communication, do not connect with main board and outside board

8					NICE 3000 NEWS				Car roof circuit
7									
6									
5									
4									
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2					Check	乔楠	Date	2021.5.3	
1					Admit	倪壮	Date	2021.5.10	
Mark	Modify Content	Sign	Check	Date					



8					NICE 3000 NEWS				Door Operator Circuit			
7												
6												
5												
4									Q4E1A00007			
3					Design	任林	Date	2021.4.30				
2					Check	乔楠	Date	2021.5.3				
1					Admit	倪壮	Date	2021.5.10				
Mark	Modify Content	Sign	Check	Date								

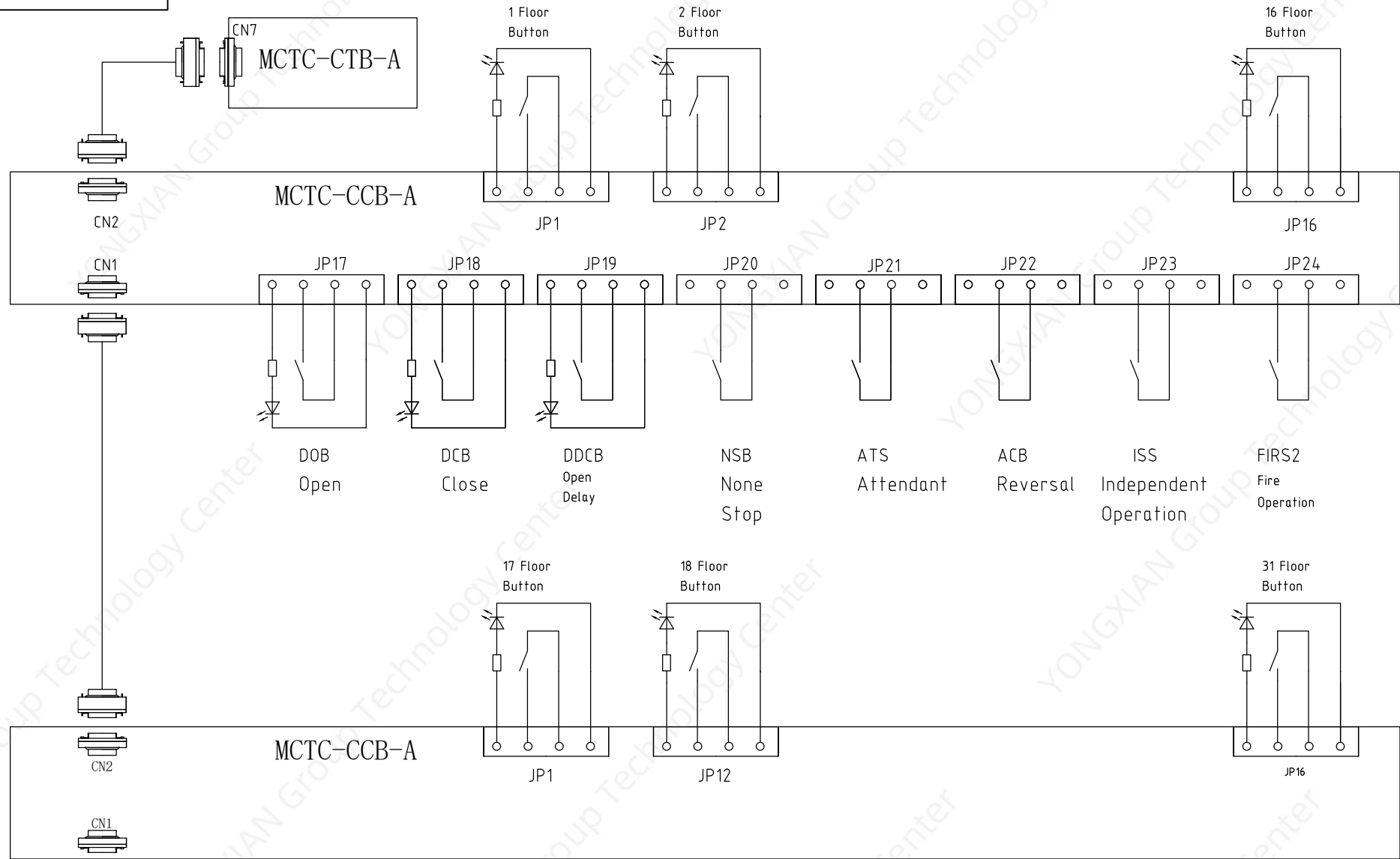




8					NICE 3000 NEWS				Door Operator Circuit	
7										
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5										
4										
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2					Check	乔楠	Date	2021.5.3		
1					Admit	倪壮	Date	2021.5.10		
Mark	Modify Content	Sign	Check	Date						



Q4E1A00010



- 1.This drawing is applicable to the main control box.
2. Each command board (MCTC-CCB-A) can connect to 16 floor buttons, and can be extended through cascading when the number of elevator floors exceeds 16
3. The buttons for open, close, attendant, and fire operation can only be connected to the first level command board, and other command boards JP17 to JP24 slots are invalid.

8					NICE 3000 NEWS				COP Command Board	
7										
6										
5										
4										
3					Design	任林	Date	2021.4.30	Q4E1A00010	
2					Check	乔楠	Date	2021.5.3		
1										
Mark	Modify Content	Sign	Check	Date	Admit	倪壮	Date	2021.5.10		

借通用件登记

插图

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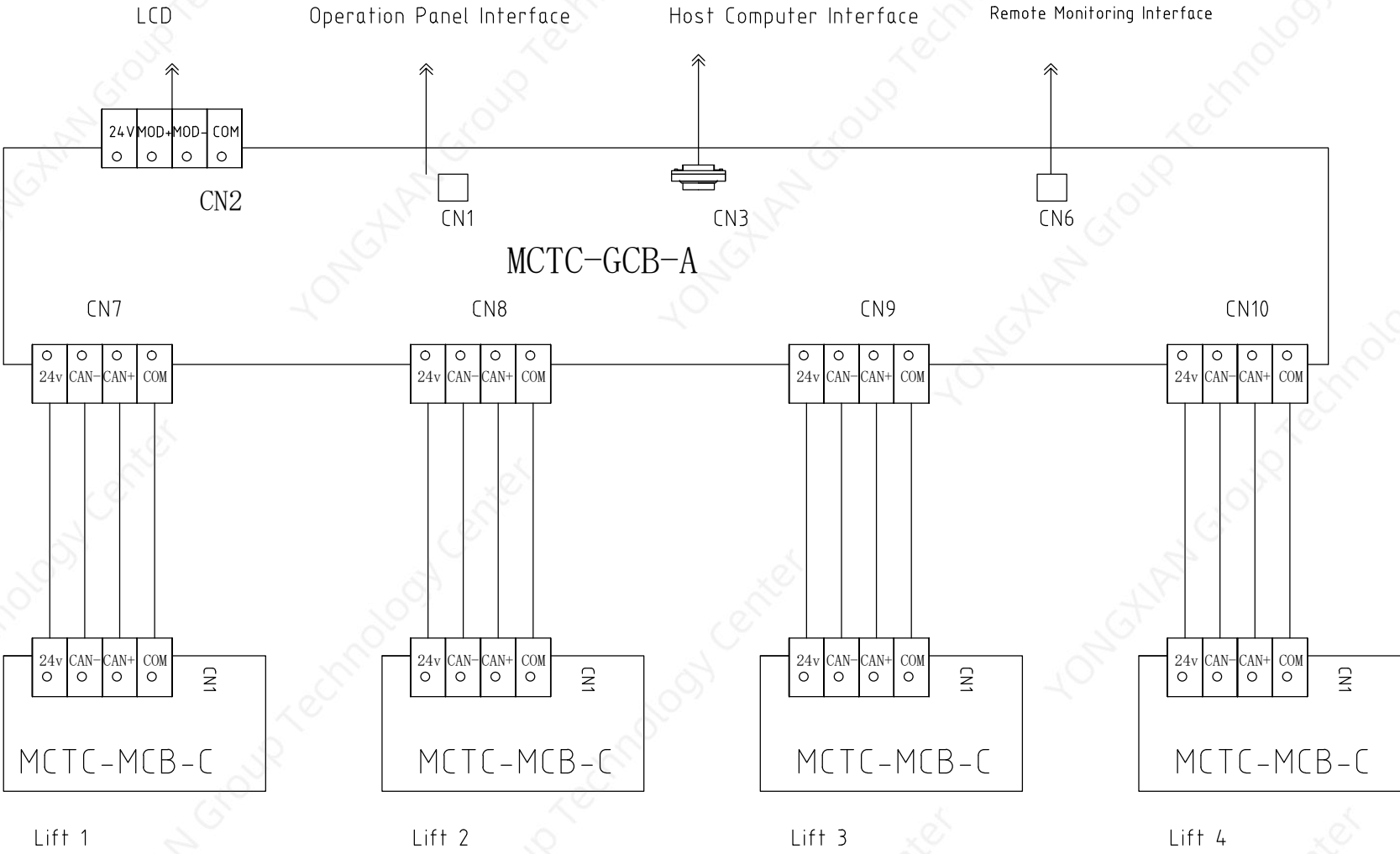
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签字

日期







借通用件登记

插图

校核

图底图总号

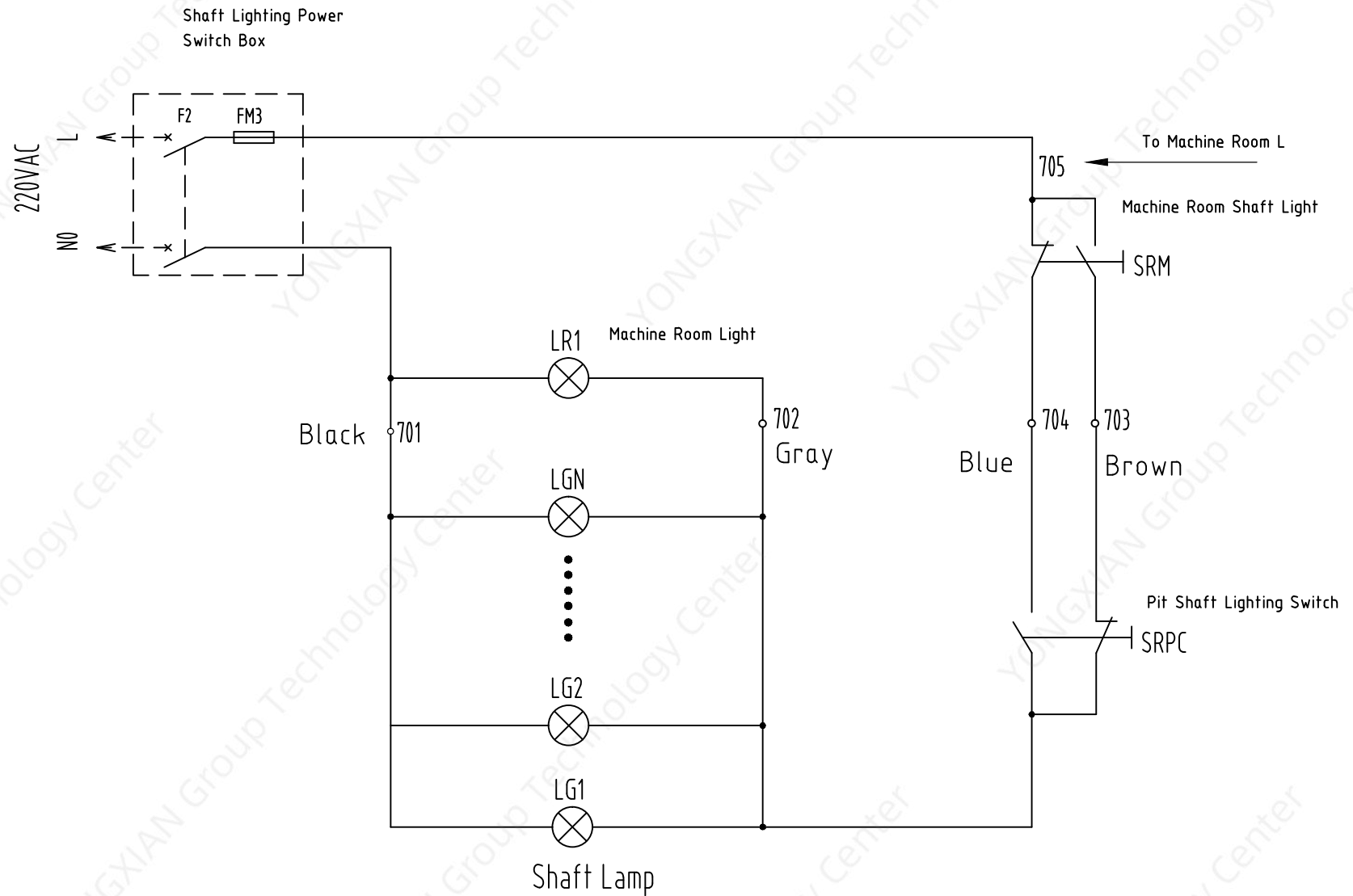
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7										
6										
5										
4										
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2					Check	乔楠	Date	2021.5.3		
1										
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Q4E1A00015



借通用件登记

插图

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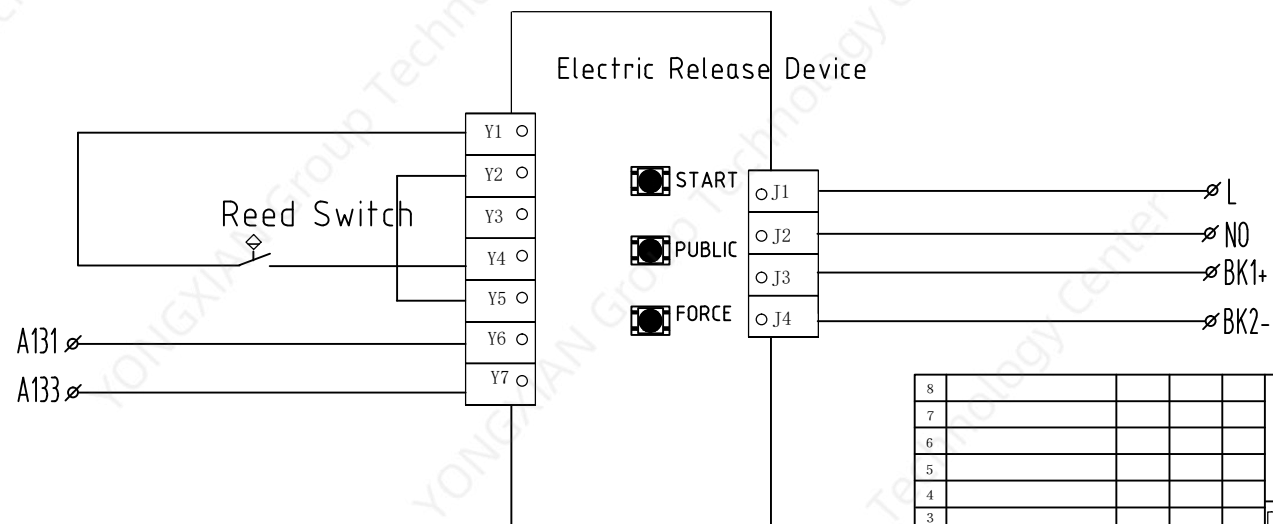
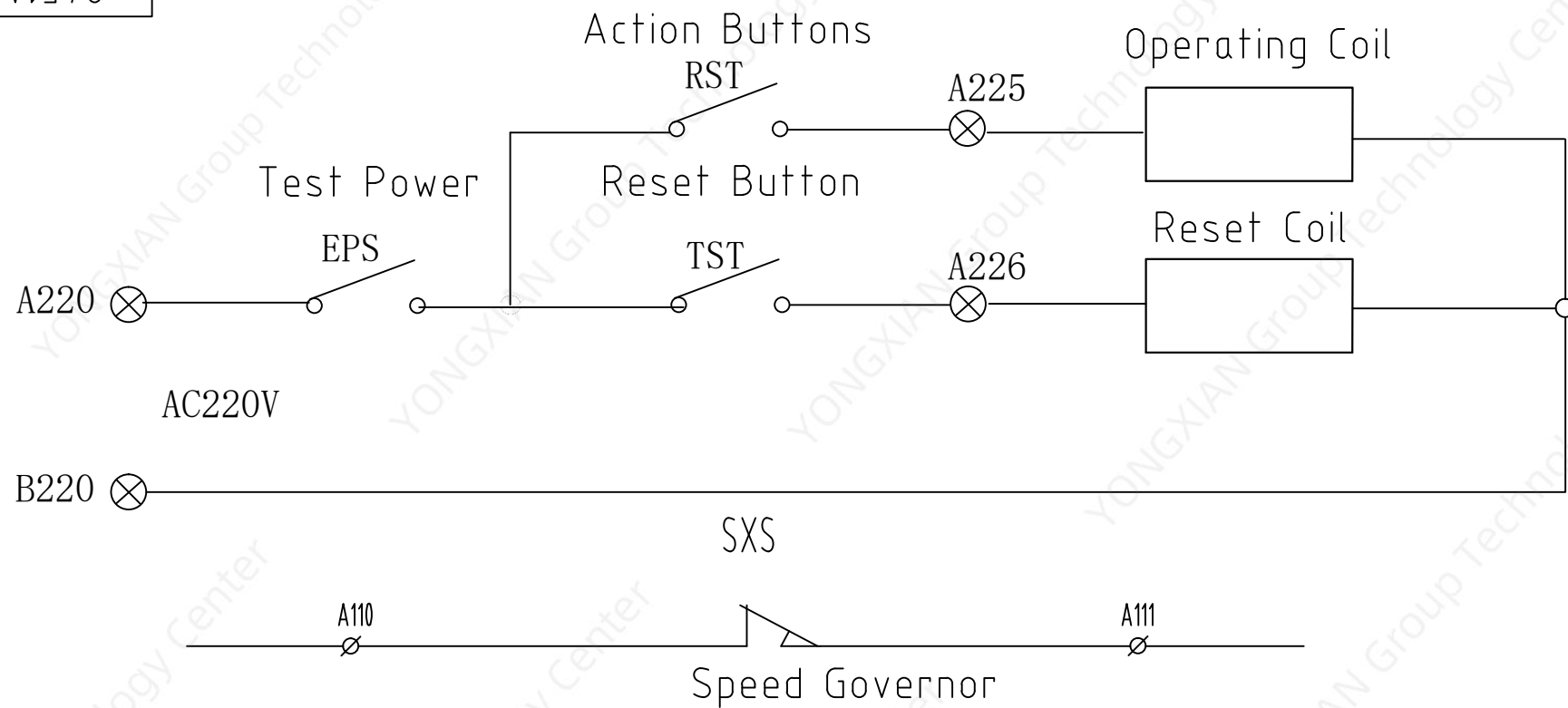
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签字

日期

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7										
6						Design 任林			Q4E1A00015	
5										
4						Check 乔楠				
3										
2						Admit 倪壮				
1										
Mark	Modify	Content	Sign	Check	Date					
						Date	2021.4.30			
						Date	2021.5.3			
						Date	2021.5.10			

Q4E1A000016



8					NICE 3000 NEWS				Machine Roomless Test and Electric Release
7									
6									
5									
4									
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2					Check	乔楠	Date	2021.5.3	
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借通用件登记

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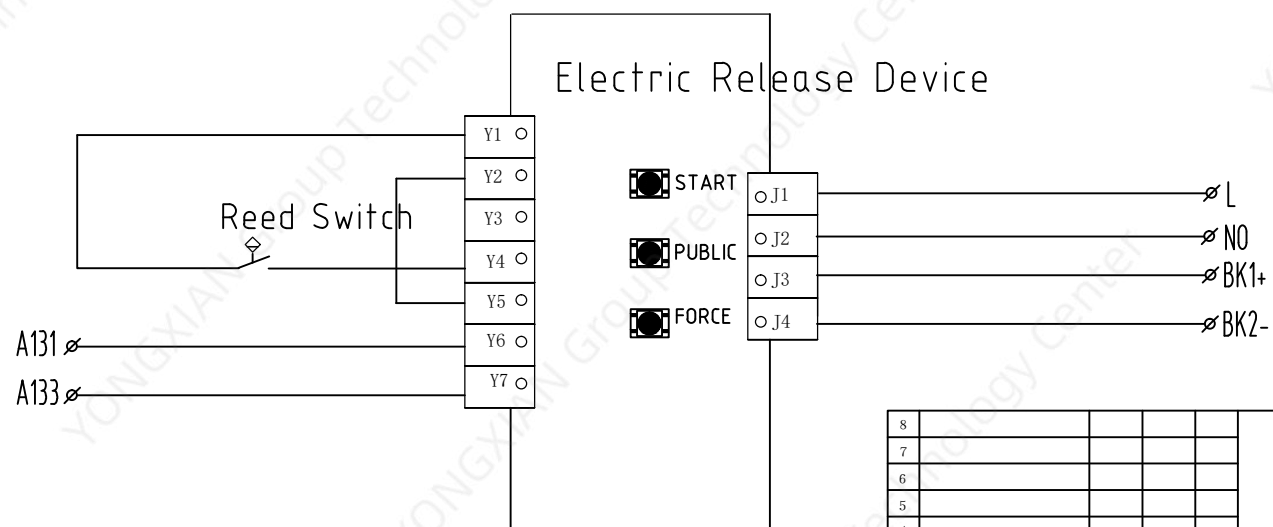
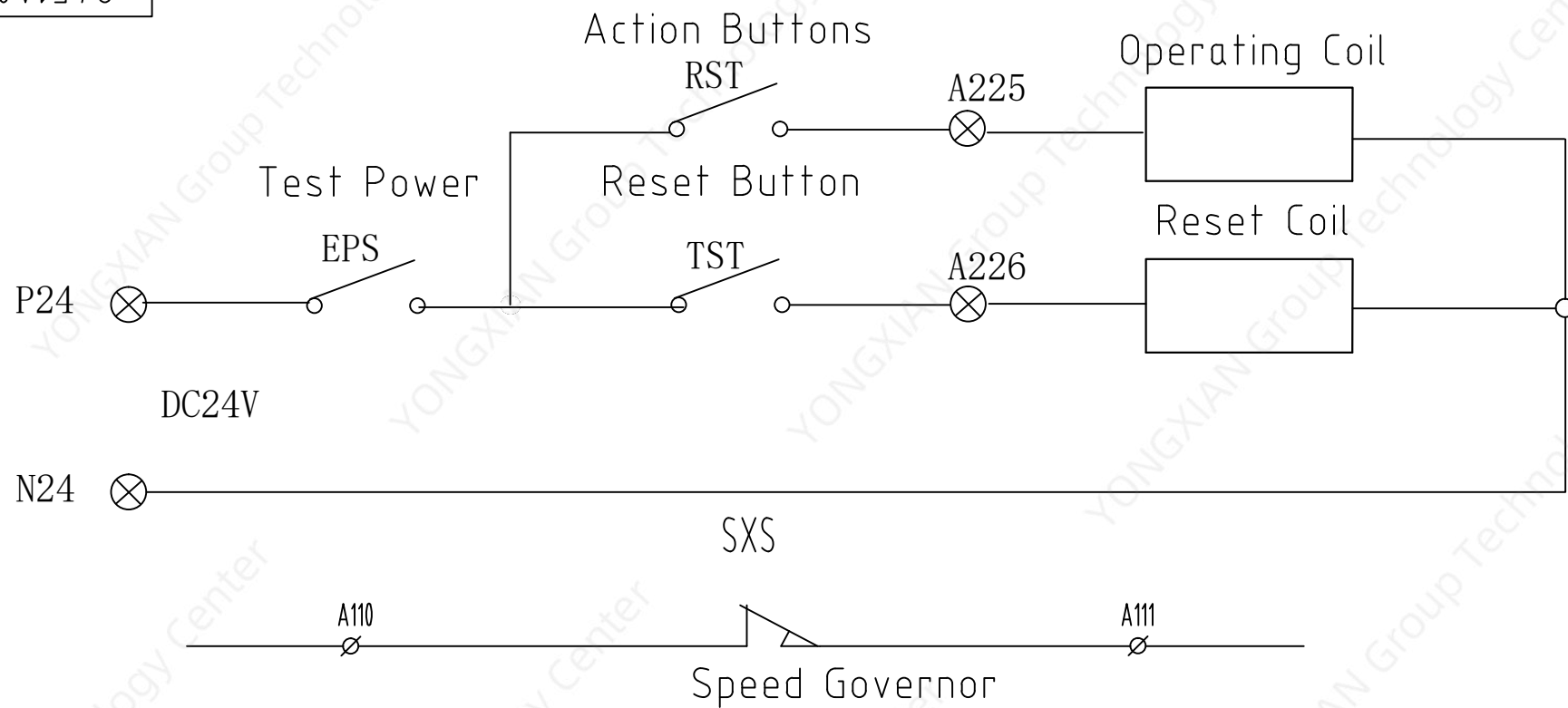
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簽字

日期

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6									
5									
4									
3					Design	任林	Date	2021.4.30	Q4E1A00016
2					Check	乔楠	Date	2021.5.3	
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借通用件登记

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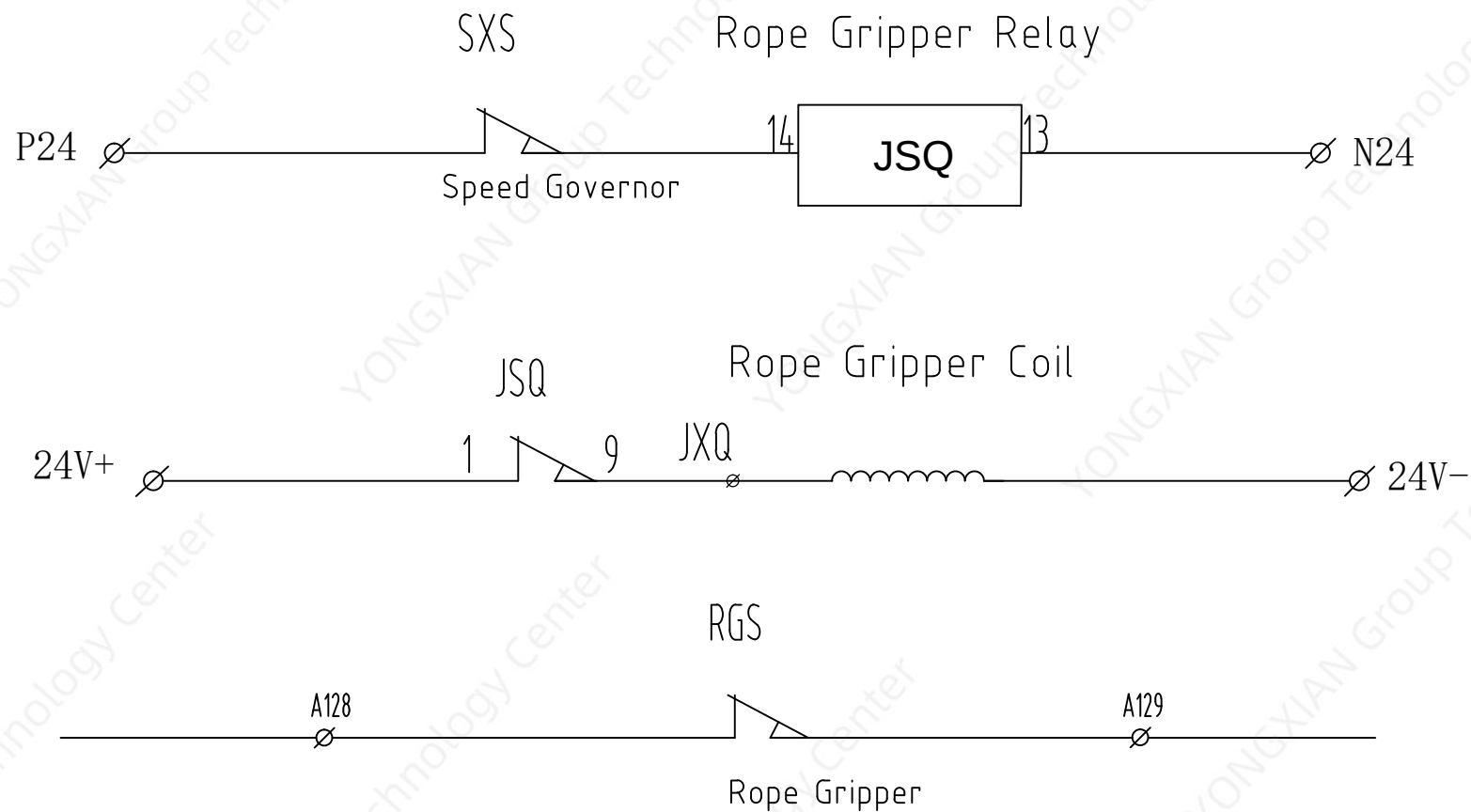
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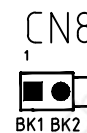
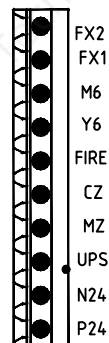
Q4E1A000017



1. The speed limiter has 2 sets of normally closed contacts, one set is connected to the safety circuit, and the other set is used for the rope gripper. The working voltage of the rope gripper is DC24V.

8					NICE 3000 NEWS				Rope Gripper Action Circuit	
7										
6										
5										
4										
3					Design	任林	Date	2021.4.30	Q4E1A00017	
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1					Admit	倪壮	Date	2021.5.10		
Mark	Modify Content	Sign	Check	Date						

CN7

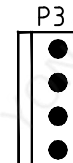


FU3

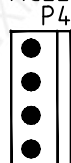


QH-ROOMBOARD

DC24V

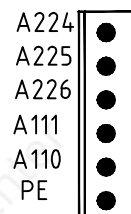


AC220V

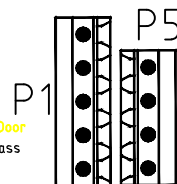


Speed Governor Power

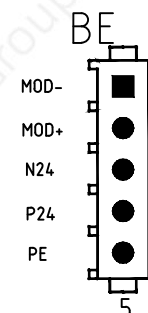
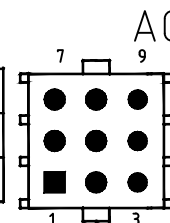
K1



Landing Door By Pass

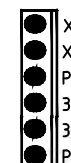


FL2	CAN	
FL1	CAN	X3
PE		X1

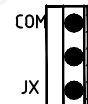


Inspection Sealing Line

K4



CN5



Asynchronous Test

JX	P24	N24
S05	X11	X10
B01	T01	B14.1
	K	Y

UCMP

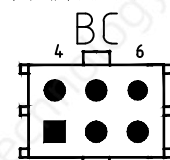
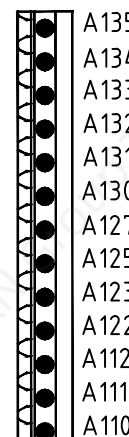


K7



Linkage

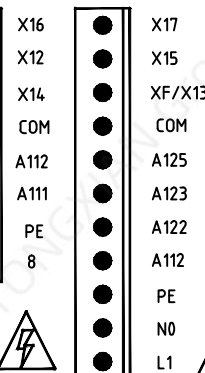
CN6



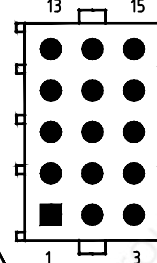
A134	A135	PE
A133	A132	PE

BA

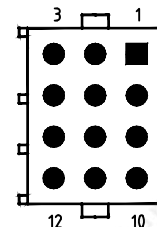
BB



A125	A127	A134
A123	11	A133
A122	A121	A132
B220	PE	A131
L1	N0	A220



AB

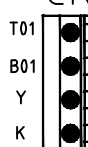


AA



Please select UCMP power supply based on actual on-site voltage

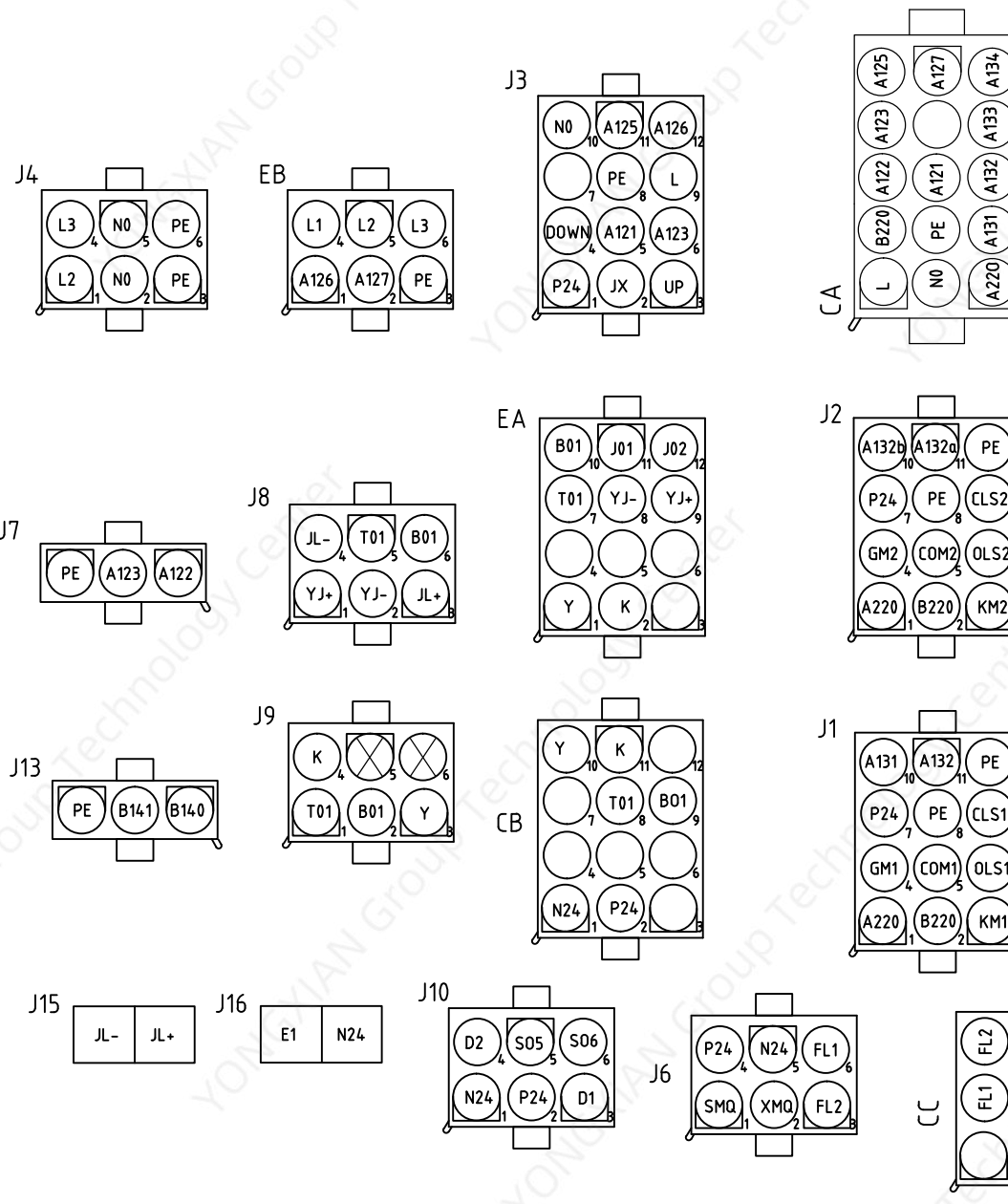
CN4



Intercom

Municipal lighting

Car Top Junction Box



Annotations:

- 1:CA,CB,CC plugs are Traveling Cable Plugs
- 2:J6 for the door area signal plugin
- 3:J7 for car top safety gear plugin
- 4:J8 for car top emergency power box plugin
- 5:J1 for front door operator and door lock plugin
- 6:J3 for car top inspection plugin
- 7:J9 for car top intercom plugin
- 8:J12 for rear door light curtain plugin
- 9:J2 for rear door operator and door lock plugin
- 10:EA,EB for COP plug in
- 11:J10 for car top arrival gong and door assistance port plug in
- 12:J4 for car top light and fan plugin
- 13:J5 for over load and full load plug in
- 14:When it is not through the door, short circuit 10 and 11 of J2
- 15:J1 front door machine and door lock plug-in
- 16:J13 Car door auxiliary door lock contact
- 17:J16 Sound and light alarm output for door sealing
- 18:J15 Intercom alarm output

PE

借通用件登记

插图

校核

旧版图总号

签字

日期



借通用件登记
描 图
校 稿
图底图总号
签 字
日 期

Q4E1A000021

Code	Name	Location	Note
QF	Controller Main Switch	Control Cabinet	
SC	Safety Contactor	Control Cabinet	
SW	Running Contactor	Control Cabinet	
KXX	Phase Sequence	Control Cabinet	
RZD	Brake Resistor	Control Cabinet	
MCB-C	Main Board	Control Cabinet	
CTB-A/B	Car Top Board	Car Top Board	
CCB-A	Instruction Board	COP Box	
HCB-H	Outside Call Board	LOP Box	
MCTC-PG-E	PG Card	Control Cabinet	
TCO	Transformer	Control Cabinet	
TSF	Transformer	Control Cabinet	
FU	Breaker	Power Box	10 A
FU1	Breaker	Control Cabinet	3 A
FU2	Breaker	Control Cabinet	3 A
FU3	Breaker	Control Cabinet	4 A
FU4	Breaker	Control Cabinet	6 A
TPB	Switch Power	Control Cabinet	

Code	Name	Location	Note
BY	Brake Contactor	Control Cabinet	
BZK	Brake Power Board	Control Cabinet	
SMQ	Upller Leveling	Car	
XMQ	Down Leveling	Car	
FLU	Up Limit	Shaft	
FLD	Down Limit	Shaft	
SUS1	Up Deceleration 1	Shaft	
SDS1	Down Deceleration 1	Shaft	
SUS2	Up Deceleration 2	Shaft	
SDS2	Down Deceleration 2	Shaft	
KBK1	Brake Switch Test 1	Traction Machine	
KBK2	Brake Switch Test 2	Traction Machine	
FIRE	Fire Switch		
WK	Traction Machine Thermal Protection	Traction Machine	
INS3	Control Inspection	Control Cabinet	
INS2	Car Inspection	COP	
INS1	Car Top Inspection	Car Top Box	
UP	Controller Up Going	Control Cabinet	

Code	Name	Location	Note
DOWN	Controller Down Going	Control Cabinet	
UP	Car Up Going	COP	
DOWN	Car Down Going	COP	
UP	Car Top Up Going	Car Top Box	
DOWN	Car Top Down Going	Car Top Box	
ULS	Up Terminal Limit	Shaft	
DLS	Down Terminal Limit	Shaft	
SSW6	Speed Governor	Machine Room	
SSW2	Car Buffer	Shaft	
SSW3	Counter-weight Buffer	Shaft	
SSW5	Safety Gear	Shaft	
SSW1	Wire Break Switch	Shaft	
E.STOP1	Pit Emergency Stop	Shaft	
E.STOP2	Car Top Emergency Stop	Car Top Box	
E.STOP3	Car Emergency Stop	Control Cabinet	
SSW7	Turning Gear Wheel	Machine Room	
SSW8	Rope Gripper Switch	Machine Room	
E.STOP4	Controller Emergency Stop	Control Cabinet	

借通用件登记

描 图

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旧底图总号

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日期

8					NICE 3000 NEWS				Symbol	
7									Description 1	
6										
5										
4										
3					Design	任林	Date	2021.4.30	Q4E1A00021	
2					Check	乔楠	Date	2021.5.3		
1					Admit	倪壮	Date	2021.5.10		
Mark	Modify Content	Sign	Check	Date						

Q4E1A00022

Code	Name	Location	Note
GS1	Front Car Door Lock	Door Operator	
GS2	Rear Car Door Lock	Door Operator	
1DS	Landing Door Lock	Shaft	
EL6	Machine Roomless Lighting	Control Cabinet	
KBS	Control Lighting Switch	Control Cabinet	
YJ	Machine Room Emergency Switch	Control Cabinet	
KM1	Door Open Command 1	Door Operator	
GM1	Door Close Command 1	Door Operator	
KM2	Door Open Command 2	Door Operator	
GM2	Door Close Command 2	Door Operator	
CB	Front Door Light Curtain	Car	
CB1	Rear Door Light Curtain	Car	
OLS1	Front Door Open Limit	Door Operator	
OLS2	Rear Door Open Limit	Door Operator	
CLS1	Front Door Close Limit	Door Operator	
CLS2	Rear Door Close Limit	Door Operator	
MZ	Full Load Switch	Car	
CZ	Over Load Switch	Car	

Code	Name	Location	Note
DOB	Door Open Button	COP	
DCB	Door Close Button	COP	
DDCB	Door Opening Delay Button	COP	
NSB	Direct Travel Switch	COP	
ATS	Attendant Switch	COP	
ACB	reverser	COP	
ISS	Independent Operation Switch	COP	
FIRS2	Fire Operation Switch	COP	
IPS	Emergency Power	Car Top Box	
SCB-A	Advance Opening Board	Control Cabinet	
XS1	Car Top 220V Socket	Car Top Box	
XS2	Pit 220V Socket	Shaft	
SJM	Car Lighting Switch	COP	
SFA	Car Fan Switch	COP	
EL1	Car Lighting	Car	
HFN	Car Fan	Car	
XS3	Front Door Lock	Door Operator	

[illegible]

借通用件登记

插图

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旧底图总号

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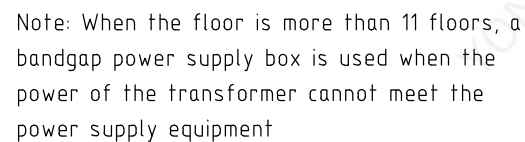
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2					Check	乔楠	Date	2021.5.3		
1					Admit	倪壮	Date	2021.5.10		
Mark	Modify Content	Sign	Check	Date						



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8					NICE 3000 NEWS				Inspection Circuit/Brake Circuit
7									
6									
5									
4									
3					Design	任林	Date	2021.4.30	
2					Check	乔楠	Date	2021.5.3	
1					Admit	倪壮	Date	2021.5.10	
Mark	Modify Content	Sign	Check	Date					

