Four-generation control cabinet

Electric schematic diagram of Manaker 3000NEW and AS380 villa ladder

Scope of application: villa ladder fourth generation control cabinet, KNWC-KZG-A2

Drawing no. : K - B - 017 - C

Version 2.0

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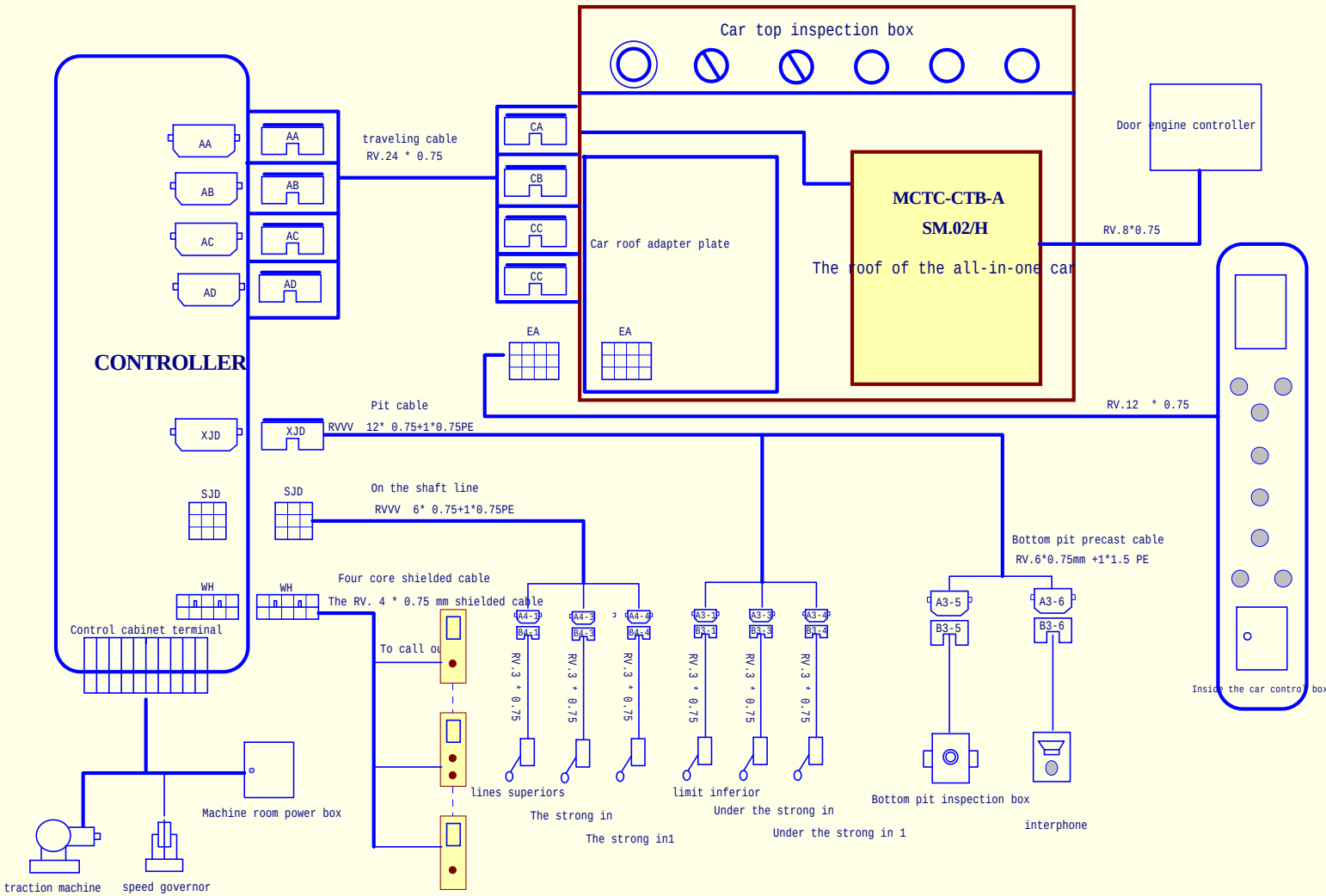
Cage speed change well cable — 45

Drawings change record sheet

Modification date **The page number**

	Drawing no.		Modification date	Revised one	version

design		total of 45 pages	Drawing change record
proofreading		Page 2	Villa ladder schematic diagram
audit			



design		total of 45 pages	General wiring diagram
proofreading		Page 3	Villa ladder schematic diagram
audit			

Drawing code notes						Symbols that		Description of circuit board
Q1-Qn+1	Air switch	KFW	Speed limiter reset button	2BFS	Car bumper		Normally closed contacts	Integrated controller MCTC-MCB-C2 AS.029
F1-F+n	fuse	KSY	Speed limiter manually operated switch	1BFS	Weight buffer		Normally open contacts	
BDY1-BDY+N	Power transformer	KSJ	The driver	TES	top urgent stop		insurance	
JXX	Phase sequence relay	TCI	The car roof repair	CES	car stop		Along with the cable	Roof communication board MCTC-CTB-A SM.02/H
RZ	Braking resistor	TCIU	Car top maintenance upward	SOS	Safety wrench switch		diode	
SW	Output contactor	TCID	Car top maintenance downward				resistance	
BY	Lock contactor	CIS	Emergency electric operation	MES	Emergency stop of control cabinet		fan	Car command board MCTC-CCB-A SM.02/G
FX	Star seal contactor	UDB	Emergency power up	KJM	The car door lock		Photoelectric switch	
BZK	Lock mechanical switch	DDB	Emergency power down	KTM1-------KTMn	Hall door locks		Key switch	
KZC	Speed limiter test equipment	KXF	**Fire control switch**	KST	Ladder lock switch		buzzer	Control cabinet plug-in board KNWC-KZG-A2
LSD	lower limit position	LWO	The overload switch	FLSU	On the limit		terminal	
LSU	upper part of limit	KZS	Cut out switch	FLSD	Under the limit		Terminal row, plug - in	
DLS1	Forced speed change	LWX	Full load switch	BZ	brake coil		Indicator light	
ULS1	Upper forced speed change	OLT1	Limit for front door closing	ZJF	Computer room socket		coil	
DLS2	Forced downward speed change 1	CLT1	Limit for front door opening	ZJD	Its top outlet		grounding	
ULS2	Upward forced speed change 1	AGM	close button	ZDK	Bottom hole socket		node	
GMQ	flat area	AKM	Open button				button	
KXQ	Speed limiter reset device	EDP1	The front screen					
ZCW	Speed limiter test button	KSSX	Uplink overspeed protection switch			PG	The encoder	
ZJX	Capsules lighting	OS	Speed limiter					
ZFS	Capsules fan	PES2	Hall door stop			DY	The motor	
ZKM	Car lighting switch	PES1	Pit stop					
ZKS	Cage fan switch	GTS	Cord wheel switch				The brake coil	
DMO	Door machine power supply							
							As the clock	
							Travel switch	
							Splice pieces	

design		total of 45 pages	Symbols that
proofreading		Page 3	Villa ladder schematic diagram
audit			

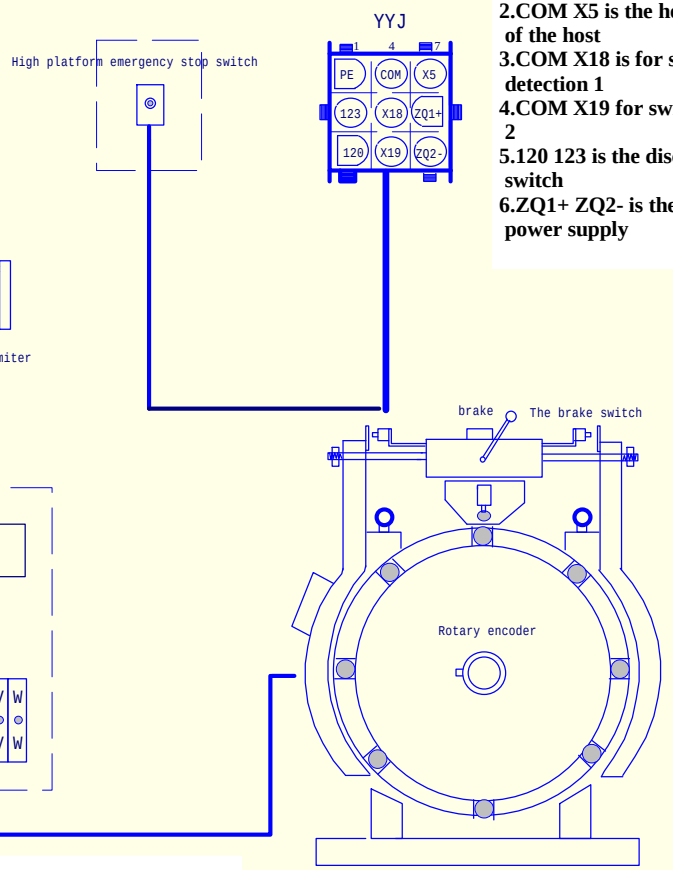
Instructions for ARD and electric brake release:

1. When the short cap connection (ARD) is made, the ARD shall be opened in an emergency flat layer.

2. When connecting the short cap (BRD), manually press the (SZ) button to realize the electric release brake.

Note: ARD will start the emergency layer only in the case of power failure. Be sure to move the short cap to (BRD) and press (SZ) before the electric release brake will take effect.

Sometimes increase, sometimes connect 120/123



YYJ plug-in line description:

1.PE is the grounding wire of the main engine

2.COM X5 is the heat detection of the host

3.COM X18 is for switch detection 1

4.COM X19 for switch detection 2

5.120 123 is the disc wheel switch

6.ZQ1+ ZQ2- is the switch power supply

Fuse Description:

1. F1 safety loop

2. Power supply for F2 door engine

3. Power supply for F3 speed limiter

Wiring instructions: 1.501 502 car lighting room power supply box access.

2. ZM switch is the main switch of lighting power supply.

3. If the power supply is 380V connected to R/S/T/N, connect 3 phase 4 lines.

4. If the power supply is 220V R/N, connect the single-phase 2 line.

Description of line plug:

1.YYJ is the switch power supply and switch line.

2. DCS is the cable plug-in of the electric plug lock switch.

3. HX is the well lighting cable plug.

4. The middle white line area is the accompanying cable area.

5. TM is the hall door lock switch cable plug-in.

6. WH is an outgoing communication cable plug-in.

7. JP8 is rope head weighing switch connector, 301/24+ 302/24-X20 signal.

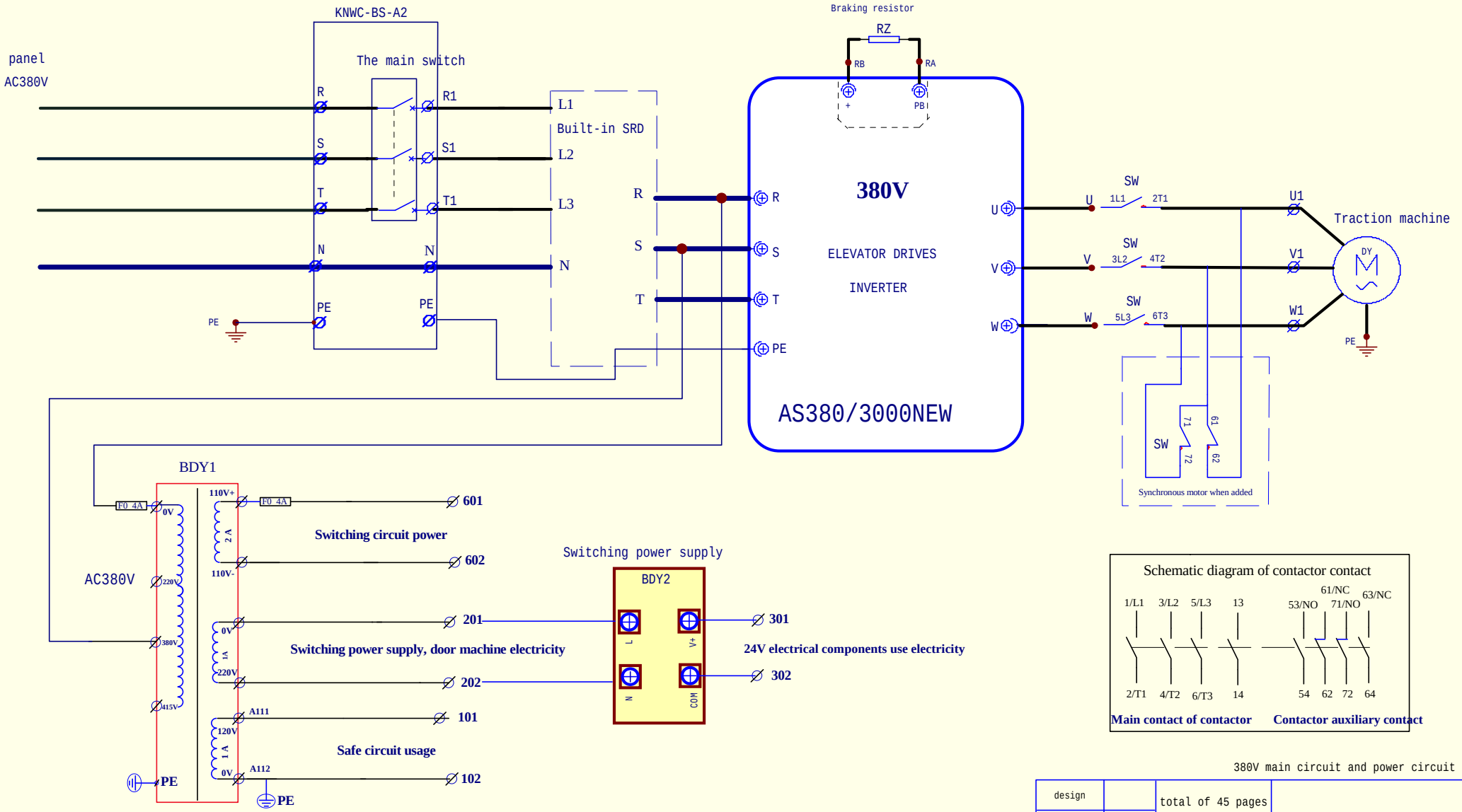
JP7 is the interphone connector, or the telephone line C01/C02 of the telephone

9. SJD is the upper wellbore information cable plug-in.

10. XJD is the downhole information and pit safety cable plug-in.

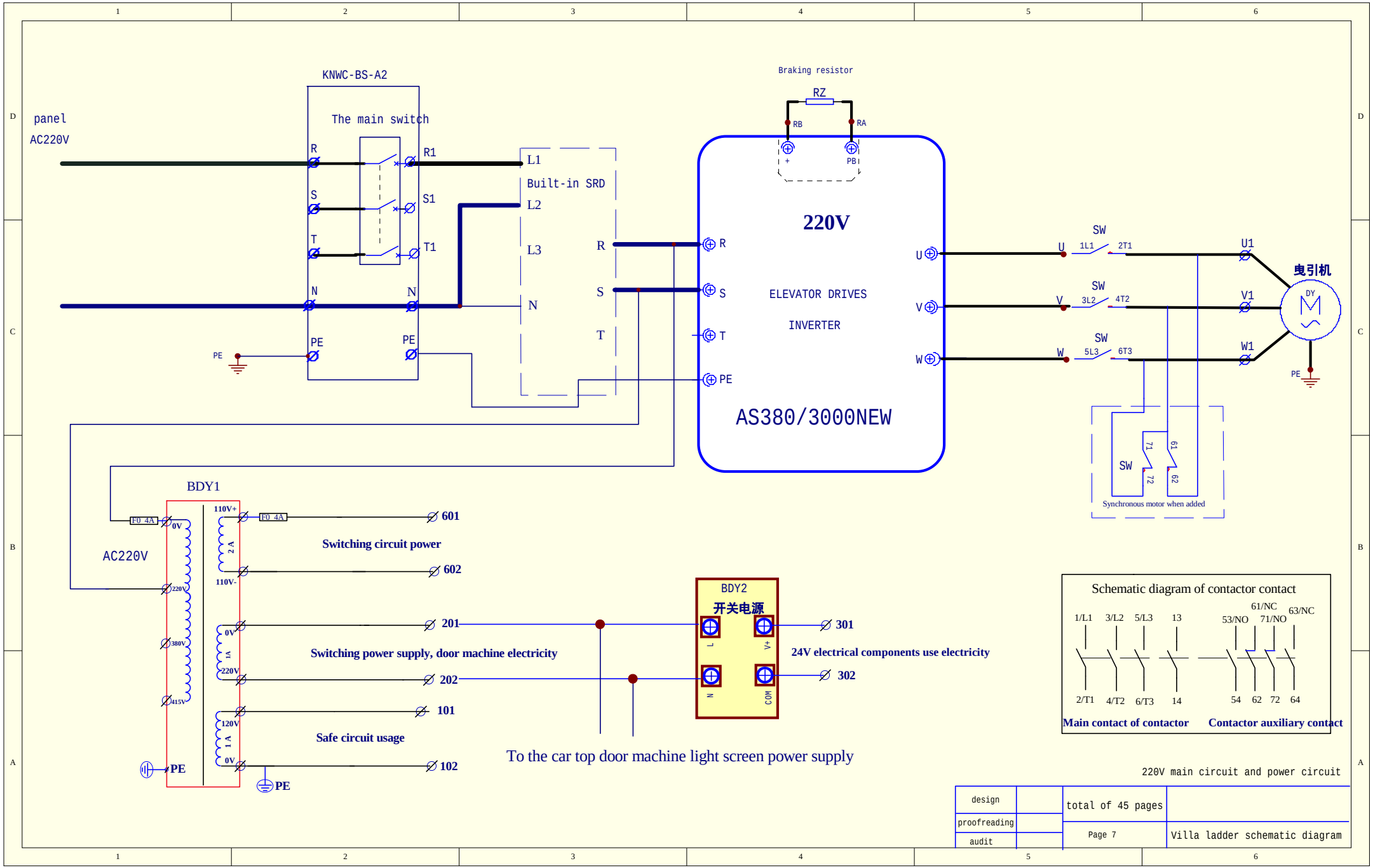
11. XSQ is the switch and test reset cable plug for speed limiter.

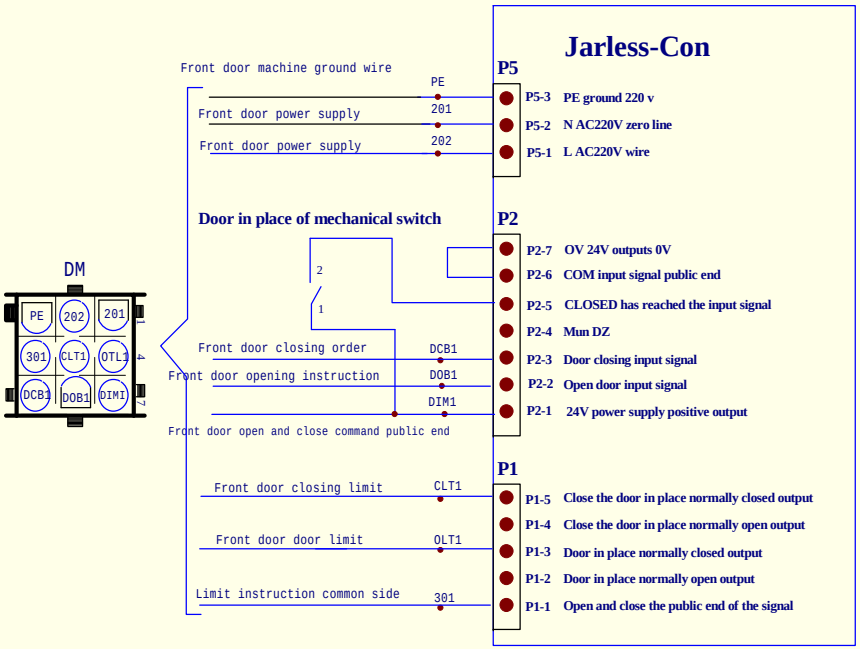
design		total of 45 pages	Machine room wiring diagram
proofreading		Page 5	Villa ladder schematic diagram
audit			

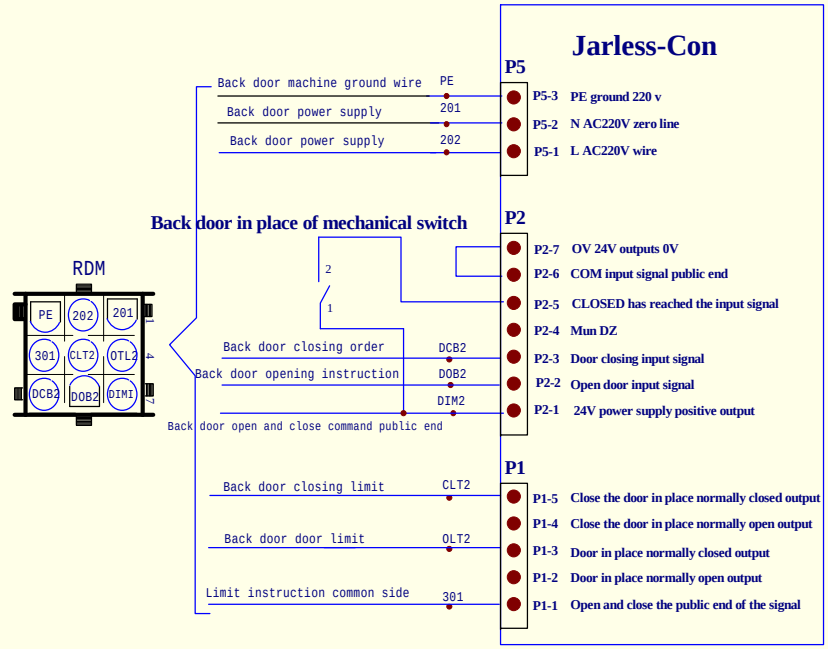


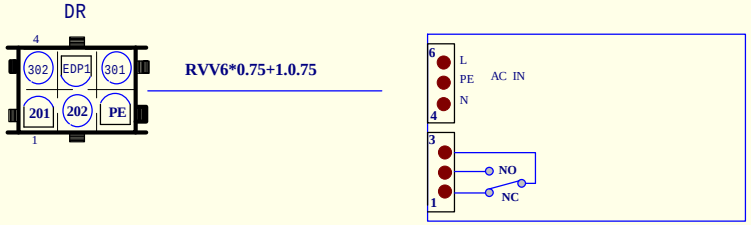
380V main circuit and power circuit

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KNWC-BS-A2
panel
AC220V
The main switch
R
S
T
N
PE
R1
S1
T1
N
PE
L1
Built-in SRD
L2
L3
N
R
S
T
PE
Braking resistor
RZ
RB
RA
+
PB
220V
ELEVATOR DRIVES
INVERTER
AS380/3000NEW
U
V
W
PE
SW
1L1
2T1
3L2
4T2
5L3
6T3
U1
V1
W1
曳引机
DY
PE
SW
71
72
61
62
Synchronous motor when added
BDY1
AC220V
F0 4A
0V
220V
380V
415V
110V+
110V-
2 A
0V
1A
220V
120V
1 A
0V
PE
PE
F0 4A
601
Switching circuit power
602
201
Switching power supply, door machine electricity
202
101
Safe circuit usage
102
BDY2
开关电源
L
N
V+
COM
301
24V electrical components use electricity
302
To the car top door machine light screen power supply
Schematic diagram of contactor contact
1/L1
3/L2
5/L3
13
53/NO
71/NO
61/NC
63/NC
2/T1
4/T2
6/T3
14
54
62
72
64
Main contact of contactor
Contactor auxiliary contact
220V main circuit and power circuit
design
proofreading
audit
total of 45 pages
Page 7
Villa ladder schematic diagram

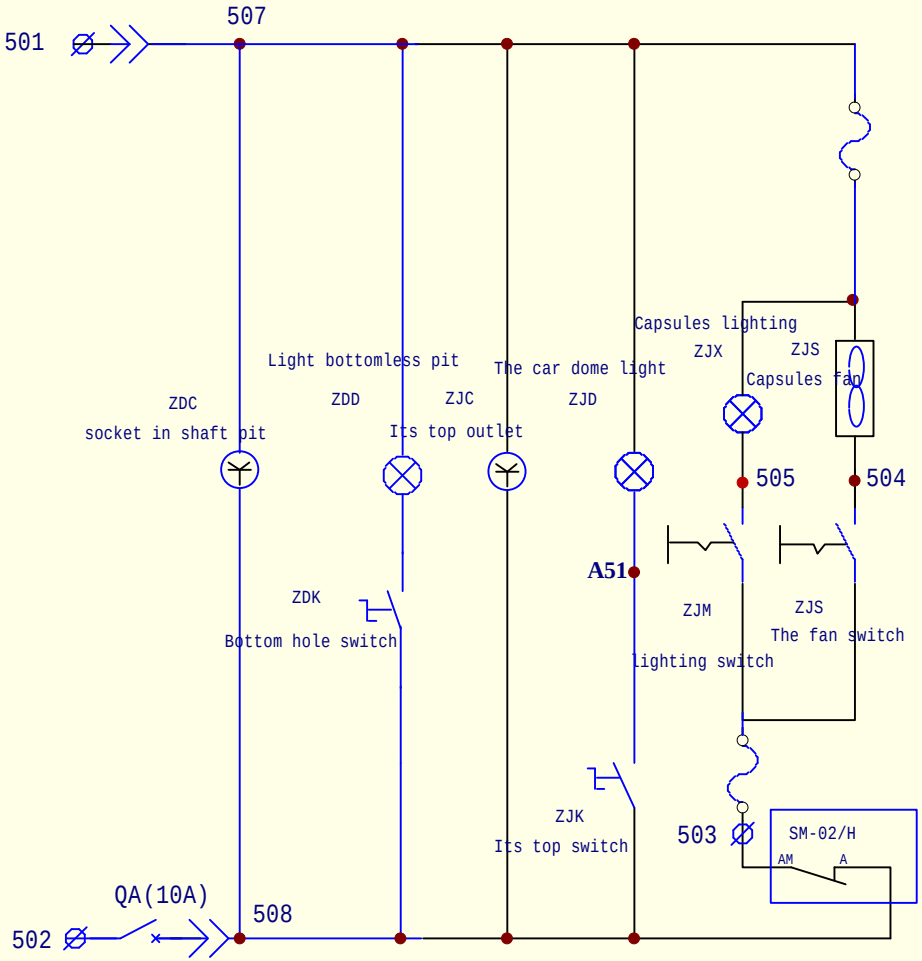




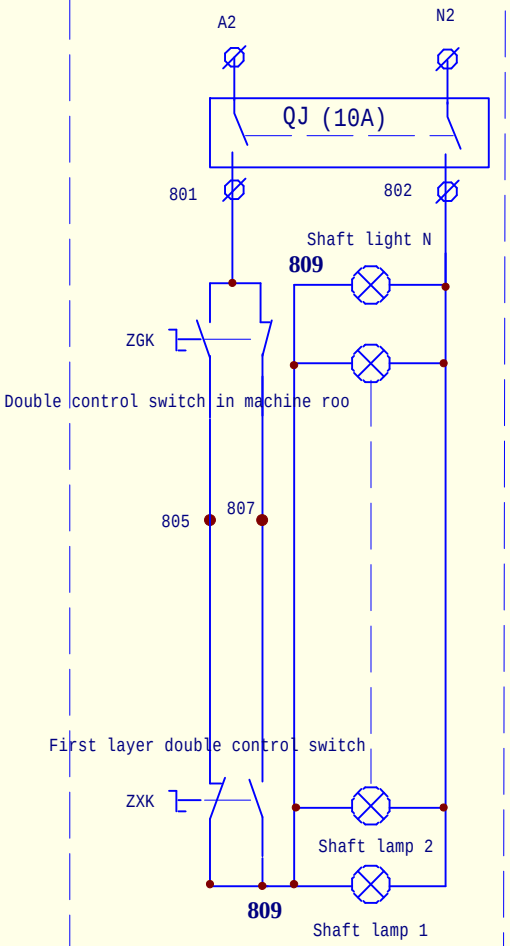


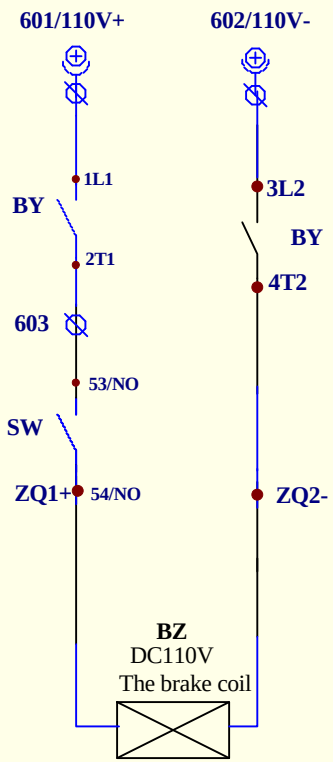
Note: PCB plug-in for the female plug-in, male pin
The cable is a common plug-in, and the pin model is 350536-1
Wiring diagram of the back door machine. If there is a back door, arrange wiring in this diagram
When there is a back door machine, the rear door machine cable is prepared.

design		total of 45 pages	Door engine circuit diagram
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User provided well lighting





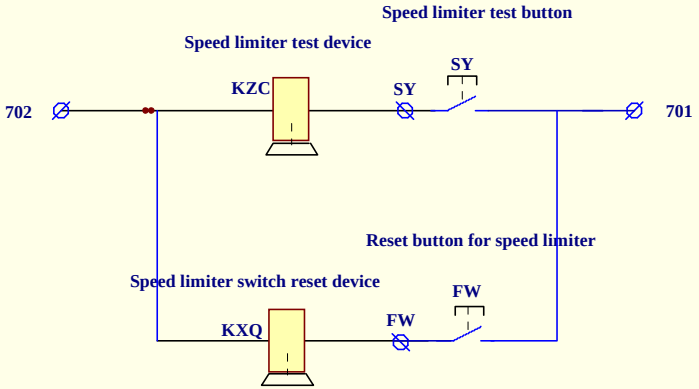
Note: 1. No machine room is equipped with machine room lighting and socket

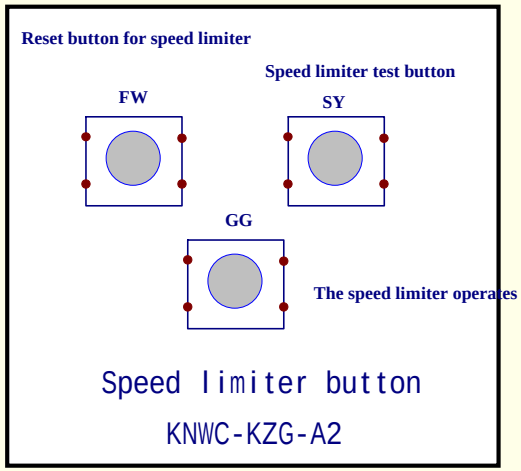
2. Lighting and socket are not required for the machine room

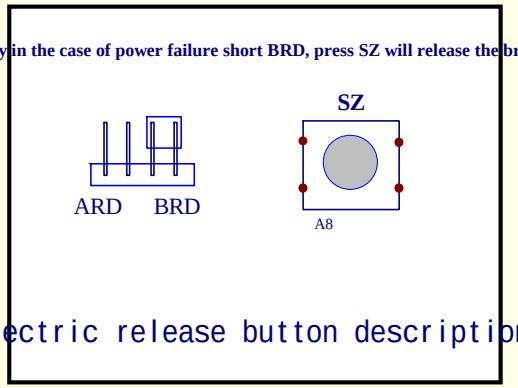
design		total of 45 pages	Lighting and switch
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audit			

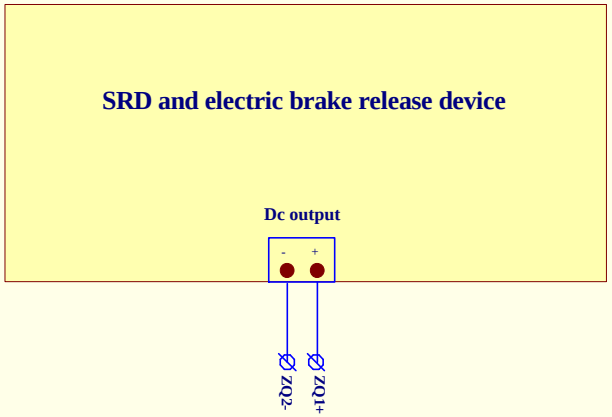
Remark:

1. 701 and 702 are the power supply of the speed limiter. Please test the lower voltage before switching on the power
2. 201.202 is AC220V power supply
3. 301.302 is DC24V power supply



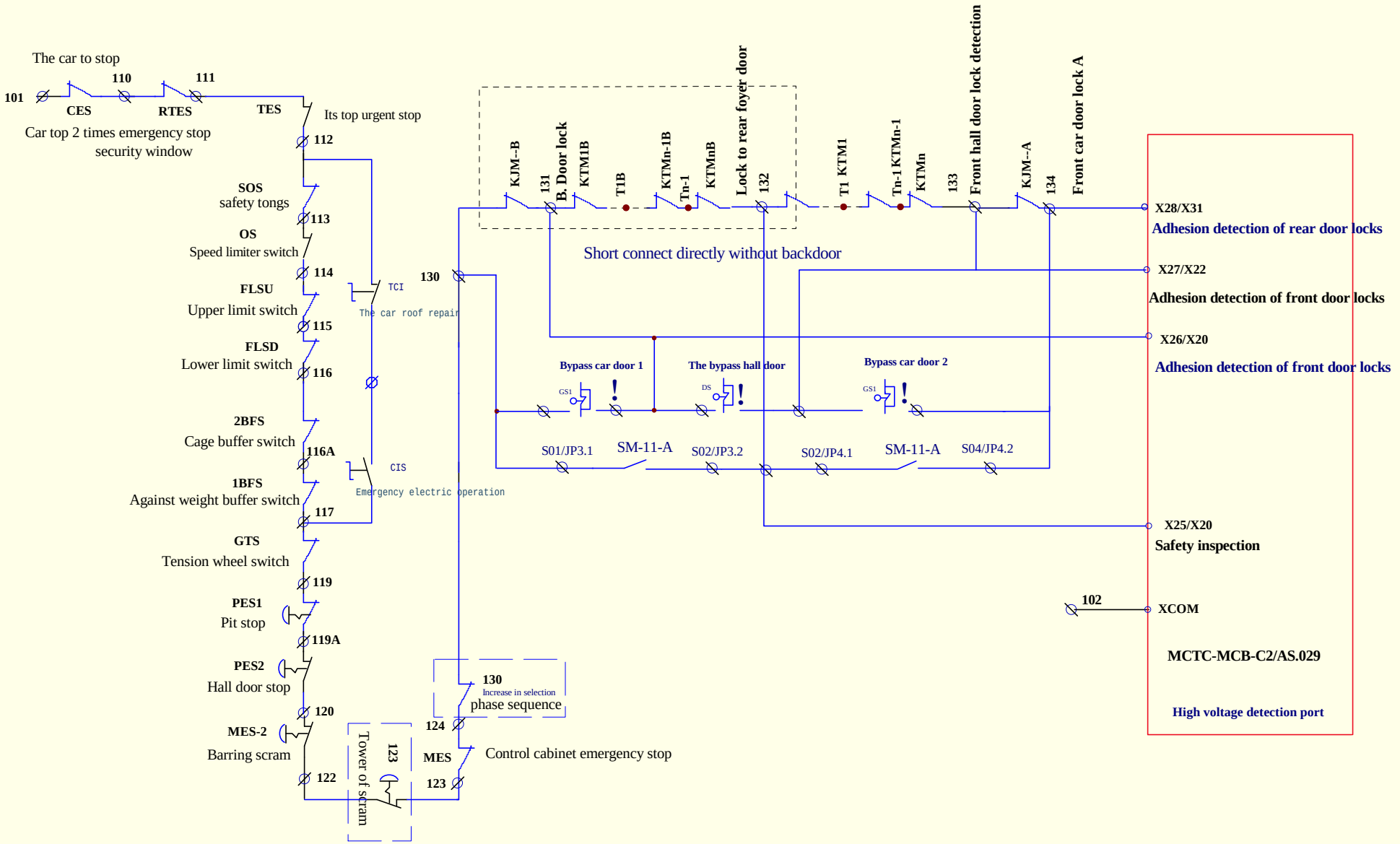




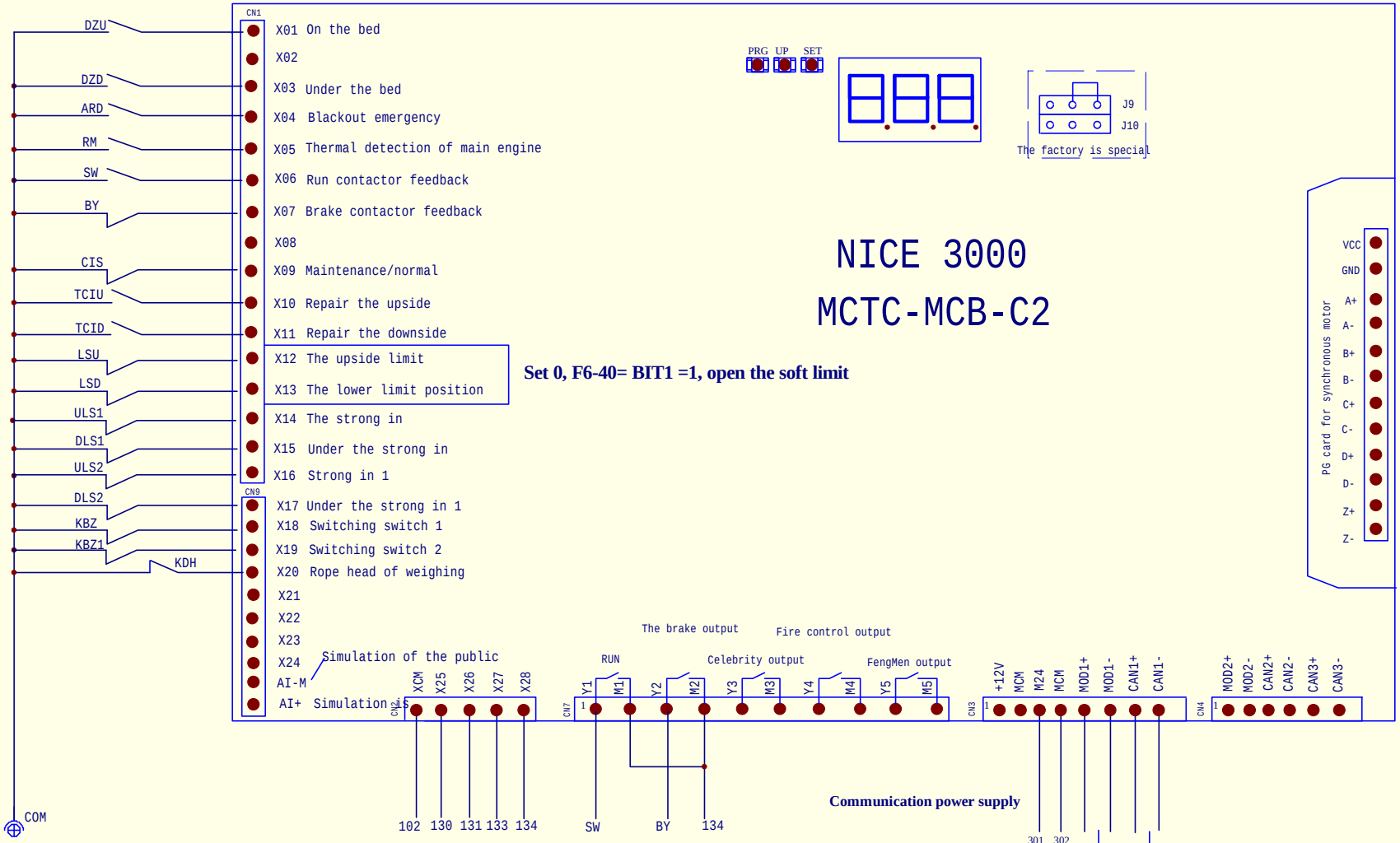


Speed limiter and electric release circuit diagram

design		total of 45 pages	
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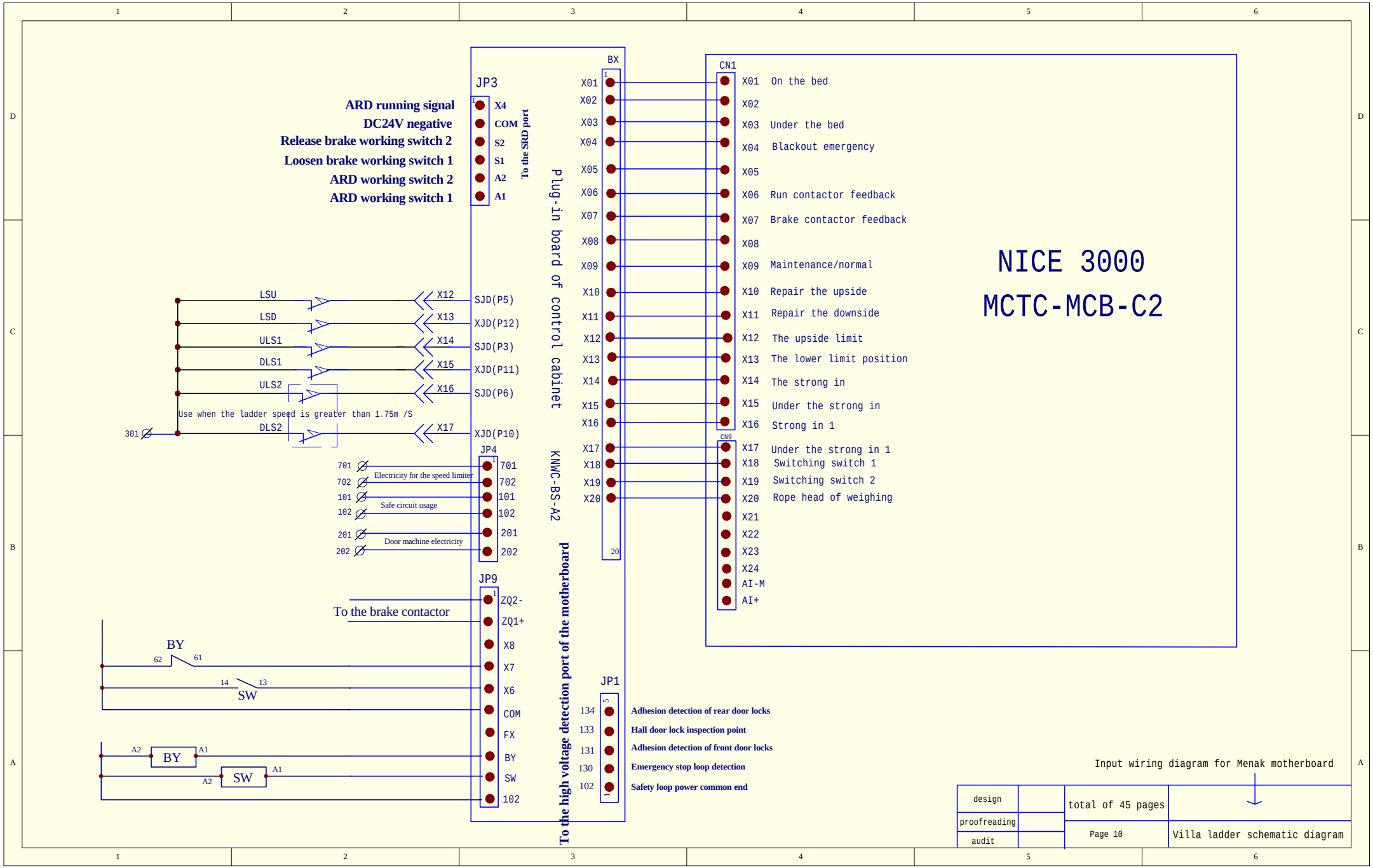
design		total of 45 pages	Safety circuit
proofreading		Page 11	Villa ladder schematic diagram
audit			

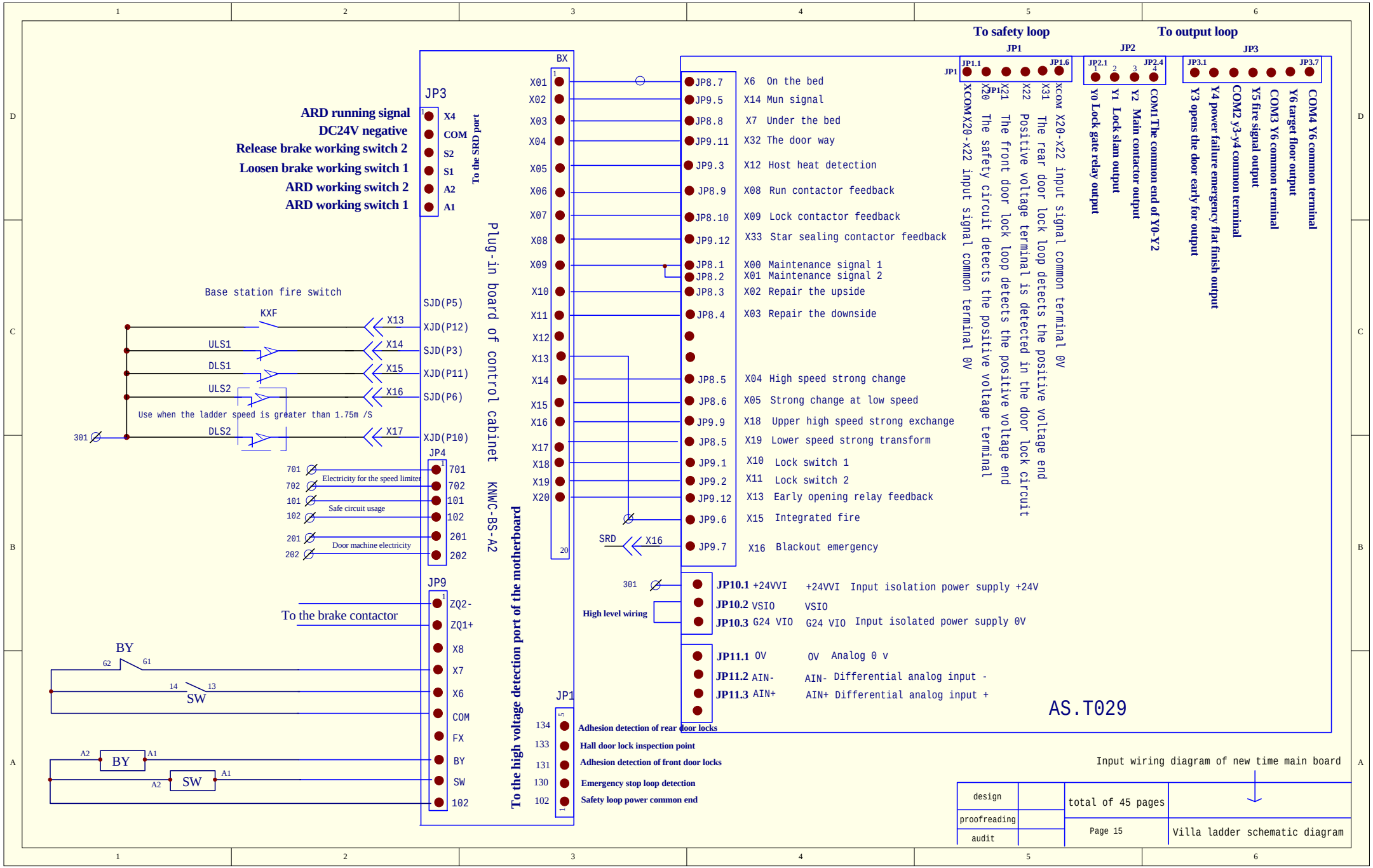


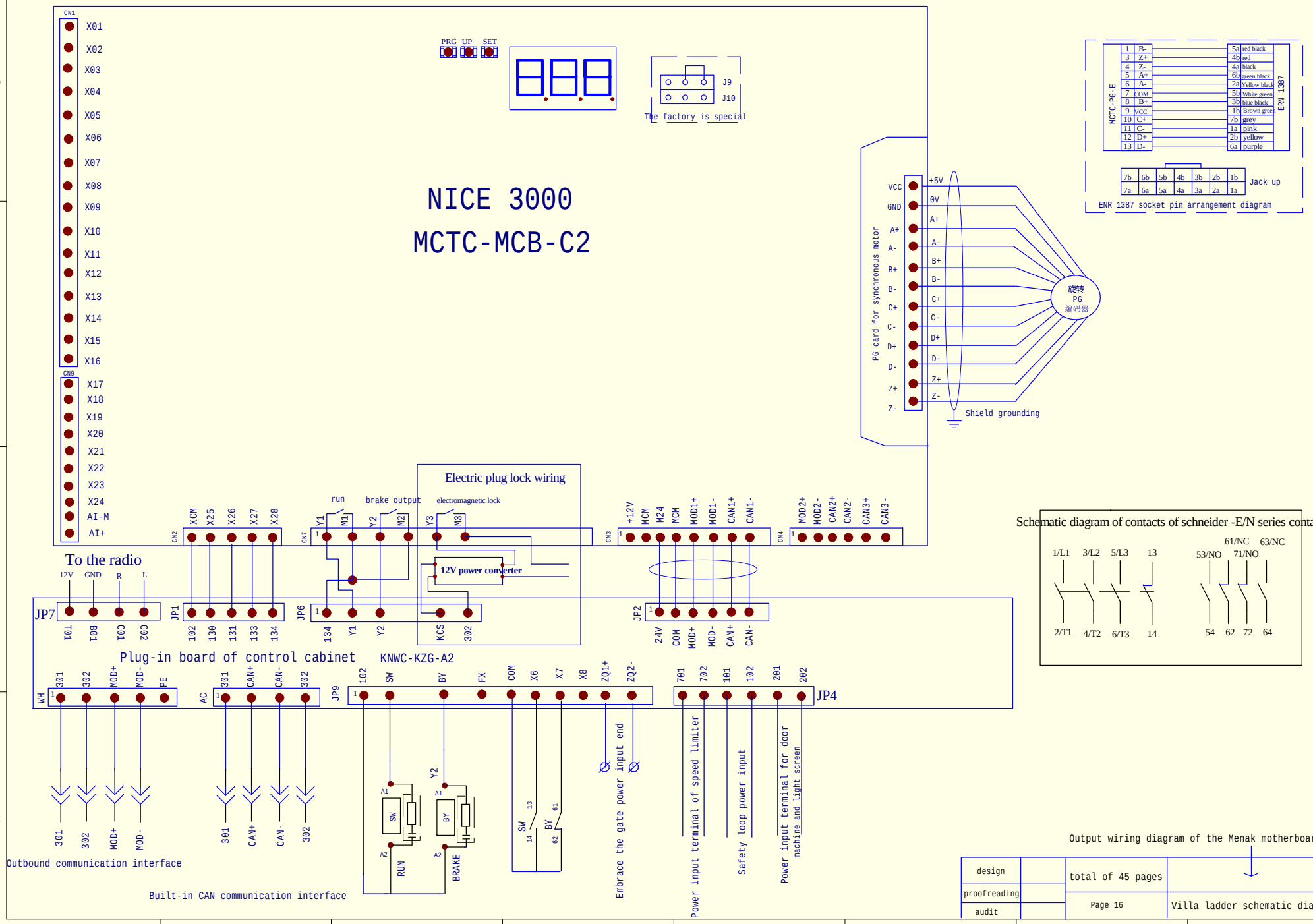
design		total of 45 pages	Ports of the Menak motherboard
proofreading		Page 12	Villa ladder schematic diagram
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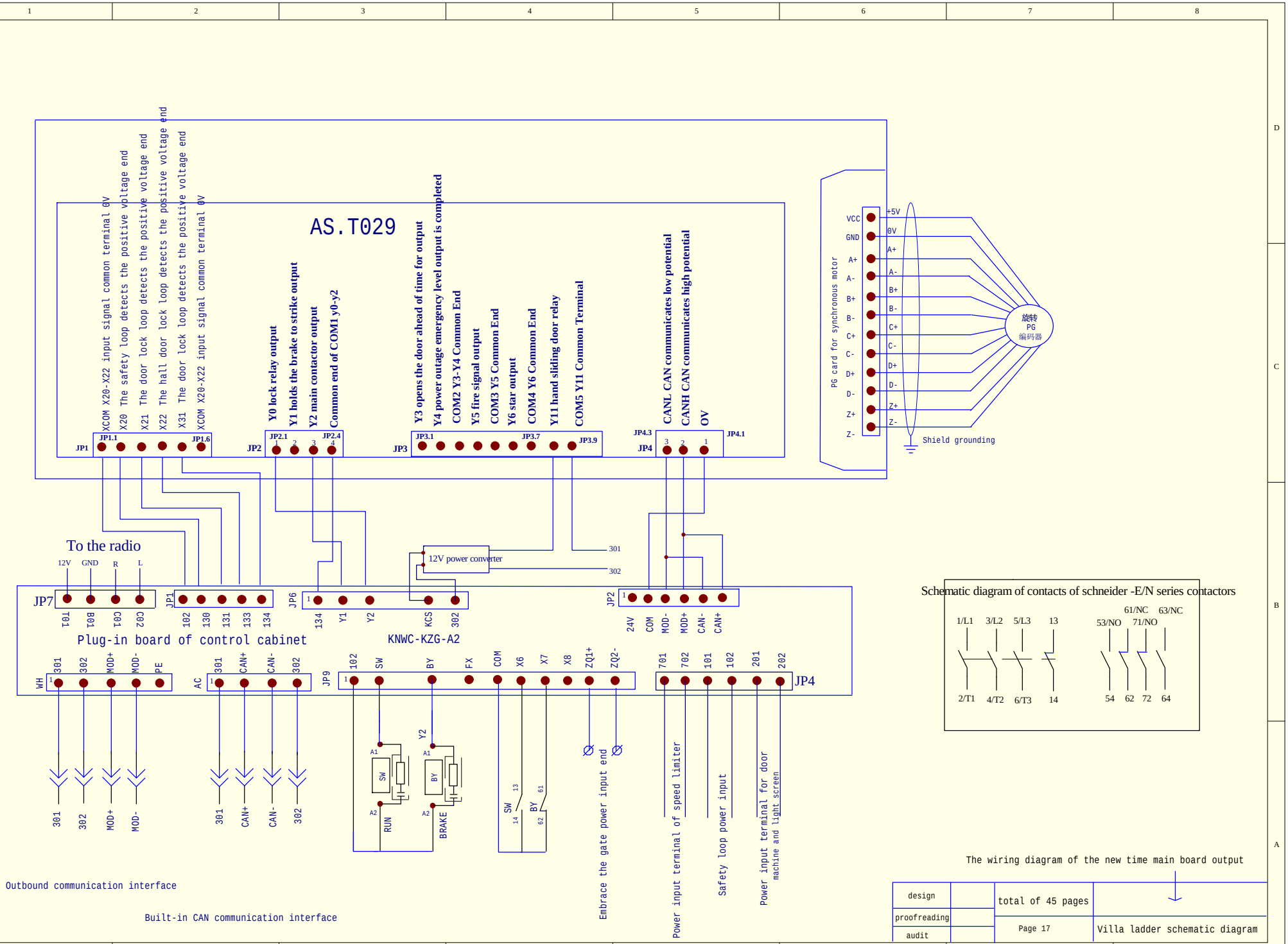
Ports diagram of new time main board

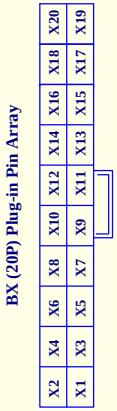
design		total of 45 pages	
proofreading		Page 13	Villa ladder schematic diagram
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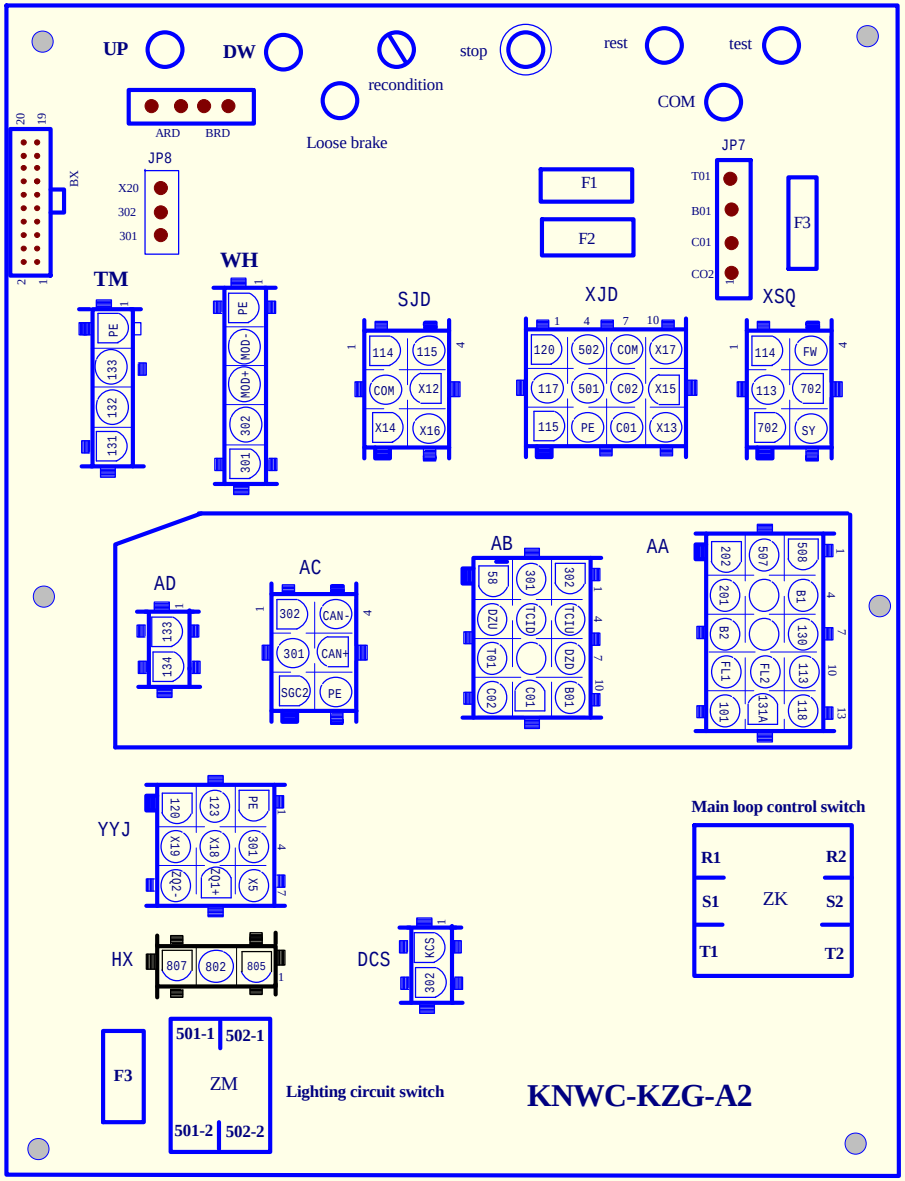

ARD running signal
DC24V negative
Release brake working switch 2
Loosen brake working switch 1
ARD working switch 2
ARD working switch 1
JP3
X4
COM
S2
S1
A2
A1
To the SRD port
Plug-in board of control cabinet
KNWC-BS-A2
BX
X01
X02
X03
X04
X05
X06
X07
X08
X09
X10
X11
X12
X13
X14
X15
X16
X17
X18
X19
X20
20
CN1
X01 On the bed
X02
X03 Under the bed
X04 Blackout emergency
X05
X06 Run contactor feedback
X07 Brake contactor feedback
X08
X09 Maintenance/normal
X10 Repair the upside
X11 Repair the downside
X12 The upside limit
X13 The lower limit position
X14 The strong in
X15 Under the strong in
X16 Strong in 1
CN9
X17 Under the strong in 1
X18 Switching switch 1
X19 Switching switch 2
X20 Rope head of weighing
X21
X22
X23
X24
AI-M
AI+
NICE 3000
MCTC-MCB-C2
LSU
LSD
ULS1
DLS1
ULS2
DLS2
X12
X13
X14
X15
X16
X17
SJD(P5)
XJD(P12)
SJD(P3)
XJD(P11)
SJD(P6)
XJD(P10)
Use when the ladder speed is greater than 1.75m /S
301
JP4
701
702
101
102
201
202
Electricity for the speed limiter
Safe circuit usage
Door machine electricity
JP9
ZQ2-
ZQ1+
X8
X7
X6
COM
FX
BY
SW
102
To the brake contactor
BY
62
61
14
13
SW
A2
BY
A1
A2
SW
A1
JP1
134
133
131
130
102
Adhesion detection of rear door locks
Hall door lock inspection point
Adhesion detection of front door locks
Emergency stop loop detection
Safety loop power common end
To the high voltage detection port of the motherboard
Input wiring diagram for Menak motherboard
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Villa ladder schematic diagram


To safety loop
To output loop
JP1
JP2
JP3
JP1.1
JP1.6
JP2.1
JP2.4
JP3.1
JP3.7
XCOM X20-x22 input signal common terminal 0V
X20 The safety circuit detects the positive voltage terminal
X21 The front door lock loop detects the positive voltage end
X22 Positive voltage terminal is detected in the door lock circuit
X31 The rear door lock loop detects the positive voltage end
Y0 Lock gate relay output
Y1 Lock slam output
Y2 Main contactor output
COM1 The common end of Y0-Y2
Y3 opens the door early for output
Y4 power failure emergency flat finish output
COM2 y3-y4 common terminal
Y5 fire signal output
COM3 Y6 common terminal
Y6 target floor output
COM4 Y6 common terminal
ARD running signal
DC24V negative
Release brake working switch 2
Loosen brake working switch 1
ARD working switch 2
ARD working switch 1
JP3
X4
COM
S2
S1
A2
A1
To the SRD port
Plug-in board of control cabinet KNWC-BS-A2
BX
X01
X02
X03
X04
X05
X06
X07
X08
X09
X10
X11
X12
X13
X14
X15
X16
X17
X18
X19
X20
20
JP8.7 X6 On the bed
JP9.5 X14 Mun signal
JP8.8 X7 Under the bed
JP9.11 X32 The door way
JP9.3 X12 Host heat detection
JP8.9 X08 Run contactor feedback
JP8.10 X09 Lock contactor feedback
JP9.12 X33 Star sealing contactor feedback
JP8.1 X00 Maintenance signal 1
JP8.2 X01 Maintenance signal 2
JP8.3 X02 Repair the upside
JP8.4 X03 Repair the downside
JP8.5 X04 High speed strong change
JP8.6 X05 Strong change at low speed
JP9.9 X18 Upper high speed strong exchange
JP8.5 X19 Lower speed strong transform
JP9.1 X10 Lock switch 1
JP9.2 X11 Lock switch 2
JP9.12 X13 Early opening relay feedback
JP9.6 X15 Integrated fire
JP9.7 X16 Blackout emergency
SRD
X16
Base station fire switch
KXF
X13
XJD(P12)
ULS1
X14
SJD(P3)
DLS1
X15
XJD(P11)
ULS2
X16
SJD(P6)
Use when the ladder speed is greater than 1.75m /S
301
DLS2
X17
XJD(P10)
SJD(P5)
JP4
701
Electricity for the speed limiter
702
101
Safe circuit usage
102
201
Door machine electricity
202
JP9
ZQ2-
ZQ1+
To the brake contactor
X8
X7
X6
COM
FX
BY
SW
102
BY
62
61
14
13
SW
A2
BY
A1
A2
SW
A1
JP1
134
Adhesion detection of rear door locks
133
Hall door lock inspection point
131
Adhesion detection of front door locks
130
Emergency stop loop detection
102
Safety loop power common end
To the high voltage detection port of the motherboard
301
High level wiring
JP10.1 +24VVI +24VVI Input isolation power supply +24V
JP10.2 VSIO VSIO
JP10.3 G24 VIO G24 VIO Input isolated power supply 0V
JP11.1 0V 0V Analog 0 v
JP11.2 AIN- AIN- Differential analog input -
JP11.3 AIN+ AIN+ Differential analog input +
AS.T029
Input wiring diagram of new time main board
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Villa ladder schematic diagram


NICE 3000
MCTC-MCB-C2
CN1
X01
X02
X03
X04
X05
X06
X07
X08
X09
X10
X11
X12
X13
X14
X15
X16
CN9
X17
X18
X19
X20
X21
X22
X23
X24
AI-M
AI+
PRG UP SET
J9
J10
The factory is special
MCTC-PG-E
ENR 1387
Jack up
ENR 1387 socket pin arrangement diagram
PG card for synchronous motor
VCC
GND
A+
A-
B+
B-
C+
C-
D+
D-
Z+
Z-
+5V
0V
旋转 PG 编码器
Shield grounding
Electric plug lock wiring
run
brake output
electromagnetic lock
12V power converter
To the radio
12V GND R L
JP7
JP1
JP6
JP2
JP4
JP9
Plug-in board of control cabinet KNWC-KZG-A2
WH
AC
Outbound communication interface
Built-in CAN communication interface
RUN
BRAKE
Embrace the gate power input end
Power input terminal of speed limiter
Safety loop power input
Power input terminal for door machine and light screen
Schematic diagram of contacts of schneider -E/N series contactors
1/L1 3/L2 5/L3 13 61/NC 63/NC
53/NO 71/NO
2/T1 4/T2 6/T3 14 54 62 72 64
Output wiring diagram of the Menak motherboard
design
proofreading
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total of 45 pages
Page 16
Villa ladder schematic diagram


AS.T029
JP1
JP1.1
JP1.6
XCOM X20-X22 input signal common terminal 0V
X20 The safety loop detects the positive voltage end
X21 The door lock loop detects the positive voltage end
X22 The hall door lock loop detects the positive voltage end
X31 The door lock loop detects the positive voltage end
XCOM X20-X22 input signal common terminal 0V
JP2
JP2.1
JP2.4
Y0 lock relay output
Y1 holds the brake to strike output
Y2 main contactor output
Common end of COM1 y0-y2
JP3
JP3.1
JP3.9
Y3 opens the door ahead of time for output
Y4 power outage emergency level output is completed
COM2 Y3-Y4 Common End
Y5 fire signal output
COM3 Y5 Common End
Y6 star output
COM4 Y6 Common End
Y11 hand sliding door relay
COM5 Y11 Common Terminal
JP4
JP4.3
JP4.1
CANL CAN communicates low potential
CANH CAN communicates high potential
OV
PG card for synchronous motor
VCC
GND
A+
A-
B+
B-
C+
C-
D+
D-
Z+
Z-
+5V
0V
旋转
PG
编码器
Shield grounding
To the radio
12V
GND
R
L
12V power converter
301
302
JP7
JP1
JP6
JP2
TO1
BO1
CO1
CO2
102
130
131
133
134
Y1
Y2
KCS
24V
COM
MOD-
MOD+
CAN-
CAN+
Plug-in board of control cabinet
KNWC-KZG-A2
WH
AC
JP9
PE
SW
BY
FX
COM
X6
X7
X8
ZQ1+
ZQ2-
701
702
101
JP4
201
202
RUN
BRAKE
Embrace the gate power input end
Power input terminal of speed limiter
Safety loop power input
Power input terminal for door machine and light screen
Outbound communication interface
Built-in CAN communication interface
Schematic diagram of contacts of schneider -E/N series contactors
1/L1
3/L2
5/L3
13
2/T1
4/T2
6/T3
14
53/NO
61/NC
71/NO
63/NC
54
62
72
64
The wiring diagram of the new time main board output
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Villa ladder schematic diagram





SJD Upper well signal line

drawing number

	plug-in	Cable number		functional description
SJD	SJD-P01	1	114	lines superiors
	SJD-P02	2	301	common port
	SJD-P03	3	X14	Upchange speed signal
	SJD-P04	4	115	lines superiors
	SJD-P05	5	X12	upper limit
	SJD-P06	6	X16	Strong by 1

XJD Downhole signal line

drawing number

	plug-in	Cable number		functional description
XJD	XJD-P01	1	120	safety circuit
	XJD-P02	2	117	Emergency motor circuit
	XJD-P03	3	115	safety circuit
	XJD-P04	4	508	Bottom pit socket power supply N
	XJD-P05	5	507	Bottom pit socket power L
	XJD-P06	olivine	PE	ground connection
	XJD-P07	6	301	Check point common end
	XJD-P08	7	C02	Intercom signal line L
	XJD-P09	8	C01	Intercom signal line R
	XJD-P10	9	X17	Turn down speed 1 signal line
	XJD-P11	10	X15	Turn down the speed signal line
	XJD-P12	11	X13	Lower limit signal line

YYJ Tractor signal line

drawing number

	plug-in	Cable number		functional description
YYJ	YYJ-P01	olivine	PE	ground
	YYJ-P02	1	123	safety circuit
	YYJ-P03	2	120	safety circuit
	YYJ-P04	3	301	Detection common end
	YYJ-P05	4	X18	Holding brake 1 test
	YYJ-P06	5	X19	Holding brake 2 test
	YYJ-P07	6	X5	Thermosensitive switch detection
	YYJ-P08	7	ZQ1+	Hold the positive pole of the brake coil
	YYJ-P09	8	ZQ2-	The negative pole of the brake coil

WH Outgoing line communication

drawing number

	cabinet plug-in	Cable number		functional description
WH	WH-P01	shield	PE	grounding
	WH-P02	1	MOD-	Serial communication low level
	WH-P03	2	MOD+	Serial communication high level
	WH-P04	3	302	DC24V negative
	WH-P05	4	301	DC24V positive

TM Hall door lock line

drawing number

	plug-in	Cable number		functional description
TM	TM-P01	olivine	PE	ground
	TM-P02	1	133	Lock end of rear hall
	TM-P03	2 2	132	Lock end of front hall
	TM-P04	1	131	Front hall door lock starting point

XSQ Speed limiter switch line

drawing number

	plug-in	Cable number		functional description
XSQ	XSQ-P01	1	114	Speed limiter switching circuit
	XSQ-P02	2	113	Speed limiter switching circuit
	XSQ-P03	3	702	Reset Common End
	XSQ-P04	4	FW	reset line
	XSQ-P05	5	702	Test common line
	XSQ-P06	6	SY	test wire

DK Pit inspection box signal line

drawing number

	plug-in	Cable number		functional description
DK	DK-P01	1	120	safety circuit
	DK-P02	2	117	Emergency motor circuit
	DK-P03	3	116	safety circuit
	DK-P04	4	508	Bottom pit socket power supply N
	DK-P05	5	507	Bottom pit socket power L
	DK-P06		PE	ground
	DK-P07	6		
	DK-P08	7	C02	Intercom signal line L
	DK-P09	8	C01	Intercom signal line R

DCS Electric plug lock cable

drawing number

	plug-in	Cable number		functional description
DCS	DCS-P01	1	KCS	Electricity mortise lock + 12 v
	DCS-P02	2	302	Electricity mortise lock 12 v -

HX Well light line

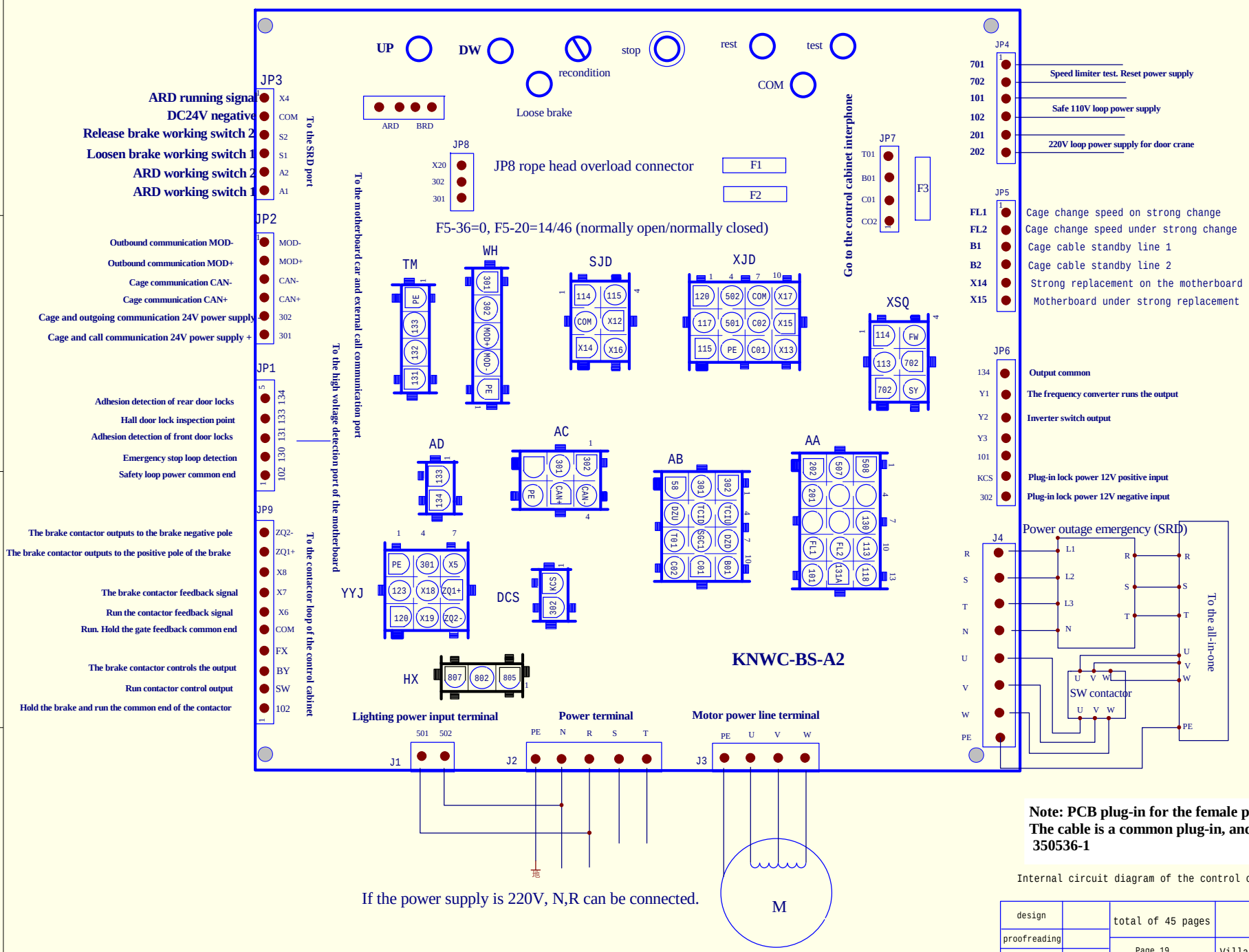
drawing number

	plug-in	Cable number		functional description
HX	HX-P01	1	805	Dual control line for well lighting
	HX-P02	2	802	Zero line of wellway illumination
	HX-P03	3	807	Dual control line for well lighting

Note: PCB plug-in for the female plug-in, male pin The cable is a common plug-in, and the pin model is 350536-1

External circuit diagram of the control cabinet plug-in board

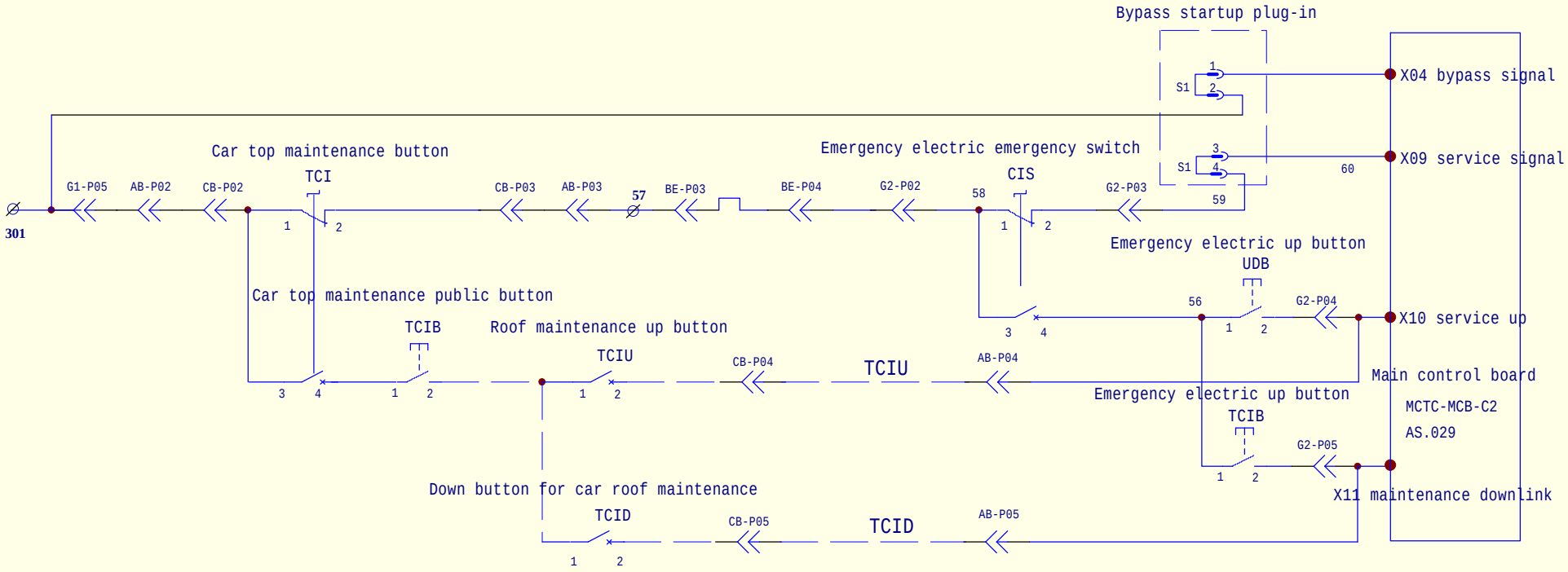
design		total of 45 pages	
proofreading		Page 18	Villa ladder schematic diagram
audit			



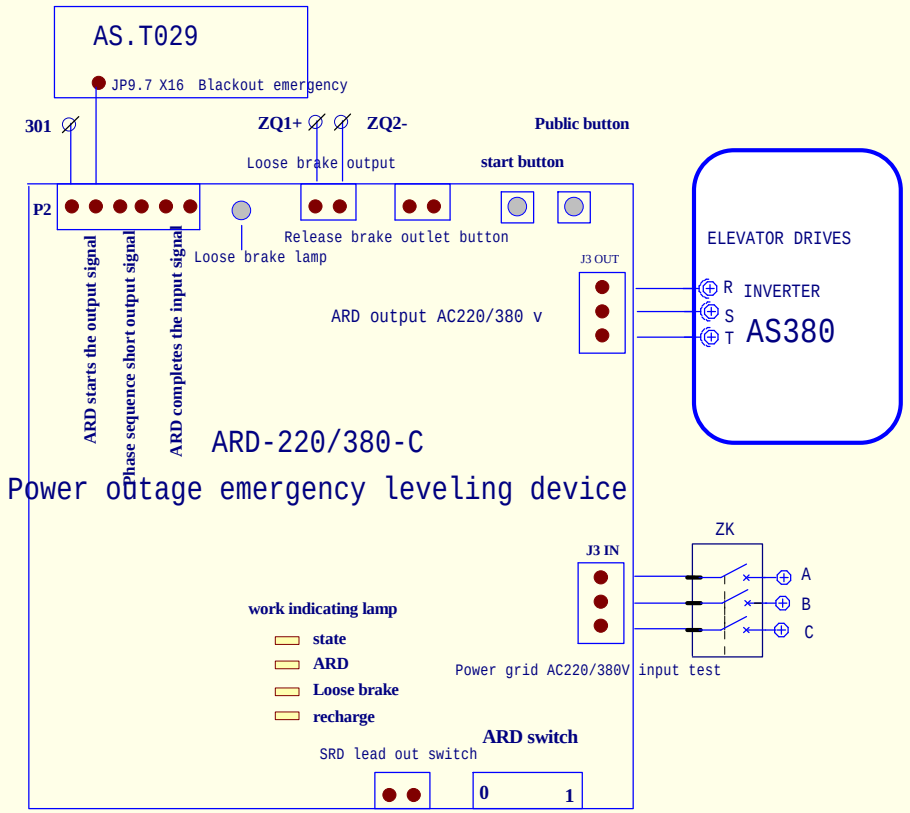
Note: PCB plug-in for the female plug-in, male pin The cable is a common plug-in, and the pin model is 350536-1

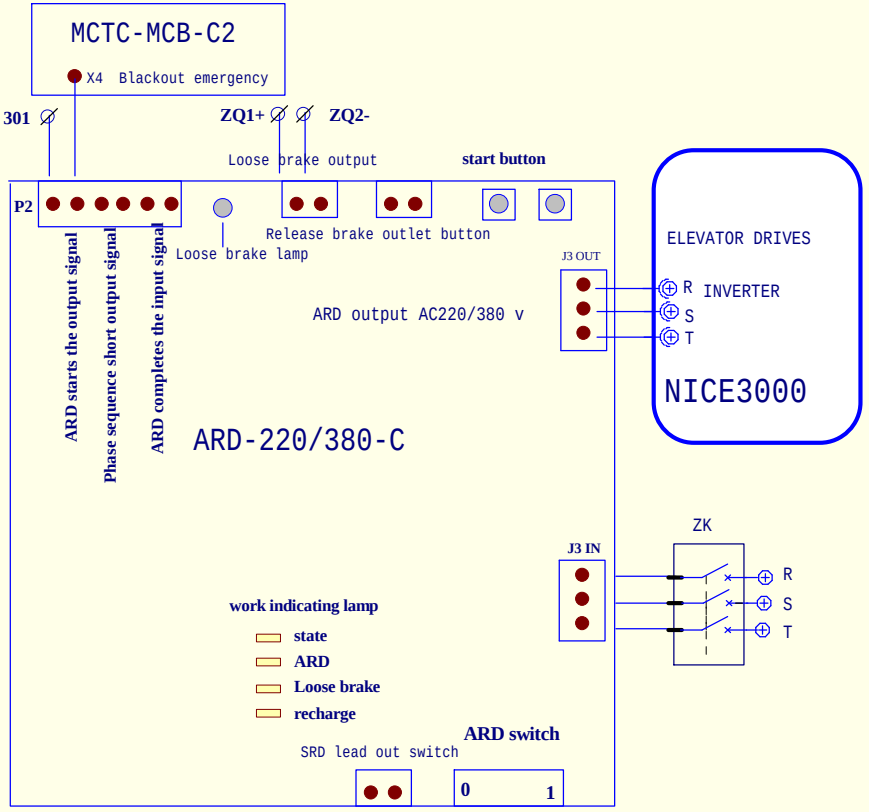
Internal circuit diagram of the control cabinet plug-in board

design		total of 45 pages	
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design		total of 45 pages	Overhaul circuit
proofreading		Page 20	Villa ladder schematic diagram
audit			

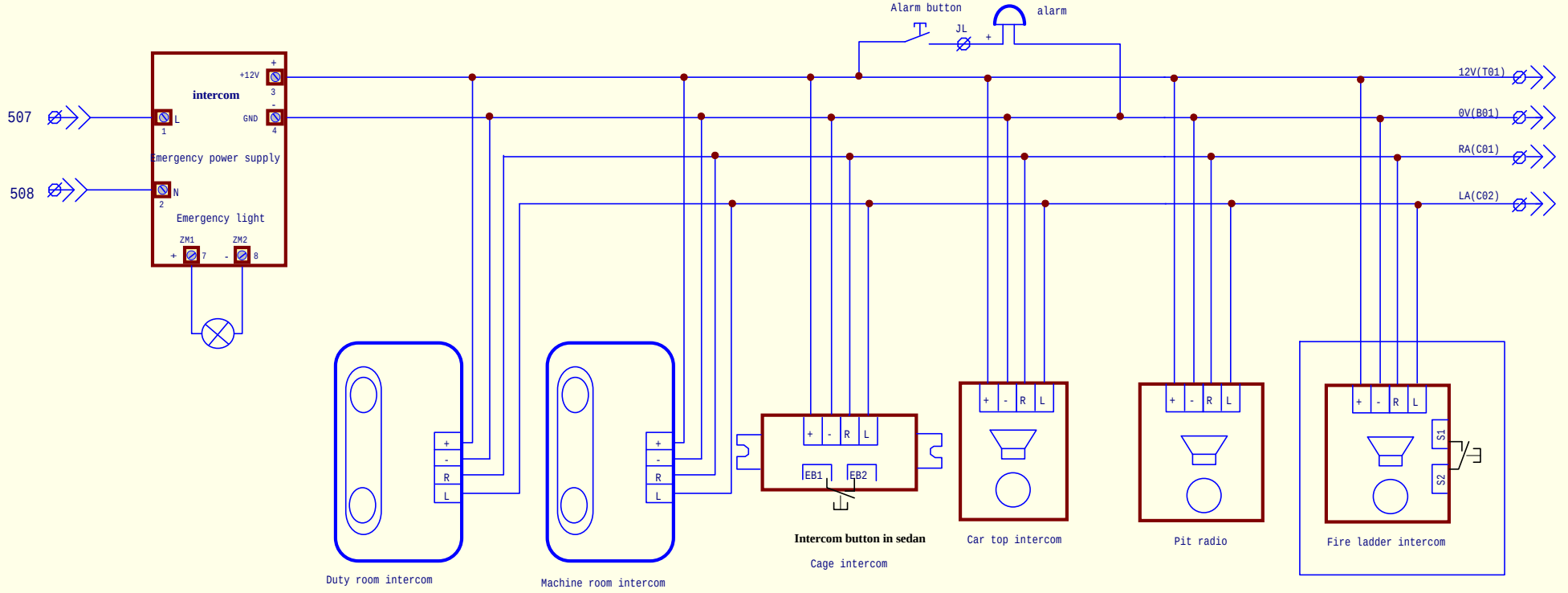




Status indicator light description:
Red indicator light:
Note: ARD and EPS functions can be switched when it is normally on
2. Flash once and stop for 2 seconds: the voltage is too low. Note: charge for more than 8 hours
3. Flash for 2 times and stop for 2 seconds: battery overcurrent protection Note: excessive load or other faults
4. Flash for 3 times and stop for 2 seconds: excessive load protection Remark: excessive load or other faults
Flash 4 times and stop for 2 seconds: the output voltage is too low. Note: it is caused by excessive load, charge or replace the battery
5. Flash 5 times and stop for 2 seconds: Overheat protection Note: pause use for 1-3 minutes
ARD green indicator light:
1. Normal light: ARD can be started. Note: the flicker frequency can be changed according to the output load
Description of blue indicator light for loosening brake:
1. Normal light: EPS can be started Note: Fast flash is full load, slow flash is down load
Charge orange indicator
1. Normal light: the battery has been fully charged Note: Slow flash: the battery has 90% power, fast flash: the battery has less than 90% power.
2. Flash 1 and stop for 2 seconds: Battery protection state Note: Slow flash: 90% battery power, fast flash: less than 90% battery power.

Matters needing attention
Shutdown dormancy state: when there is no external power and no operation, SRD will automatically shut down after waiting 5 minutes.
Power on method after power off:
1. When there is no mains power, press the button to release the power supply.
2. There is a voltage in the external mains detected
Before ARD inverter or starting inverter, 2 buttons of the power supply can be pressed and released to stop ARD inverter.
ARD and EPS cannot work at the same time.
If EPS exceeds the set time for 15 seconds during use, press the button again; ARD exceeds the set time for 2 minutes, then restart the boot step.
Buzzer: Buzzer is called 1 time when the boot self check is normal
Loosen switch power output: 2 beeps per second
When ready to enter ARD output: 1 sound per second; 2 sound per second for ARD output
In case of failure: beep synchronously with the failure light

design		total of 45 pages	SRD wiring diagram
proofreading		Page 20	Villa ladder schematic diagram
audit			

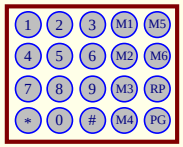


Five-way walkie - talkie circuit diagram

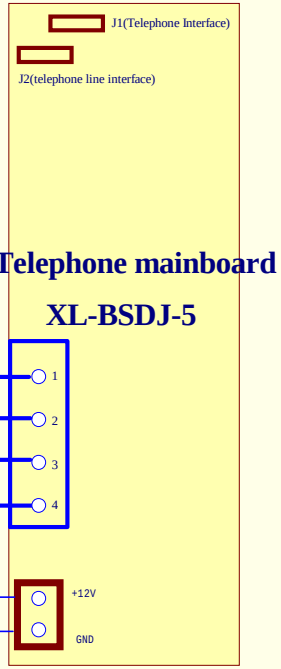
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proofreading		Page 22	Villa ladder schematic diagram
audit			

Setting button (with 300mm wiring)

Model: XL - 1201-5 x

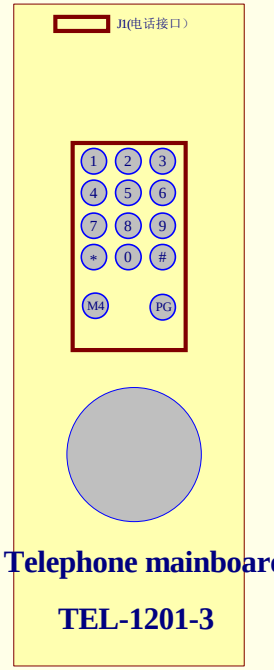


300 mm line



Telephone mainboard

XL-BSDJ-5

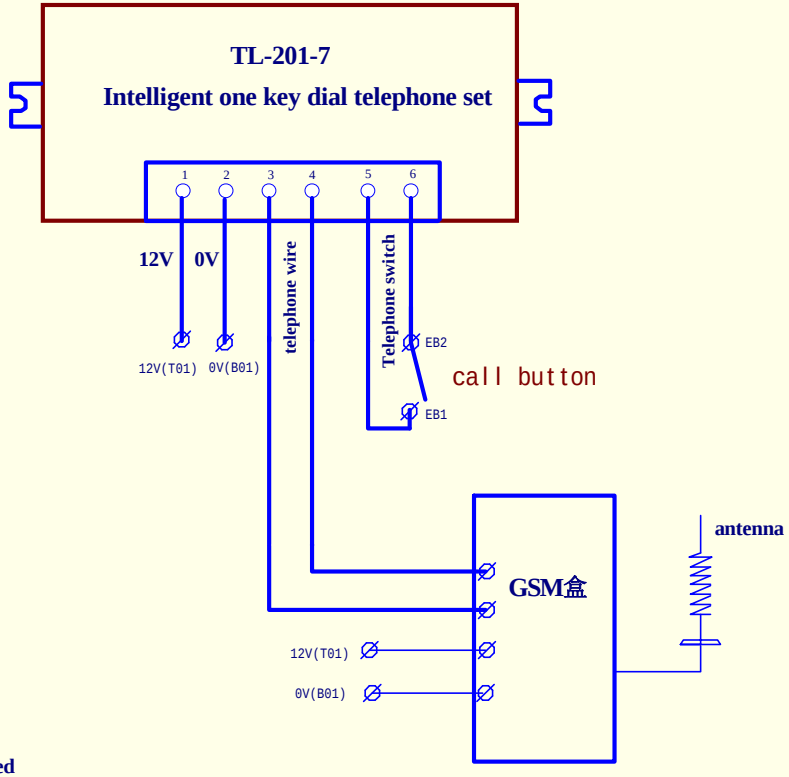


Telephone mainboard

TEL-1201-3

Note: The interphone is a time-delay interphone embedded

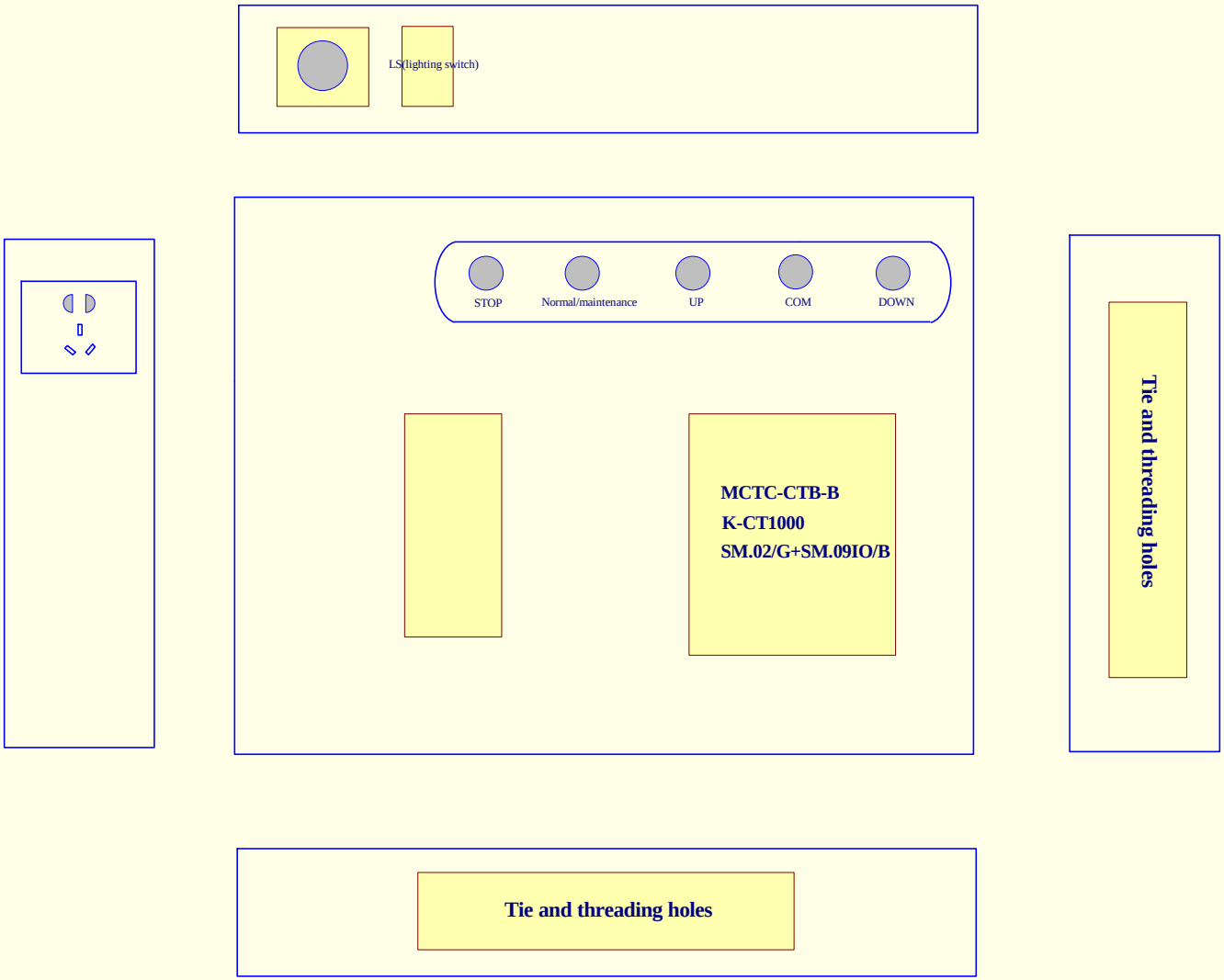
in the control panel. The buttons are placed outside



Remark: The intercom is a built-in intercom, and the speaker and microphone are inlaid out

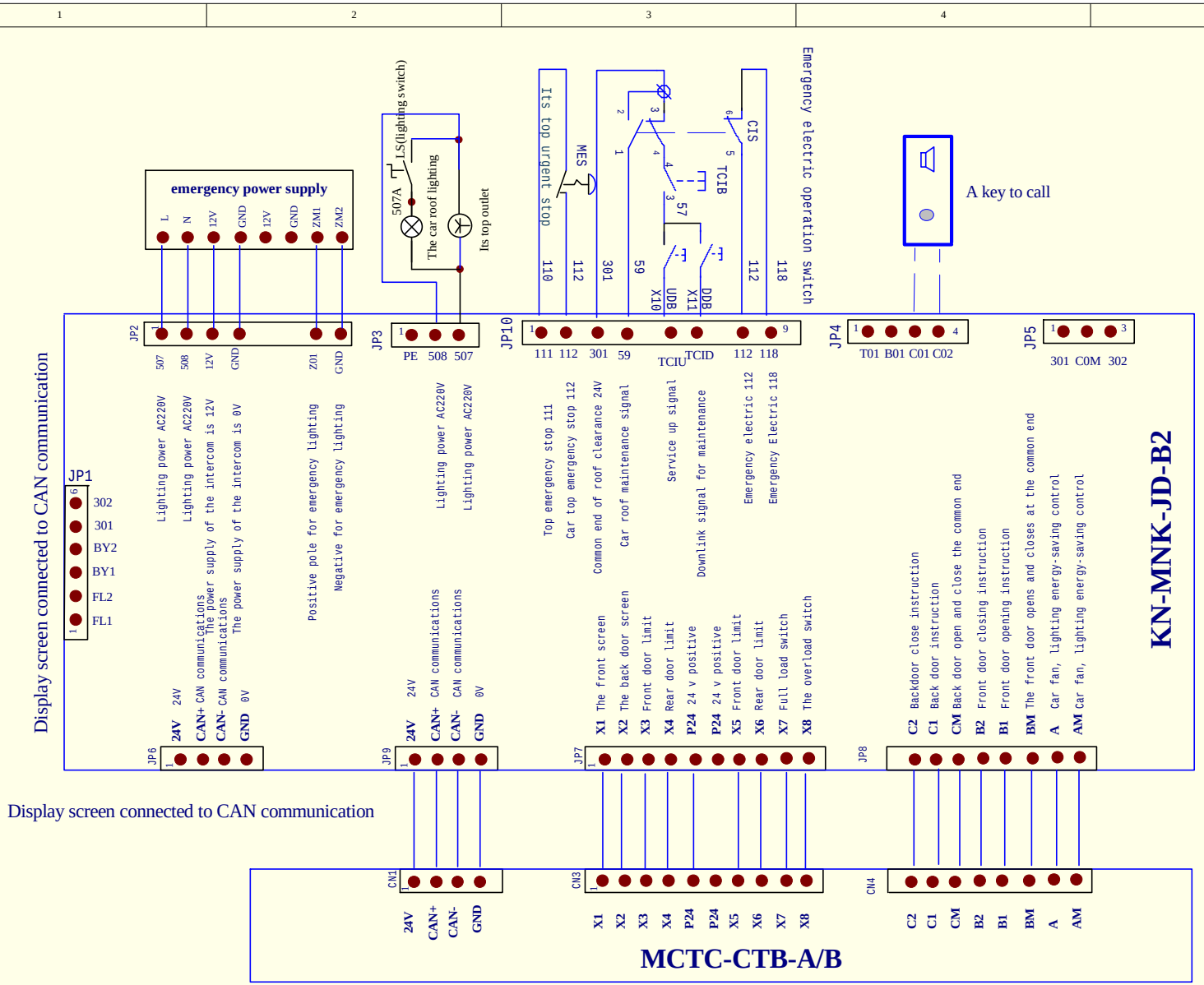
Telephone system circuit diagram

design		total of 45 pages	
proofreading		Page 23	Villa ladder schematic diagram
audit			



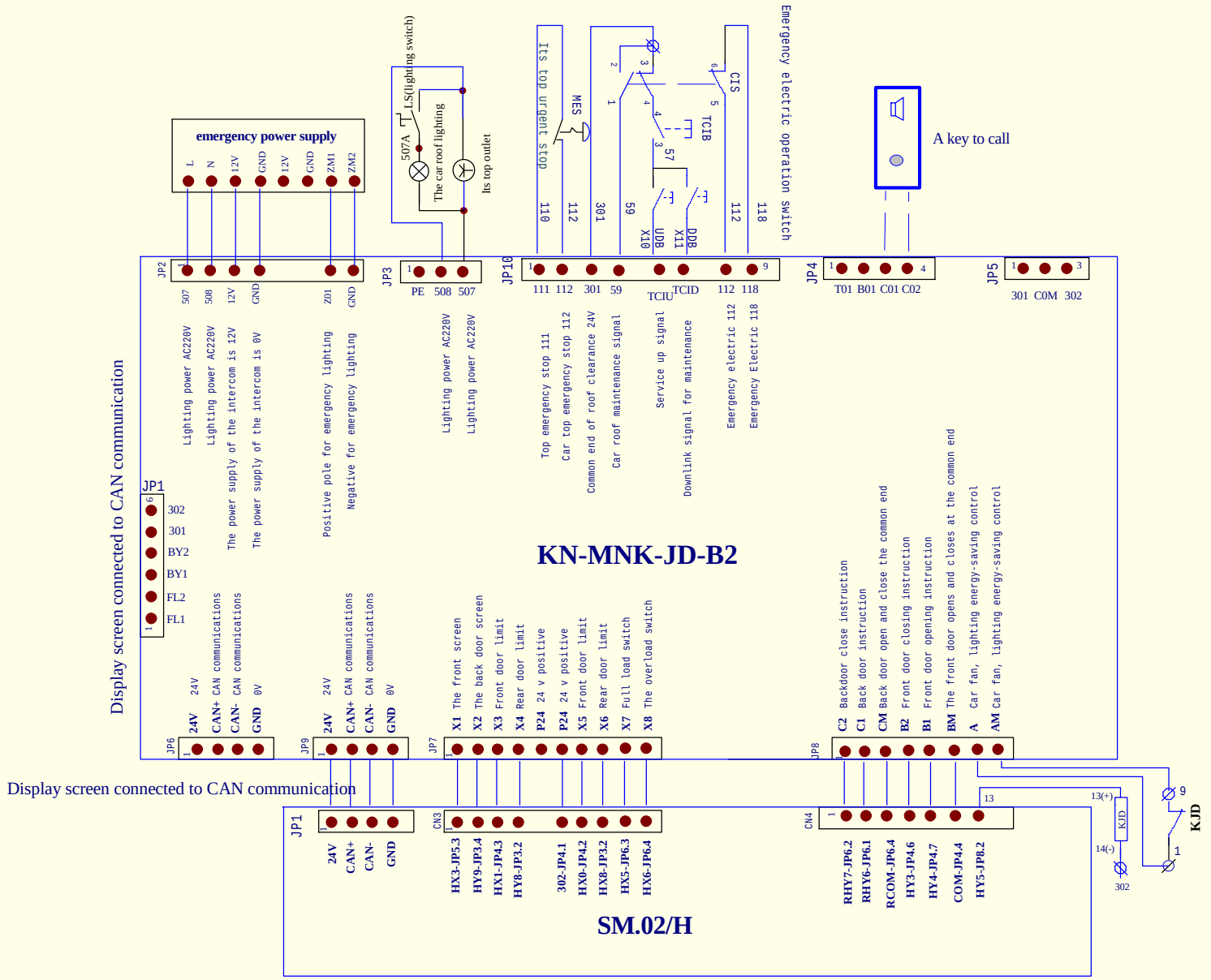
Layout drawing of the inspection box on the roof

design		total of 45 pages	
proofreading		Page 24	Villa ladder schematic diagram
audit			



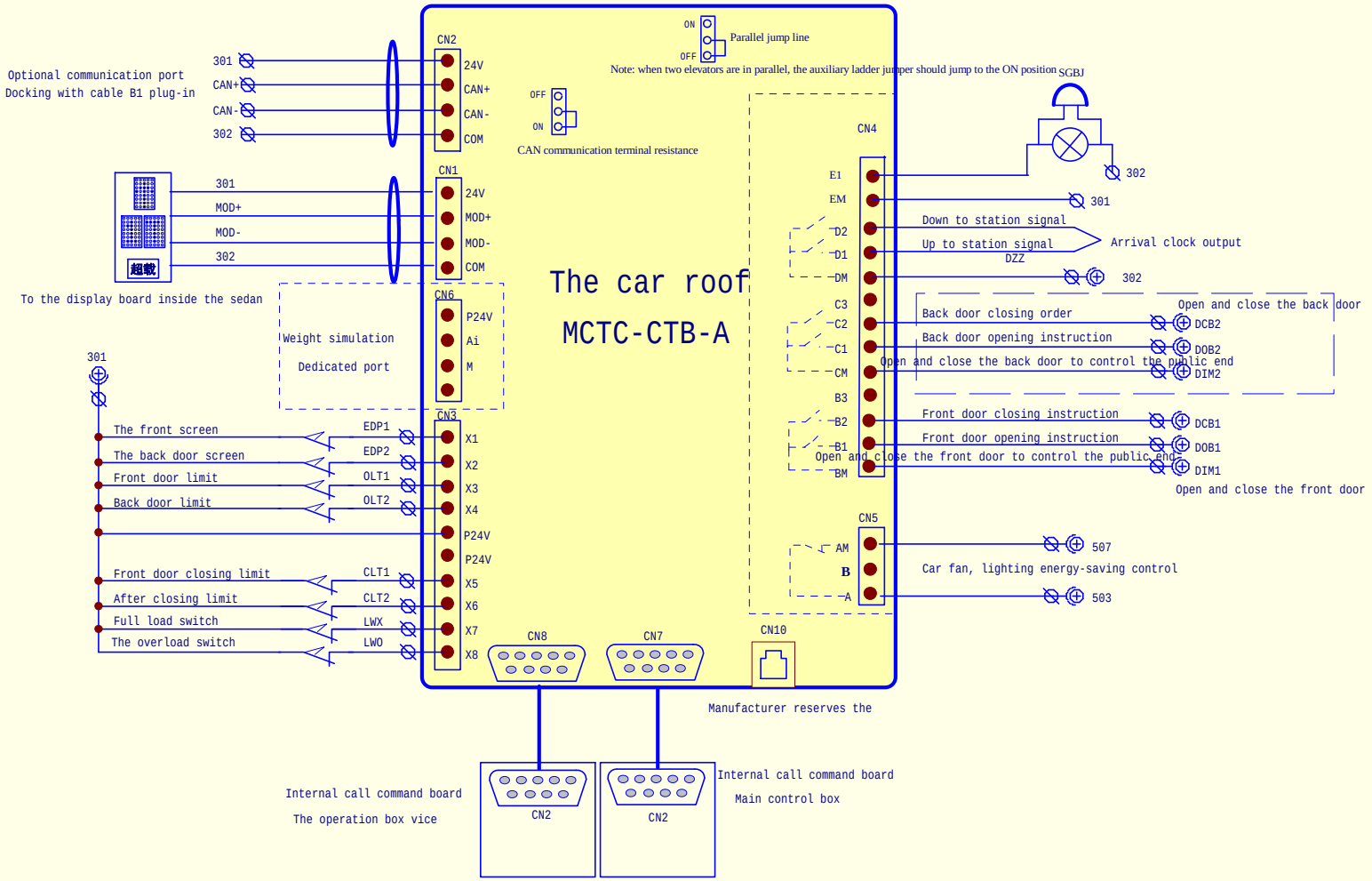
Wiring diagram of the maintenance box on the roof of the Menak car

design		total of 45 pages	
proofreading		Page 25	Villa ladder schematic diagram
audit			



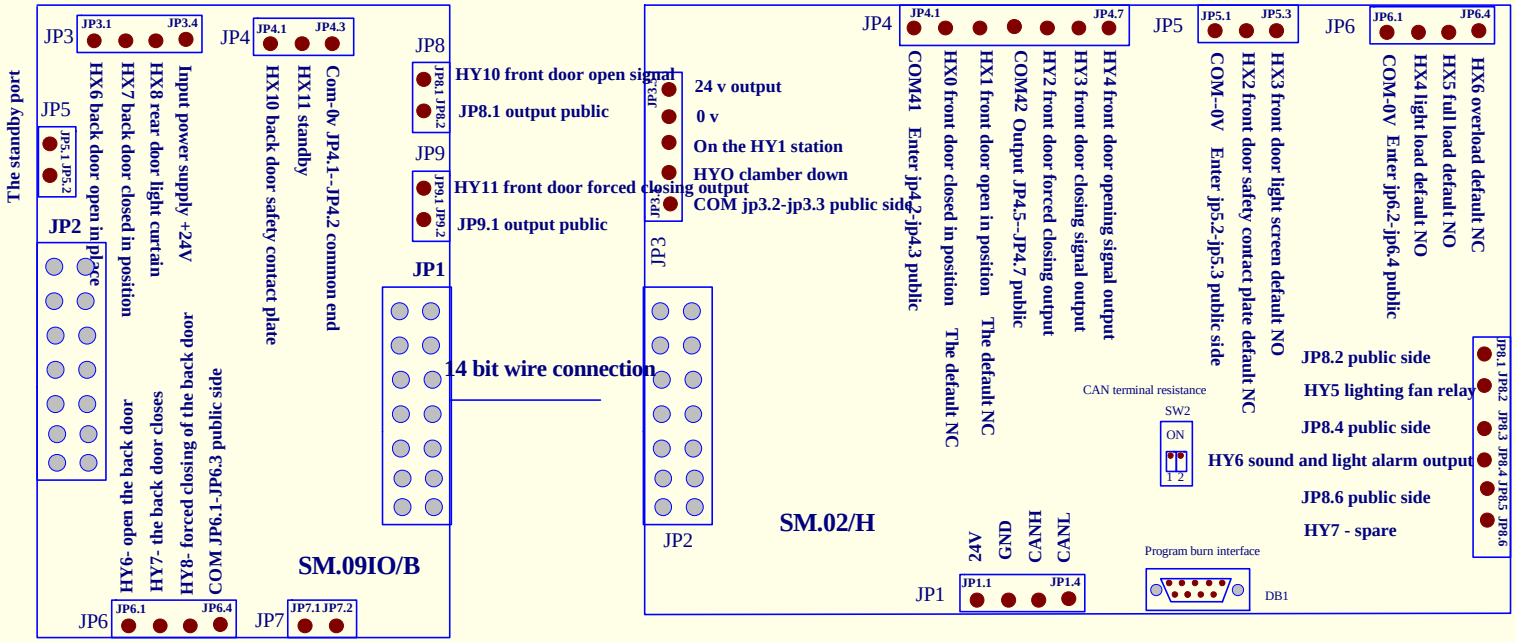
Wiring diagram of the maintenance box on the roof of the car of Xinshida

design		total of 45 pages	
proofreading		Page 26	Villa ladder schematic diagram
audit			



The roof control panel of the Menak sedan

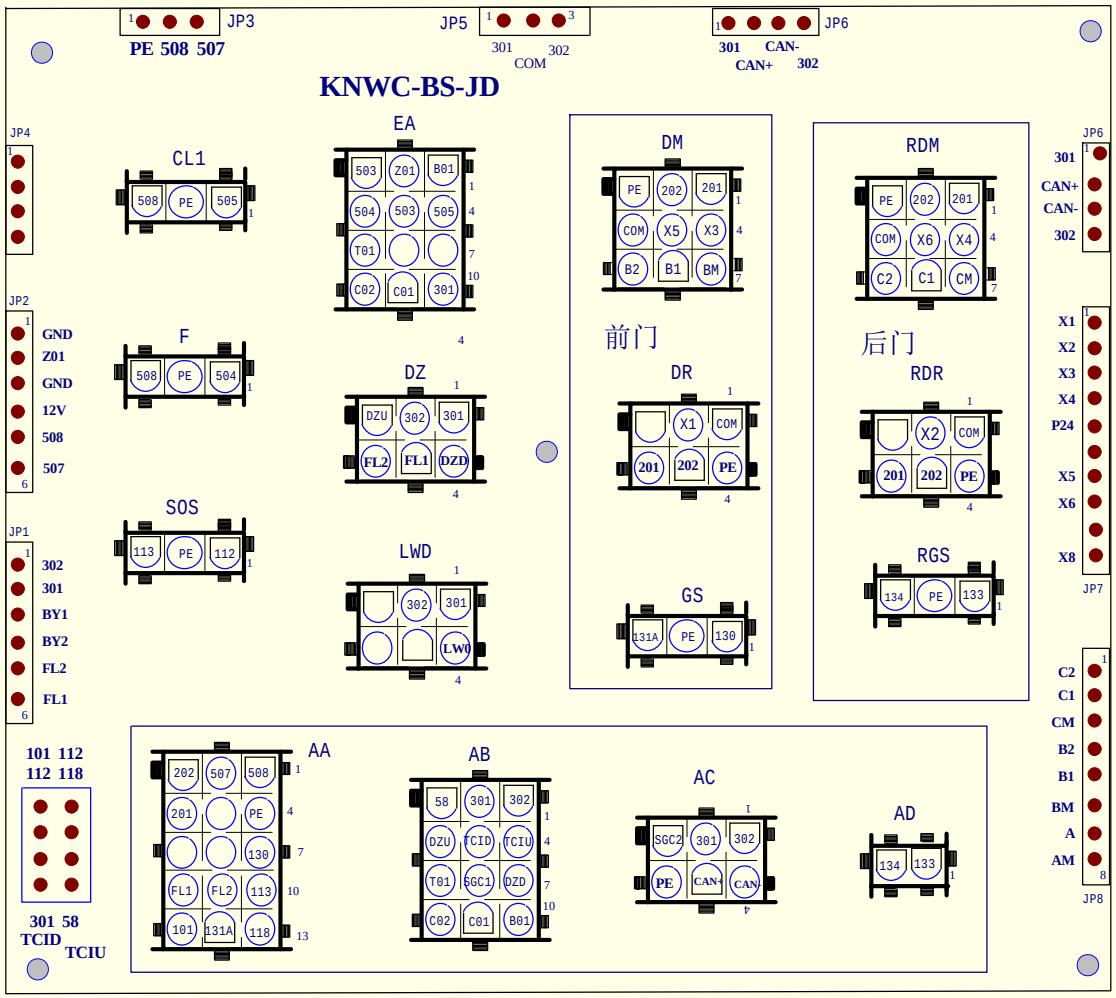
design		total of 45 pages	
proofreading		Page 27	Villa ladder schematic diagram
audit			



The control panel on the roof of the car

design		total of 45 pages	
proofreading		Page 28	Villa ladder schematic diagram
audit			

CAN通讯显示器



DM Front door signal line drawing number / Cable number

Access box plug-in				Functional description
DM	DM-P01	1	201	Door engine power supply L
	DM-P02	2	202	Door engine power supply N
	DM-P03	PE	PE	ground
	DM-P04	4	OLT1	Open the door limit
	DM-P05	5	CLT1	Close the door limit
	DM-P06	6	301	**Switch threshold bit common end**
	DM-P07	7	DIM1	**Open and close the public end**
	DM-P08	8	DOB1	Open the door instruction
	DM-P09	9	DCB1	Closing instructions

RDM Rear door engine signal line drawing number / Cable number

Access box plug-in				Functional description
RDM	RDM-P01	1	201	Door engine power supply L
	RDM-P02	2	202	Door engine power supply N
	RDM-P03	PE	PE	ground
	RDM-P04	4	OLT2	Open the door limit
	RDM-P05	5	CLT2	Close the door limit
	RDM-P06	6	301	**Switch threshold bit common end**
	RDM-P07	7	DIM2	**Open and close the public end**
	RDM-P08	8	DOB2	Open the door instruction
	RDM-P09	9	DCB2	Closing instructions

GS Door lock drawing number / Cable number

Control cabinet plug-in				Functional description
GS	GS-P01	1	130	The car door
	GS-P02	PE	PE	ground
	GS-P03	2	131A	The car door

RGS After the car door lock drawing number / Cable number

Access box plug-in				Functional description
RGS	RGS-P01	1	133	After the car door lock
	RGS-P02	PE	PE	ground
	RGS-P03	2	134	After the car door lock

LWD Weighing switch line drawing number / Cable number

Access box plug-in				Functional description
LWD	LWD-P01	1	301	power supply of weighing device is 24V
	LWD-P02	2	302	power supply of weighing device is 0V
	LWD-P03	3	LWX	With the signal
	LWD-P04	4	LWO	Overload signal
	LWD-P05			
	LWD-P06			

SOS Safety clamp switch wire drawing number / Cable number

Access box plug-in				Functional description
SOS	SOS-P01	1	112	Safety clamp switch
	SOS-P02	PE	PE	ground
	SOS-P03	2	113	Safety clamp switch

DZ Gate area signal line drawing number / Cable number

Access box plug-in				Functional description
DZ	DZ-P01	1	301	24V+
	DZ-P02	2	302	24V-
	DZ-P03	3	DZU	On the bed
	DZ-P04	4	DZD	Under the bed
	DZ-P05	5	FL1	On the bed again
	DZ-P06	6	FL2	Under the bed again

DR Front door light screen box signal line drawing number / Cable number

Access box plug-in				Functional description
DR	DR-P01	1		
	DR-P02	2	X1	Light screen signal 1
	DR-P03	3	com	com
	DR-P04	4	PE	ground
	DR-P05	5	202	Light screen power AC220V zero line
	DR-P06	6	201	Light screen power supply AC220V fire wire

RDR Rear door light screen box signal line drawing number / Cable number

Access box plug-in				Functional description
RDR	DR-P01	1		
	DR-P02	2	X2	Light screen signal 1
	DR-P03	3	com	com
	DR-P04	4	PE	ground
	DR-P05	5	202	Light screen power AC220V zero line
	DR-P06	6	201	Light screen power supply AC220V fire wire

GL1 Car lighting power cord drawing number / Cable number

Access box plug-in				Functional description
CLI	CLI-P01	1	505	Lighting L
	CLI-P02	PE	PE	ground
	CLI-P03	2	508	Lighting N

F Cage fan power cord drawing number / Cable number

Access box plug-in				Functional description
F	F-P01	1	504	Fan L
	F-P02	PE	PE	ground
	F-P03	2	508	Fan N

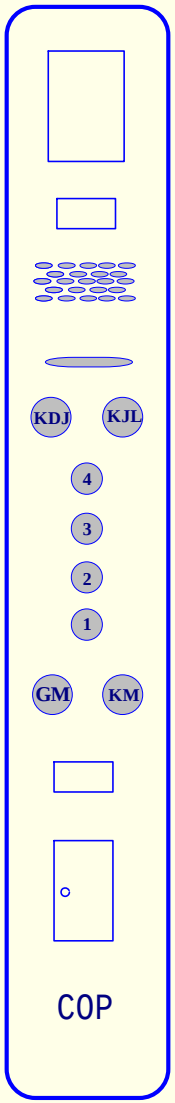
RTES Safety pin/safety window switch wire drawing number / Cable number

Access box plug-in				Functional description
RTES	RTES-P01	1	110	safety pin
	RTES-P02	PE	PE	ground
	RTES-P03	2	111	safety pin

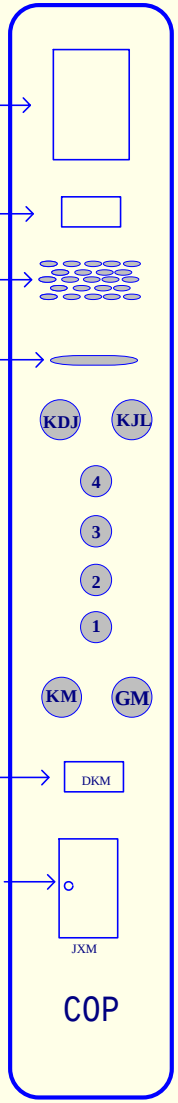
Interior view of the roof plug-in board

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Split type sub-control panel

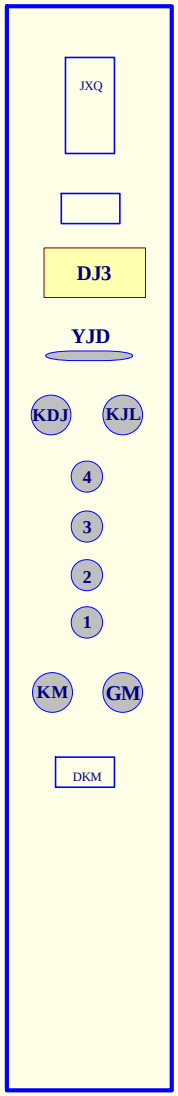


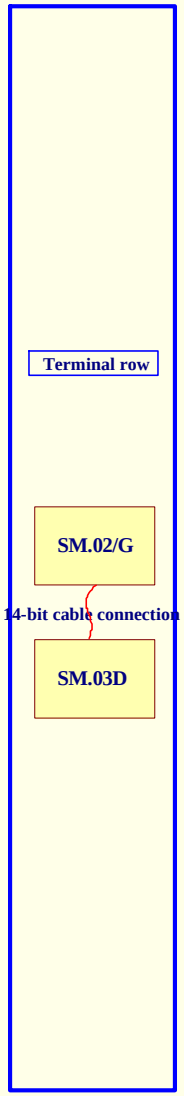
Split type main control panel



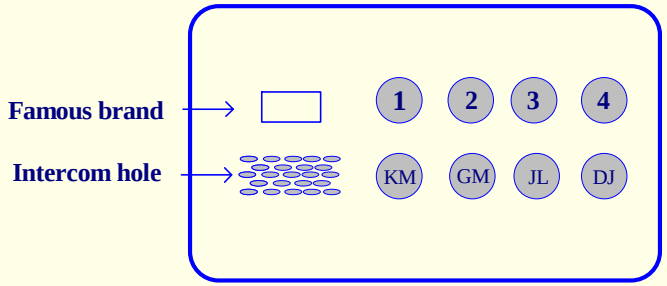
Control tray bottom box component layout

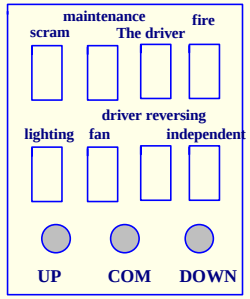
Wipe the layout of components on the vertical plate





Handicapped control panel





Passenger elevator access door switch layout, no access door, fan and lighting lock

Control panel component layout

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EA CES plug-in to the top of the car maintenance box

Corresponding to the drawing label

EA	EA-P01	black1	B01	Emergency lighting +	EA-P01	FA
	EA-P02	black2	Z01	Emergency lighting -	EA-P02	
	EA-P03	black3	503	Capsules lightingL	EA-P03	
	EA-P04	black4	505	Capsules lighting	EA-P04	
	EA-P05	black5	503	Capsules fan	EA-P05	
	EA-P06	black6	504	Capsules fan	EA-P06	
	EA-P07	black7	J01	The alarm switch	EA-P07	
	EA-P08	black8	J02	The alarm switch	EA-P08	
	EA-P09	black9	T01	intercom power supply is 12V	EA-P09	
	EA-P10	black10	301	Intercom power supply 0V	EA-P10	
	EA-P11	black11	C01	Intercom signal R	EA-P11	
	EA-P12	black12	C02	Intercom signal L	EA-P12	

CES	CES-P01	black1	101	The car to stop	CES-P01	DES
	CES-P02	black2	58	The car maintenance	CES-P02	
	CES-P03	black3	110	The car to stop	CES-P03	
	CES-P04	black4	59	The car maintenance	CES-P04	
	CES-P05	black5	TCIU	Repair the upside	CES-P05	
	CES-P06	black6	TCID	Repair the downside	CES-P06	

EA — RV12*0.75mm²+1*1.5mm²PE

CES — RV6*0.75mm²+1*1.5mm²PE

DZ3

C01 C01
C02 C02
+12V +12V
0V 0V
J01 J01
J02 J02
B01 B01
Z01 Z01

EB1 R L 对讲机 +12V 0V EB2

电话按钮

警铃按钮

DZ4

503 503
504 504
505 505
101 101
110 110
58 58
59 59
TCIU TCIU
TCIU TCIU

The light switch

The fan switch

The car to stop

Cage maintenance cancelled, direct short connection

Straight pin: E7508

KNWC-JD-B2 V1.4

JP9: 24V, CAN+, CAN-, GND

24V CANH CANL GND

4 meters

RVVP4*0.75mm

The car plate

SM.02/G

24V GND CANH CANL

JP1.4 JP1.1 JP1

RVVP4*0.75mm

1 meter

24V GND CANH CANL

JP1.4 JP1.1 JP1

24V GND MOD+ MOD-

JP1.4 JP1.1 JP1

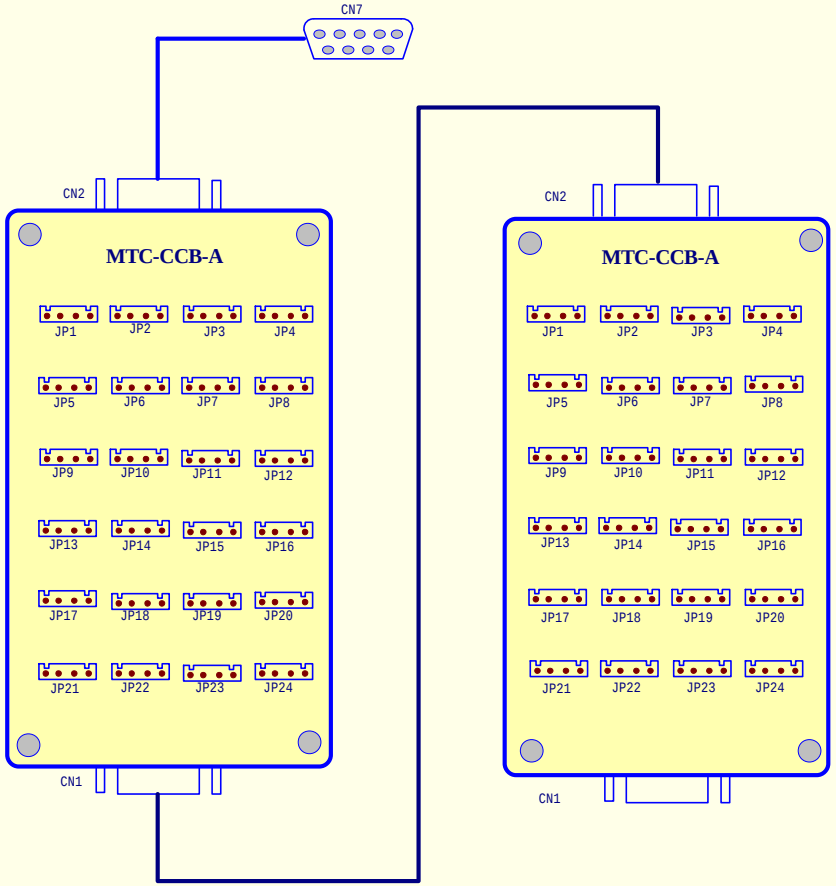
Note: PCB plug-in for female plug-in male pin.
Cable EA and CES plugins are public plugins
Female insert pin, insert pin model: 350536-1

The Menac system does not require a connection to the command board

Wiring diagram of control panel

design		total of 45 pages	
proofreading		Page 31	Villa ladder schematic diagram
audit			

To the corresponding port of the communication board on the top of the car



Serial number (n)

Corresponding interface

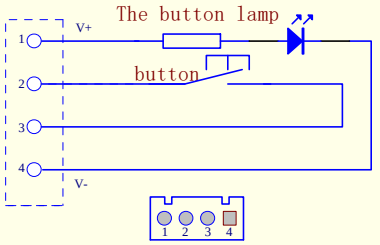
		define
1—16	JP1—JP16	Select button 1 —16
17	JP17	Open button
18	JP18	close button
19	JP19	Door delay button
20	JP20	direct
21	JP21	The driver
22	JP22	reversing
23	JP23	independent
24	JP24	fire

16For floors larger than 16, the second inner selection plate is selected.

For palette 2, JPn input

(Signal corresponds to (16+n) layer button input.

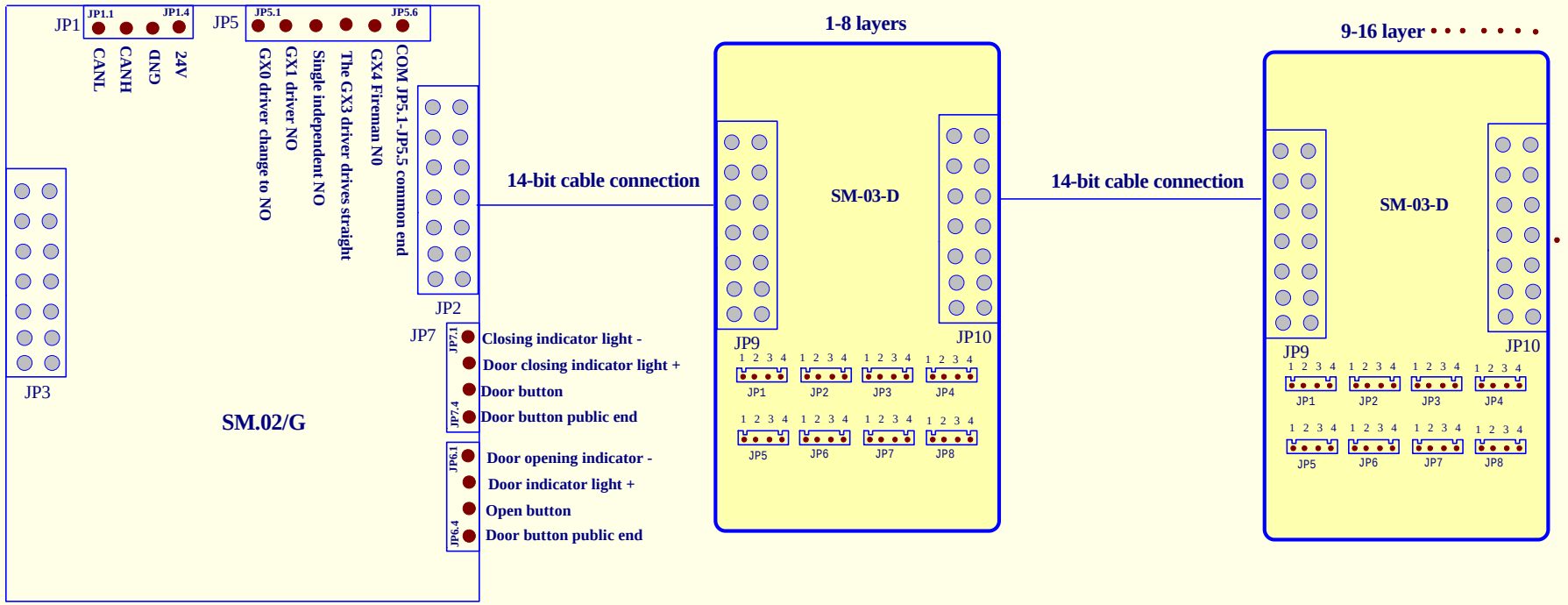
Socket wiring location diagram



Socket terminals are arranged

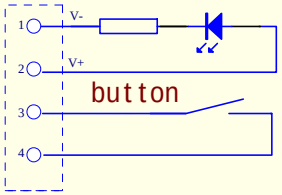
Menak selects the instruction board internally

design		total of 45 pages	
proofreading		Page 32	Villa ladder schematic diagram
audit			



Command board button

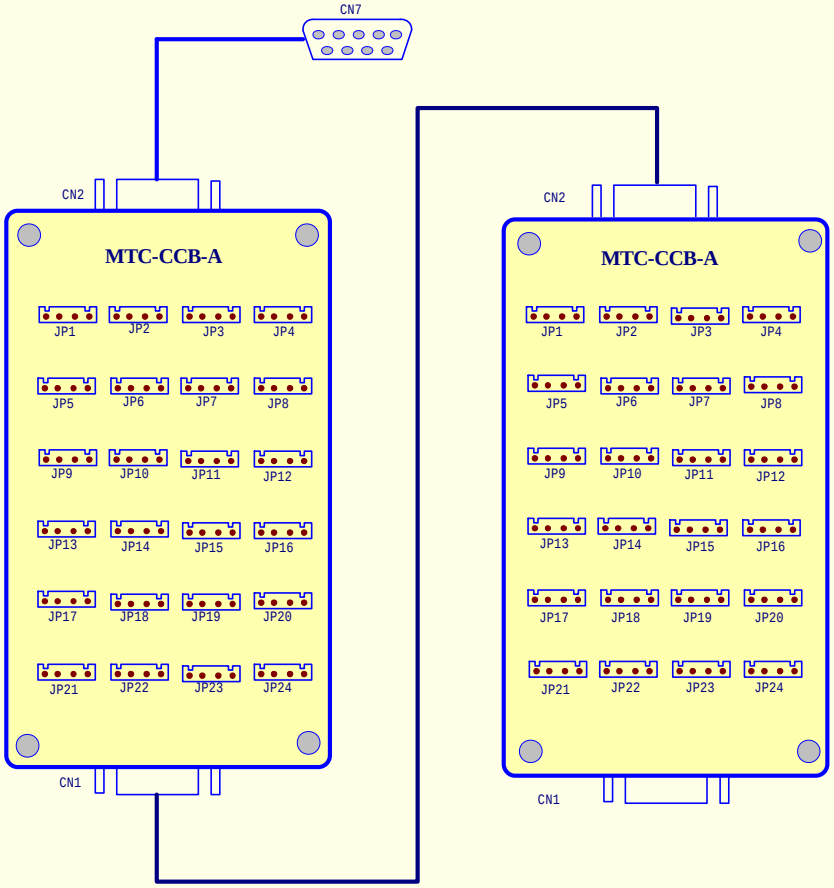
Interface figure



New time to select the instruction board

design		total of 45 pages	
proofreading		Page 31	Villa ladder schematic diagram
audit			

To the corresponding port of the communication board on the top of the car



Serial number (n)

Corresponding interface

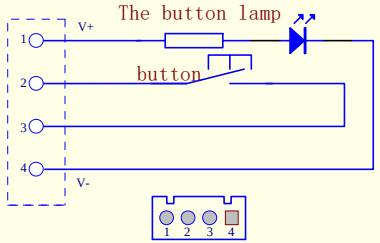
		define
1—16	JP1—JP16	Select button 1 —16
17	JP17	Open button
18	JP18	close button
19	JP19	Door delay button
20	JP20	direct
21	JP21	The driver
22	JP22	reversing
23	JP23	independent
24	JP24	fire

16For floors larger than 16, the second inner selection plate is selected.

For palette 2, JPn input

(Signal corresponds to (16+n) layer button input.

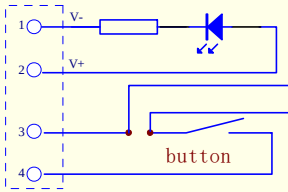
Socket wiring location diagram



Socket terminals are arranged

No layered control IC card

Button interface diagram



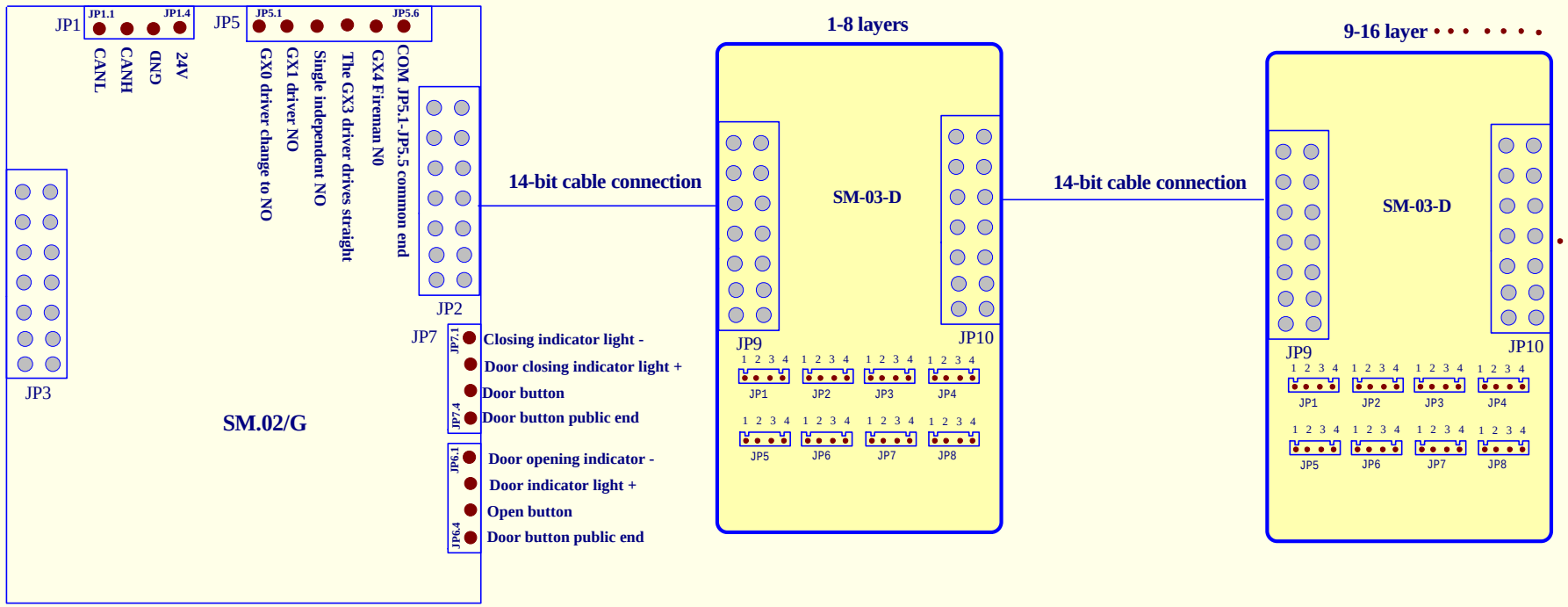
KD-105

J1

1 **Power input to the positive terminal**
2 **Power input negative**
6 **Relay normally open output**
7 **The public side**

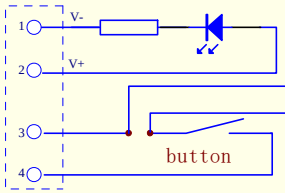
Mernak IC card and fingerprint machine wiring diagram

design		total of 45 pages	
proofreading		Page 34	Villa ladder schematic diagram
audit			

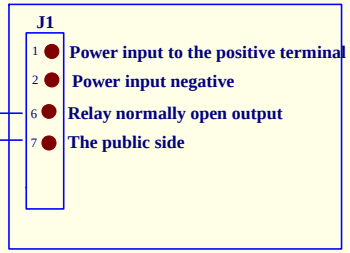


No layered control IC card

Button interface diagram

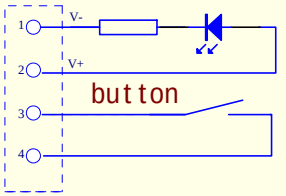


KD-105



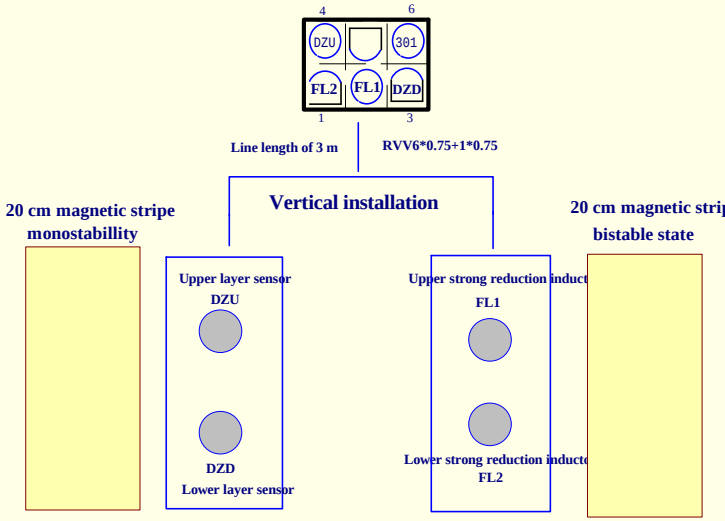
Command board button

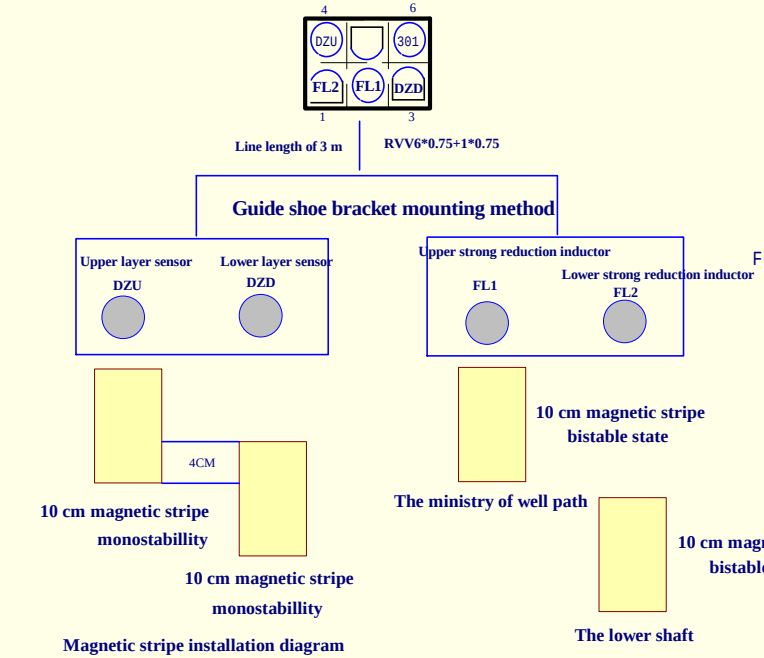
Interface figure



Wiring diagram of new time IC card and fingerprint machine

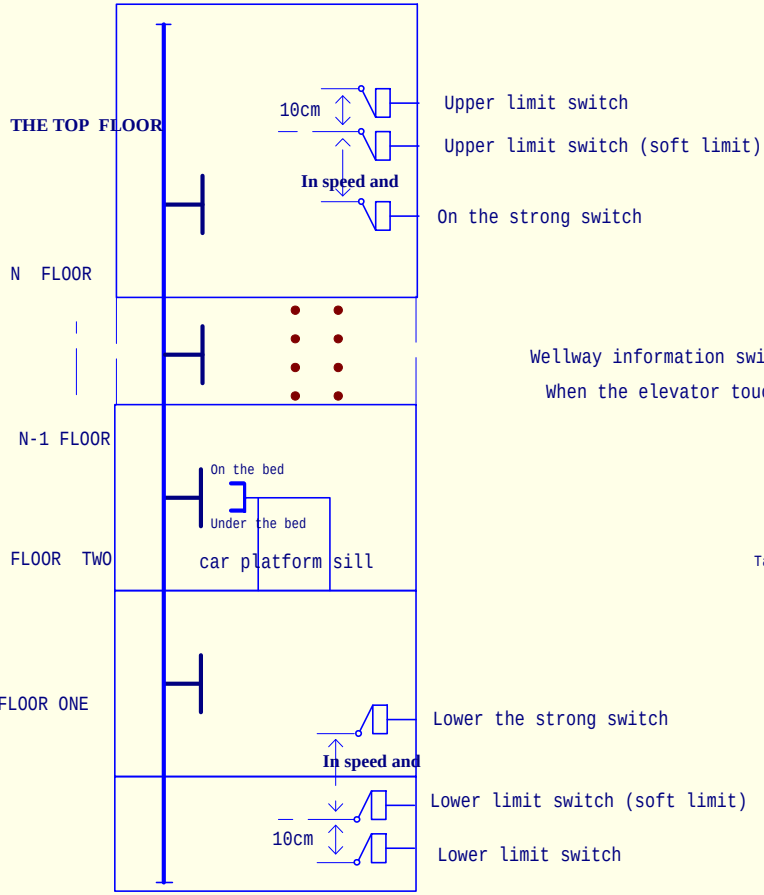
design		total of 45 pages	
proofreading		Page 35	Villa ladder schematic diagram
audit			

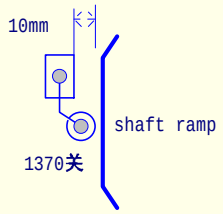




Magnetic stripe installation diagram

Location diagram of well signal system





Wellway information switches are (NC) normally closed contacts
When the elevator touches the switch, the switch is disconnected

Table of installation position of forced reduction switch

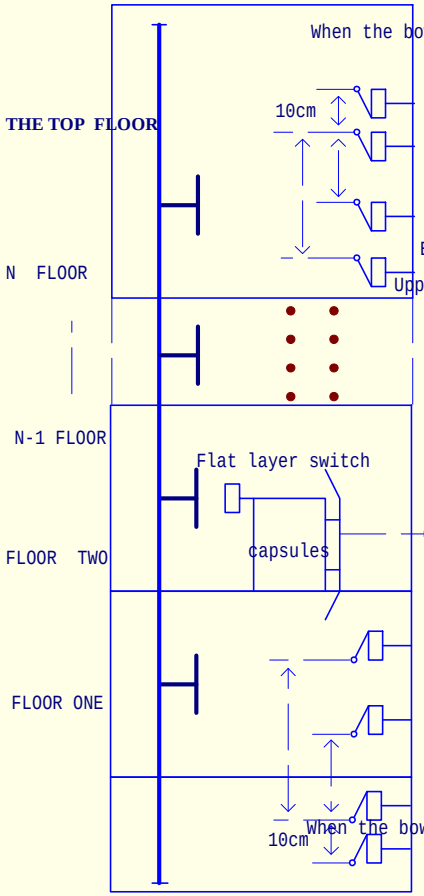
Installation distance of forced deceleration switch

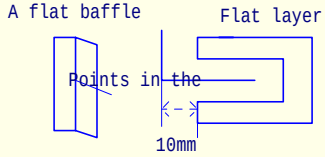
elevator speed	
0.4m/s	0.3m
0.63m/s	0.6m
1.0m/s	1.2m

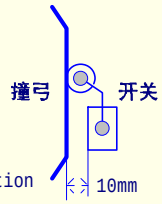
Note 1: This drawing is applicable to villa elevator
The well switch is installed in the car

Information diagram of well switch car placement

design		total of 45 pages	
proofreading		Page 36	Villa ladder schematic diagram
audit			







Elevator flat floor position, flat floor switch should be in the flat floor baffle location

Well information switches are (NC) normally closed contacts

The length of flat baffle (20-25cm) is the best

When the elevator touches the switch, the switch is disconnected

The size of the flat baffle of the same elevator must be the same

Forced deceleration switch mounting position table

elevator speed	Forced deceleration switch mounting distance	Forced deceleration switch 1 mounting distance	Forced deceleration switch 2 mounting distance
0.5m/s	0.8m		
1.0m/s	1.5m		
1.5m/s	2.4m		
1.75m/s	1.5m	2.8m	
2.0m/s	1.5m	3.5m	
>2.5m/s	1.5m	3.5m	5m

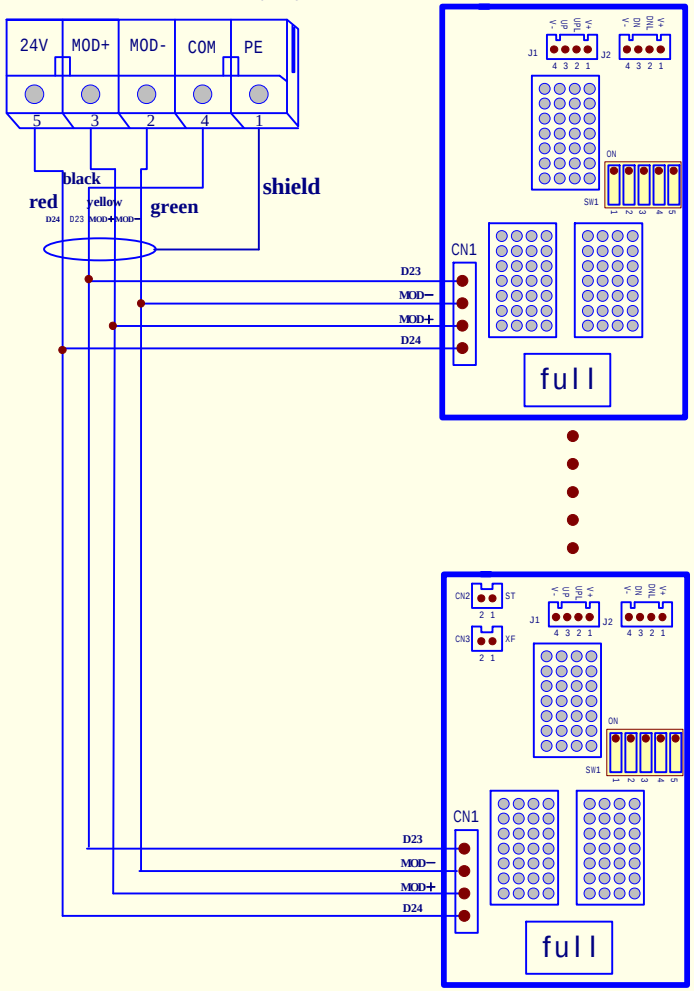
Installation drawing of well information switch

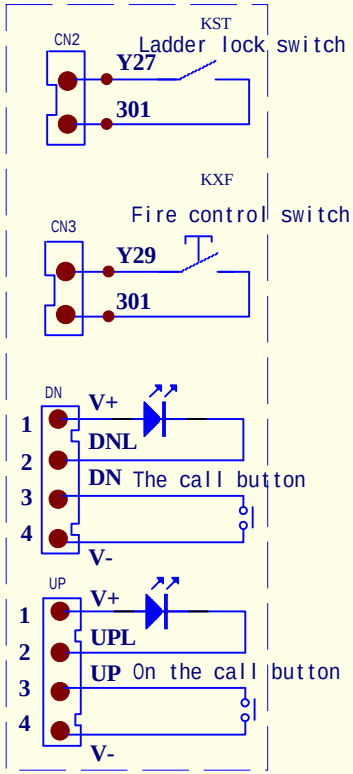
Note 1: This drawing is applicable to villa elevator
The wellway switch is installed in the wellway

Roadway switching and well placement infographic

design		total of 45 pages	
proofreading		Page 37	Villa ladder schematic diagram
audit			

Go to the machine room and plug with WH





When setting the address with the setting button, use the following methods:

When the setting button (S1) is pressed for the first time, the display area displays the current stored floor address and enters the setting state of floor address.

After each press the set button, the current floor address plus one.Press and hold the setting button for more than 2 seconds, and the floor address will increase from 0, and so on.

The floor address will increase rapidly. When the floor address reaches 56, press the "set" button.

If there is no setting operation within 5 seconds, the currently set floor address value will be automatically stored and the setting state will be automatically exited.

CN2 base station ladder locking interface, docking with ladder locking electric lock.

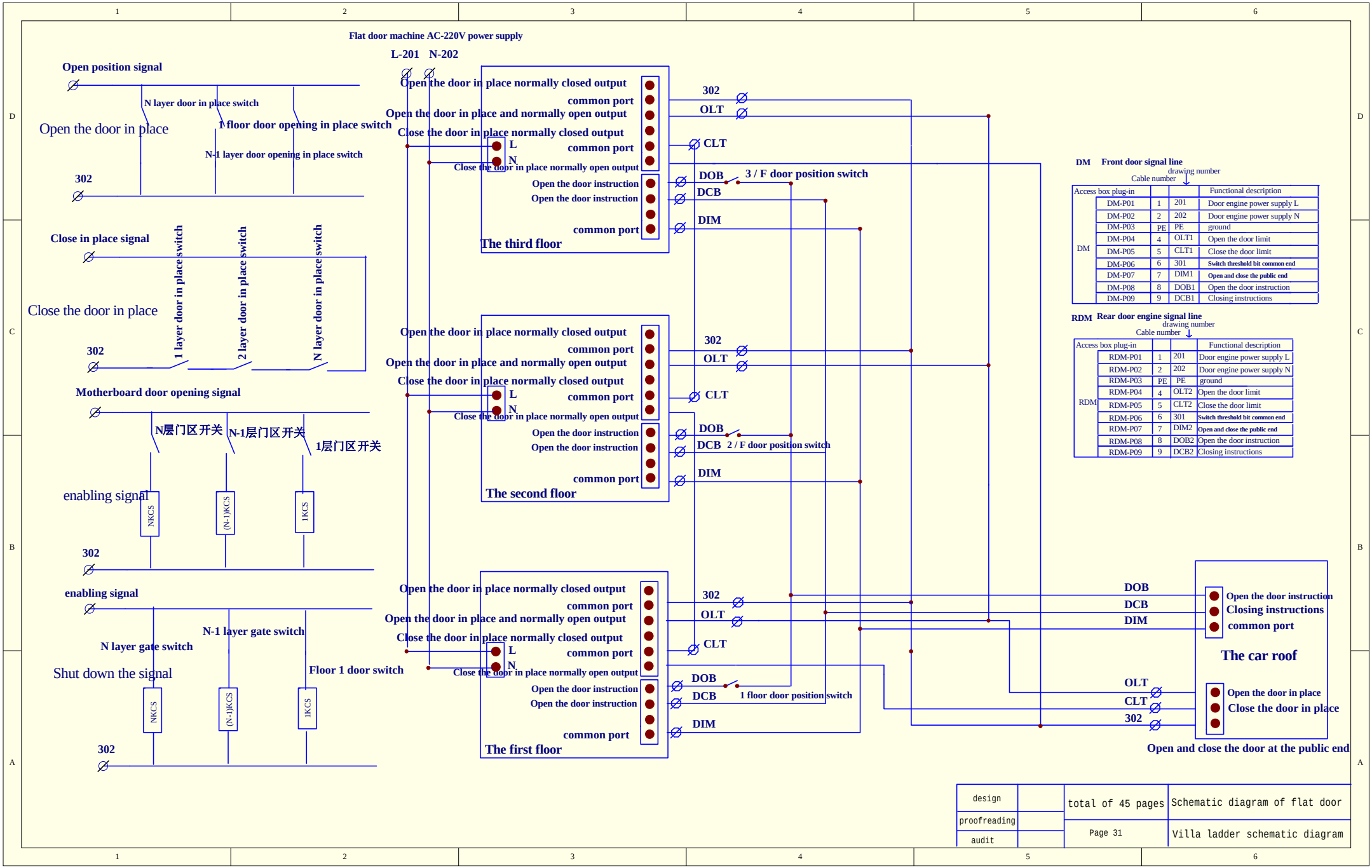
CN3 fire switch interface, butt joint with fire switch.

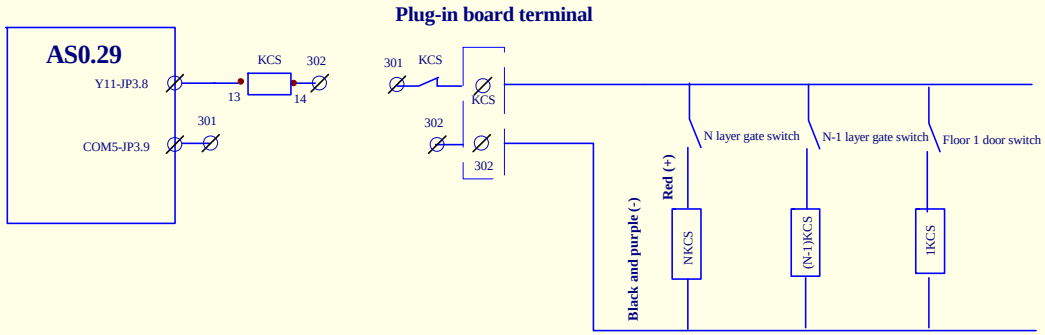
UP UP button interface.

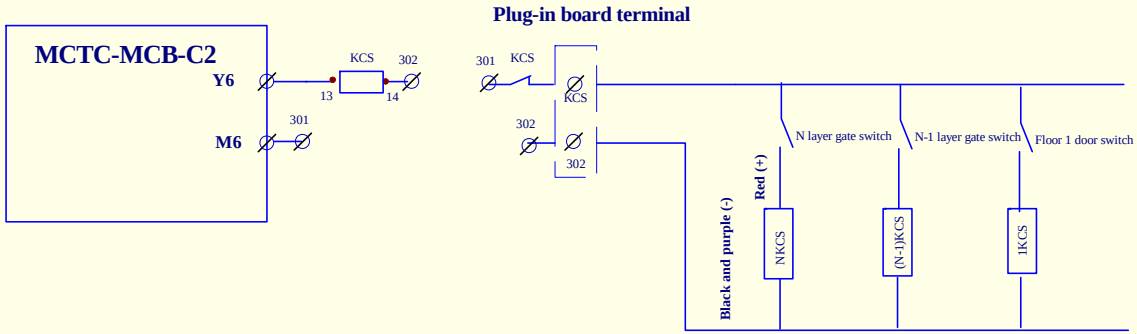
DN downlink button interface.

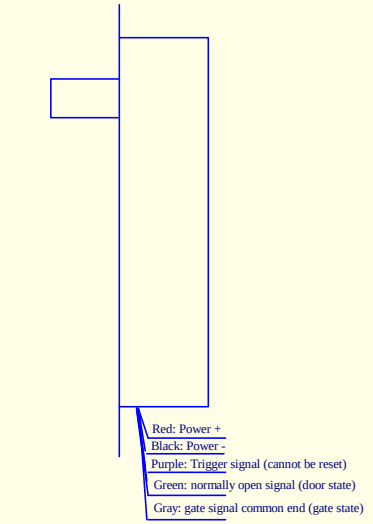
Outbound communications

design		total of 45 pages	
proofreading		Page 38	Villa ladder schematic diagram
audit			


Flat door machine AC-220V power supply
L-201 N-202
Open position signal
N layer door in place switch
Open the door in place
1 floor door opening in place switch
N-1 layer door opening in place switch
302
Close in place signal
1 layer door in place switch
2 layer door in place switch
N layer door in place switch
Close the door in place
302
Motherboard door opening signal
N层门区开关
N-1层门区开关
1层门区开关
enabling signal
NKCS
(N-1)KCS
1KCS
302
enabling signal
N layer gate switch
N-1 layer gate switch
Floor 1 door switch
Shut down the signal
NKCS
(N-1)KCS
1KCS
302
Open the door in place normally closed output
common port
Open the door in place and normally open output
Close the door in place normally closed output
L
common port
N
Close the door in place normally open output
Open the door instruction
Open the door instruction
common port
The third floor
302
OLT
CLT
DOB
3 / F door position switch
DCB
DIM
The second floor
2 / F door position switch
The first floor
1 floor door position switch
DM Front door signal line
drawing number
Cable number
Access box plug-in
DM
DM-P01 1 201 Door engine power supply L
DM-P02 2 202 Door engine power supply N
DM-P03 PE PE ground
DM-P04 4 OLT1 Open the door limit
DM-P05 5 CLT1 Close the door limit
DM-P06 6 301 Switch threshold bit common end
DM-P07 7 DIM1 Open and close the public end
DM-P08 8 DOB1 Open the door instruction
DM-P09 9 DCB1 Closing instructions
RDM Rear door engine signal line
drawing number
Cable number
Access box plug-in
RDM
RDM-P01 1 201 Door engine power supply L
RDM-P02 2 202 Door engine power supply N
RDM-P03 PE PE ground
RDM-P04 4 OLT2 Open the door limit
RDM-P05 5 CLT2 Close the door limit
RDM-P06 6 301 Switch threshold bit common end
RDM-P07 7 DIM2 Open and close the public end
RDM-P08 8 DOB2 Open the door instruction
RDM-P09 9 DCB2 Closing instructions
DOB
DCB
DIM
Open the door instruction
Closing instructions
common port
The car roof
OLT
CLT
302
Open the door in place
Close the door in place
Open and close the door at the public end
design
proofreading
audit
total of 45 pages
Page 31
Schematic diagram of flat door
Villa ladder schematic diagram

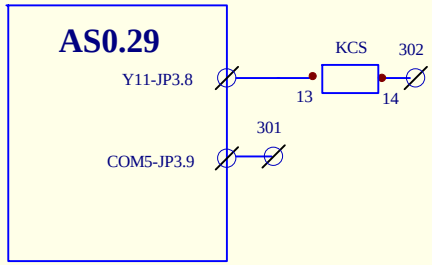




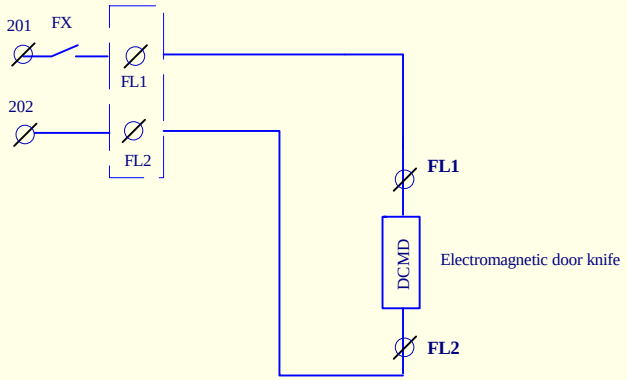


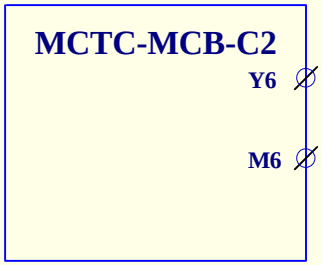
Schematic diagram of electric plug lock

design		total of 45 pages	
proofreading		Page 40	Villa ladder schematic diagram
audit			

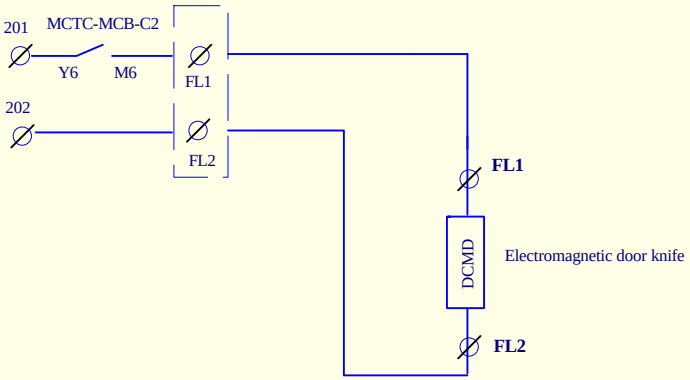


Control cabinet plug-in version: KNWC-KZG-A2





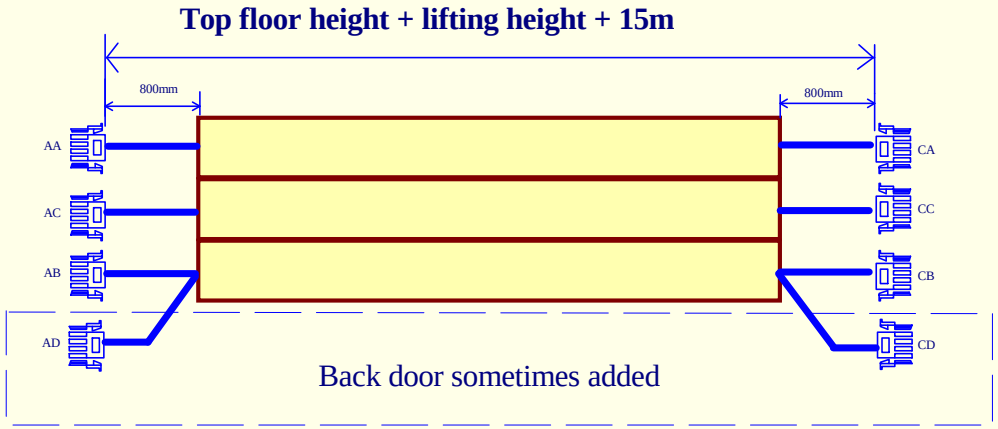
Control cabinet plug-in version: KNWC-KZG-A2



Schematic diagram of electromagnetic door cutter

design		total of 45 pages	
proofreading		Page 41	Villa ladder schematic diagram
audit			

	Cabinet card	Cable number	Drawing number	Drawing number	轿顶插件	
AA	AA-P01	yellow 1	508	Car lighting L	CA-P01	CA
	AA-P02	yellow 2	507	Car lighting N	CA-P02	
	AA-P03	yellow 3	202	Door power N	CA-P03	
	AA-P04				CA-P04	
	AA-P06	yellow 4	201	Door machine power L	CA-P06	
	AA-P07	yellow 5	130	The car door	CA-P07	
	AA-P10	yellow 6	113	Safety circuit	CA-P10	
	AA-P11	yellow 7	FL2	Under the bed again	CA-P11	
	AA-P12	yellow 8	FL1	On the bed again	CA-P12	
	AA-P13	yellow 9	118	Emergency motor circuit	CA-P13	
	AA-P14	yellow 10	131A	Door lock loop	CA-P14	
	AA-P15	yellow 11	101	Safety circuit	CA-P15	
AB	AB-P01	blue 1	302	24V-	CB-P01	CB
	AB-P02	blue 2	301	24V+	CB-P02	
	AB-P03	blue 3	58	Maintenance signal of car roof	CB-P03	
	AB-P04	blue 4	TCIU	Repair the upside	CB-P04	
	AB-P05	blue 5	TCID	Repair the downside	CB-P05	
	AB-P06	blue 6	DZU	On the bed	CB-P06	
	AB-P07	blue 7	DZD	Under the bed	CB-P07	
	AB-P08	blue 8	SGC1	Auxiliary door lock dry contact line	CB-P08	
	AB-P09	blue 9	T01	Intercom power supply 12V	CB-P09	
	AB-P10	blue 10	B01	Intercom power supply 0V	CB-P10	
	AB-P11	blue 11	C01	Intercom signal R	CB-P11	
	AB-P12	blue 12	C02	Intercom signal L	CB-P12	
AC	AC-P01	shielding 1	302	24V-	CC-P01	CC
	AC-P02	shielding 2	301	24V+	CC-P02	
	AC-P03	blue 13	SGC2	Auxiliary door lock dry contact line	CC-P03	
	AC-P04	shielding3	CAN+	Communication signal -	CC-P04	
	AC-P05	shielding 4	CAN-	Repair the downside	CC-P05	
	AC-P06	shielding	PE	PE	CC-P06	
AD	AD-P01	yellow 12	133	After the car door lock	CD-P01	CD
	AD-P02	yellow 13	134	After the car door lock	CD-P02	

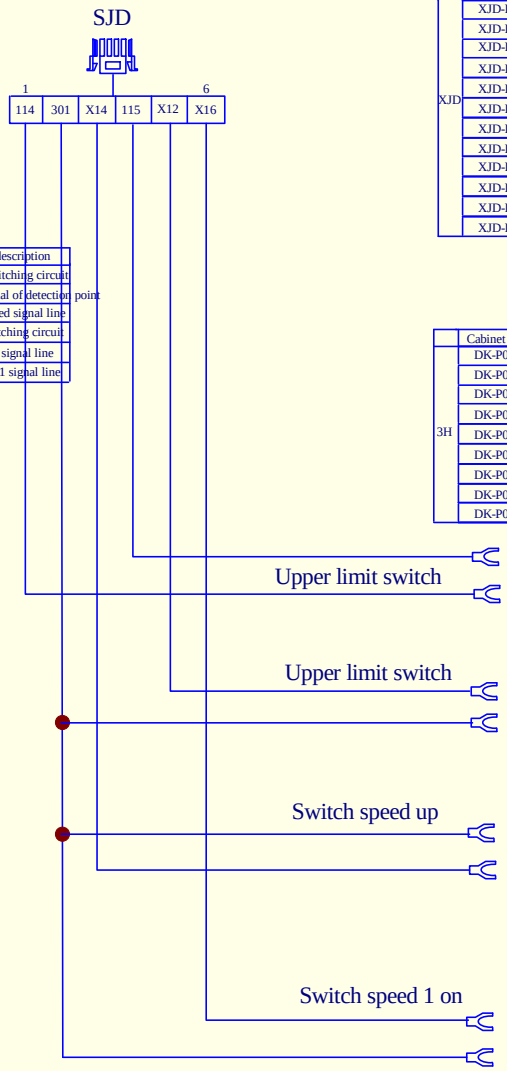


Note: 1 plug - in for both ends of trailing cable are male head and female needle.
The length of the cable is only for production and testing, which needs to be adjusted according to the actual situation.

design		total of 45 pages	Accompanying cable diagram
proofreading		Page 42	Villa ladder schematic diagram
audit			

SJD

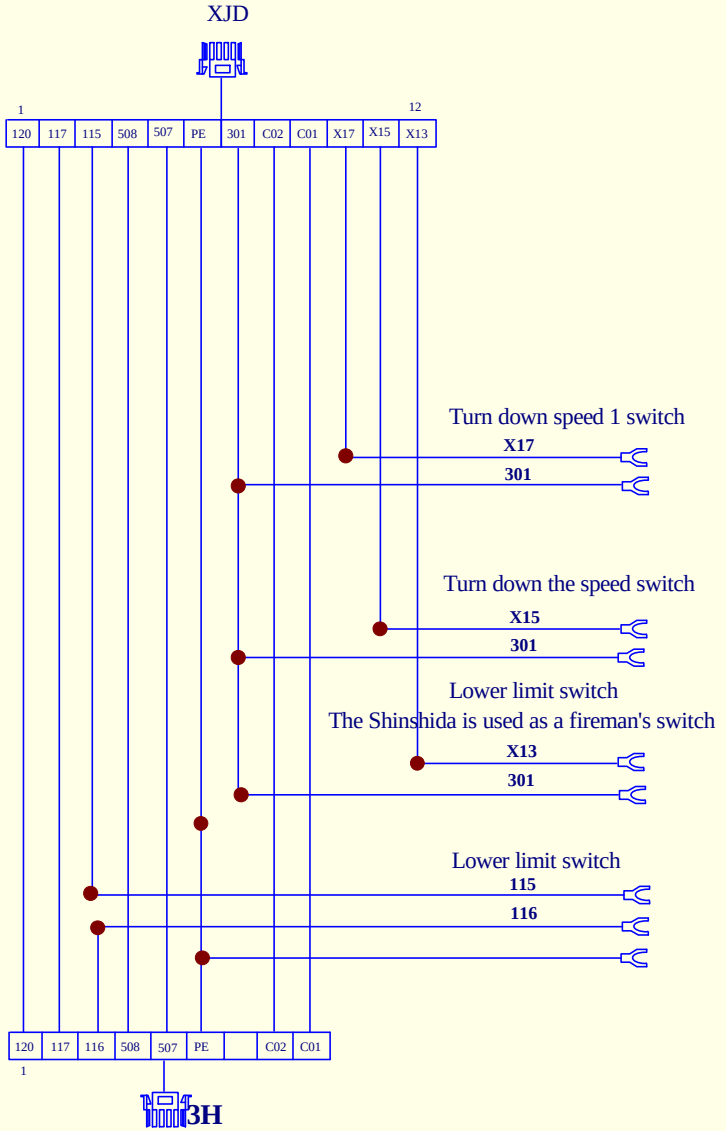
	Cabinet card	Cable number	Drawing number	Functional description
SJD	SJD-P01	1	114	Upper limit switching circuit
	SJD-P02	2	301	Common terminal of detection point
	SJD-P03	3	X14	Change speed signal line
	SJD-P04	4	115	Upper limit switching circuit
	SJD-P05	5	X12	Upper limit signal line
	SJD-P06	6	X16	Change speed 1 signal line



	Cabinet card	Cable number	Drawing number	Functional description
XJD	XJD-P01	1	120	Safety circuit
	XJD-P02	2	117	Emergency motor circuit
	XJD-P03	3	115	Safety circuit
	XJD-P04	4	508	Pit socket power N
	XJD-P05	5	507	Bottom pit socket power L
	XJD-P06	Yellow green	PE	grounding
	XJD-P07	6	301	Common terminal of detection point
	XJD-P08	7	C02	Intercom signal line L
	XJD-P09	8	C01	Intercom signal line R
	XJD-P10	9	X17	Change speed 1 signal line
	XJD-P11	10	X15	Lower the speed change signal line
	XJD-P12	11	X13	Lower limit bit signal line

	Cabinet card	Cable number	Drawing number	Functional description
3H	DK-P01	1	120	Safety circuit
	DK-P02	2	117	Emergency motor circuit
	DK-P03	3	116	Safety circuit
	DK-P04	4	508	Pit socket power N
	DK-P05	5	507	Bottom pit socket power L
	DK-P06	Yellow green	PE	grounding
	DK-P07	6		
	DK-P08	7	C02	Intercom signal line L
	DK-P09	8	C01	Intercom signal line R

XJD



Note: 1 SJD and XJD plug-ins are male head, insert pin with female pin.
The cable length is only for production test and should be adjusted according to the actual situation.

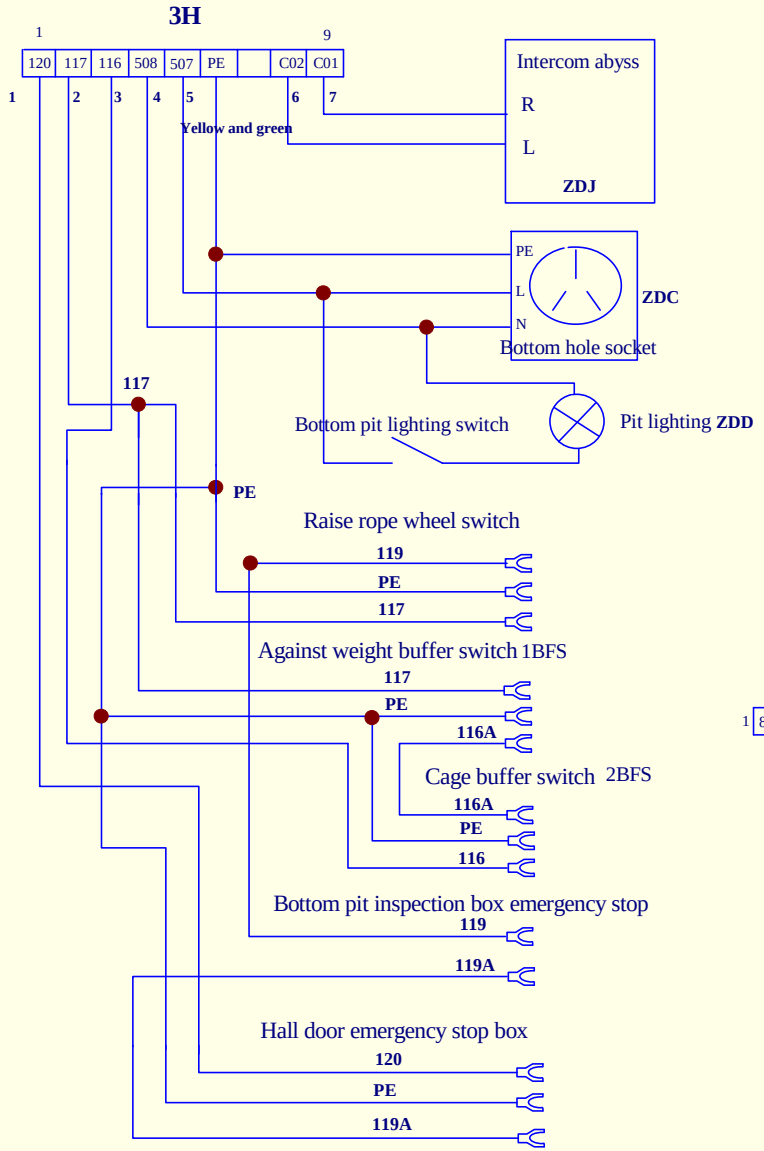
design		total of 45 pages	Upper and lower well path line
proofreading		Page 43	Villa ladder schematic diagram
audit			

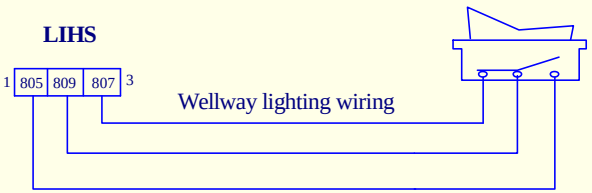
	Cabinet card	Cable number	Drawing number	Functional description
3H	DK-P01	1	120	Safety circuit
	DK-P02	2	117	Emergency motor circuit
	DK-P03	3	116	Safety circuit
	DK-P04	4	508	Pit socket power N
	DK-P05	5	507	Bottom pit socket power L
	DK-P06	Yellow green	PE	grounding
	DK-P07	6		
	DK-P08	7	C02	Intercom signal line L
	DK-P09	8	C01	Intercom signal line R

Drawing number

	Cabinet card	Cable number		Functional description
LIHS	LIHS-P01	**1 -- the grey**	**805**	**Normally open contacts**
	LIHS-P02	**2 - brown**	**809**	**The public side**
	LIHS-P03	**3 - black**	**807**	**Normally closed contacts**

Note: The pin inserts of the pit inspection box and the emergency stop box at the hall door are both male pin with female head.
The plugins of the cable are all male head and female pin.

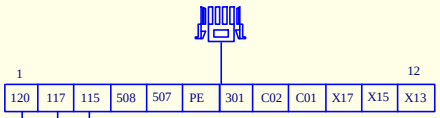




Tunnel speed change pit inspection box

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XJD



	Cabinet card	Cable number	Drawing number	Functional description
XJD	XJD-P01	1	120	Safety circuit
	XJD-P02	2	117	Emergency motor circuit
	XJD-P03	3	115	Safety circuit
	XJD-P04	4	508	Pit socket power N
	XJD-P05	5	507	Bottom pit socket power L
	XJD-P06	Yellow green	PE	grounding
	XJD-P07	6	301	Common terminal of detection point
	XJD-P08	7	C02	Intercom signal line L
	XJD-P09	8	C01	Intercom signal line R
	XJD-P10	9	X17	Change speed 1 signal line
	XJD-P11	10	X15	Lower the speed change signal line
	XJD-P12	11	X13	Lower limit bit signal line

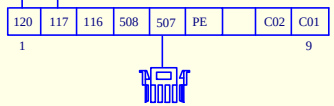
	Cabinet card	Cable number	Drawing number	Functional description
3H	DK-P01	1	120	Safety circuit
	DK-P02	2	117	Emergency motor circuit
	DK-P03	3	116	Safety circuit
	DK-P04	4	508	Pit socket power N
	DK-P05	5	507	Bottom pit socket power L
	DK-P06	Yellow green	PE	grounding
	DK-P07	6		
	DK-P08	7	C02	Intercom signal line L
	DK-P09	8	C01	Intercom signal line R

Note: 1 the plugins at both ends of the downhole cable are male and female pins.
The cable length is only for production test and should be adjusted according to the actual situation.

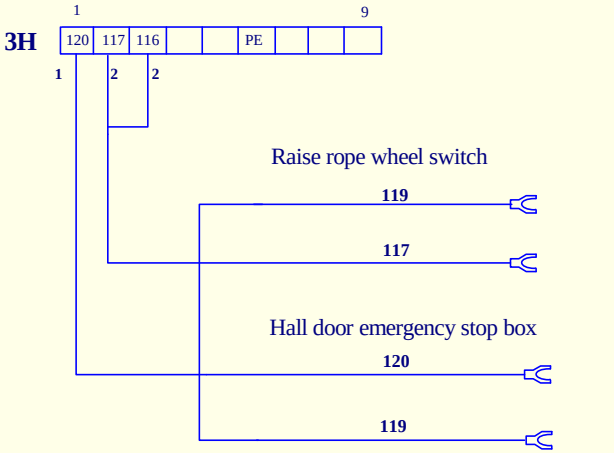
	Cabinet card	Cable number	Drawing number	Functional description
3H	DK-P01	1	120	Safety circuit
	DK-P02	2	117	Emergency motor circuit
	DK-P03	3	116	Safety circuit
	DK-P04	4		
	DK-P05	5		
	DK-P06	Yellow green		
	DK-P07	6		
	DK-P08	7		
	DK-P09	8		

	Cabinet card	Cable number	Drawing number	Functional description
LIHS	LIHS-P01	**1 -- the grey**	**805**	**Normally open contacts**
	LIHS-P02	**2 - brown**	**809**	**The public side**
	LIHS-P03	**3 - black**	**807**	**Normally closed contacts**

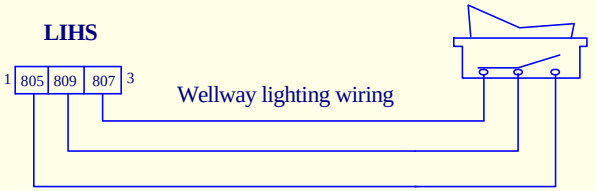
Note: The pin inserts of the pit inspection box and the emergency stop box at the hall door are both male pin with female head.
The plugins of the cable are all male head and female pin.



3H



LIHS



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