

A

Symbol	Item	Location	Remark
BKC	Motor brake coil	Machine room	
BR	Brake resistor	Control cabinet	
BRS	Brake travel switch	Control cabinet	May not use
SMTR	Motor Thermal Protection	Control cabinet	May not use
CHM	Arrival gong	Car	
DC-03BS	Vertical calling & display board	Hall & car	
DC-03HS	Horizontal calling & display board	Hall & car	
DOB	Door open button	Car	
DCB	Door close button	Car	
DO	Front door open control	Car	
DC	Front door close control	Car	
DOL	Front door open feedback signal	Car	
DCL	Front door close feedback signal	Car	
DOWN. CABINET	Down button	Control cabinet	
DOWN. CARTOP	Down button	Car	
UP CABINET	Up button	Control cabinet	
UP CARTOP	Up button	Car	
EC-CCB	Car top operation board	Car	
EC-CTB	Car top control board	Car	
FIRE/SW	Fire switch button	Hall	
INSP. CABINET	Inspection switch	Control cabinet	
INSP. CARTOP	Maintenance switch	Car	
KBK	Brake contactor	Control cabinet	
KDL	Hall door lock relay	Control cabinet	
KLS	Energy saving relay	Control cabinet	
KM0	Power contactor	Control cabinet	
KM1	Star-delta contactor	Control cabinet	
KM2	Running contactor	Control cabinet	
KM5	UPS contactor	Control cabinet	
KOP	Door open delay button	Control cabinet	
KPR	Phase sequence relay	Control cabinet	
KPWR	Power test relay	Control cabinet	
KSAF	Safety relay	Control cabinet	
KBK1	Brake contactor control 2	Control cabinet	

Symbol	Item	Location	Remark
PS24V	24VDC Power supply	Control cabinet	
QM1	Main circuit breaker	Control cabinet	
QU1	UPS circuit breaker	Control cabinet	
FU1	Fuse	Control cabinet	
RDO	Rear door open control	Car	
RDC	Rear door close control	Car	
RDOL	Rear door open feedback signal	Car	
RDCL	Rear door close feedback signal	Car	
RSE	Rear door curtain	Car	
R-SGAT	Car door lock switch	Car	
SDS1	Low speed down forced switch	Hoistway	
SDS2	Medium speed down forced switch	Hoistway	
SDSL	Lower limit switch	Hoistway	
SUS1	Low speed up forced switch	Hoistway	
SUS2	Medium speed up forced switch	Hoistway	
SUSL	Upper limit switch	Hoistway	
SMDZ	Middle door area	Car	
SGOV	Speed governor switch	Machine room	
SESP	Pit emergency stop button	Pit	
STEN	Governor tension sheave switch	Pit	
SCBF	Car buffer switch	Pit	
SWBF	Weight buffer switch	Pit	
SDFL	Well lower limit switch	Hoistway	
SUFL	Well upper limit switch	Hoistway	
SWH	Handwheel switch	Traction machine	
SUOV	Uplink overspeed protection switch	Traction machine	
SSAF	Safe gear switch	Car	
SEST	Top car emergency stop button	Cartop	
SESC	Car emergency stop button	Car	
SESR	Control cabinet emergency button	Control cabinet	
SHDR	Hall door lock	Landing door	
TR1	Power supply transformer	Control cabinet	
TR2	Inverter transformer	Control cabinet	
SFR	Fireman switch	Machine room	
SIG	Analog weghting signal	Car	
FL	Full load signal	Car	
OL	Over load signal	Car	
LL	Light load signal	Car	

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CUSTOMER:

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MACHINE:

EC3000A System Control Diagram

EC3000A-01

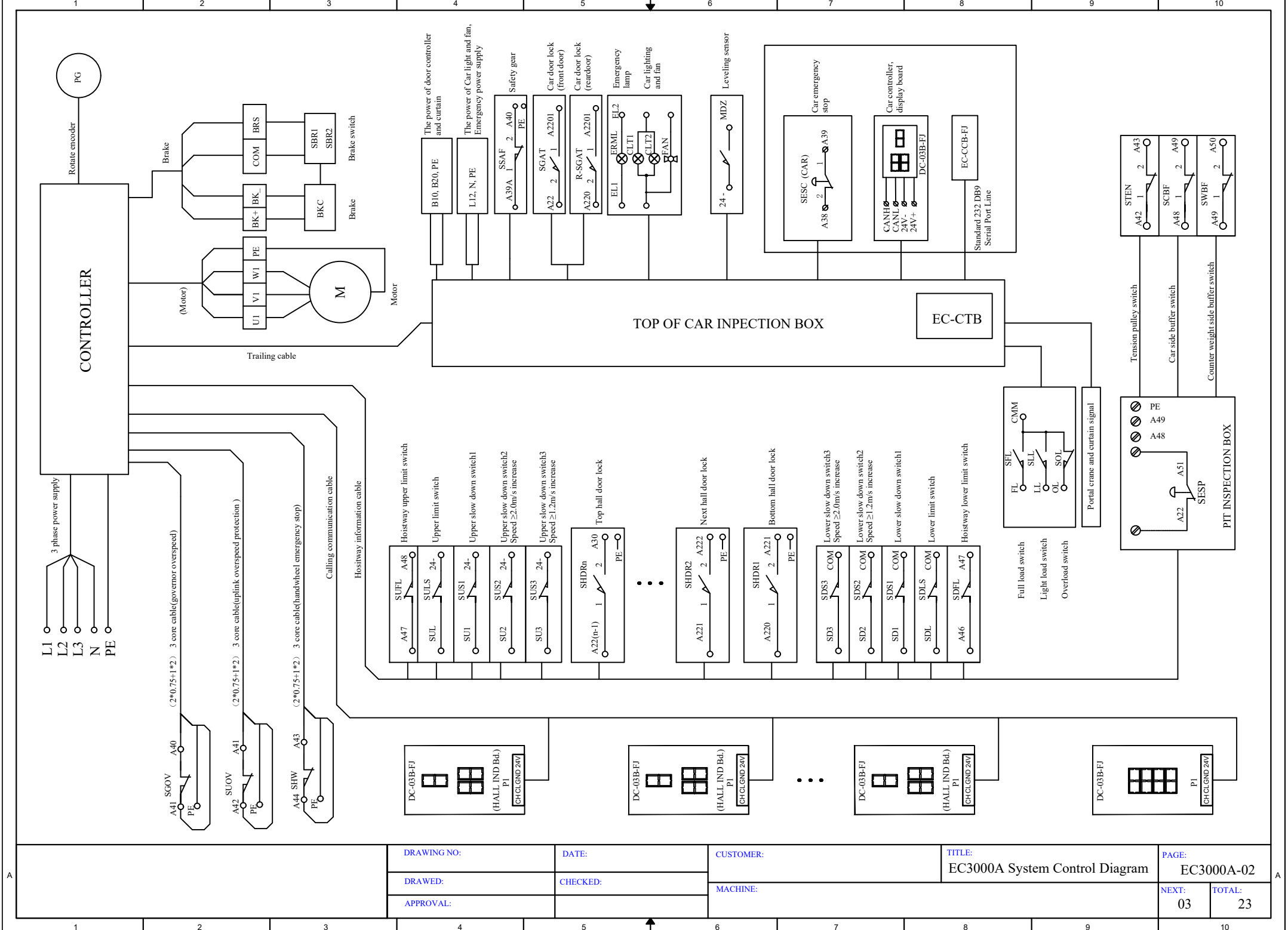
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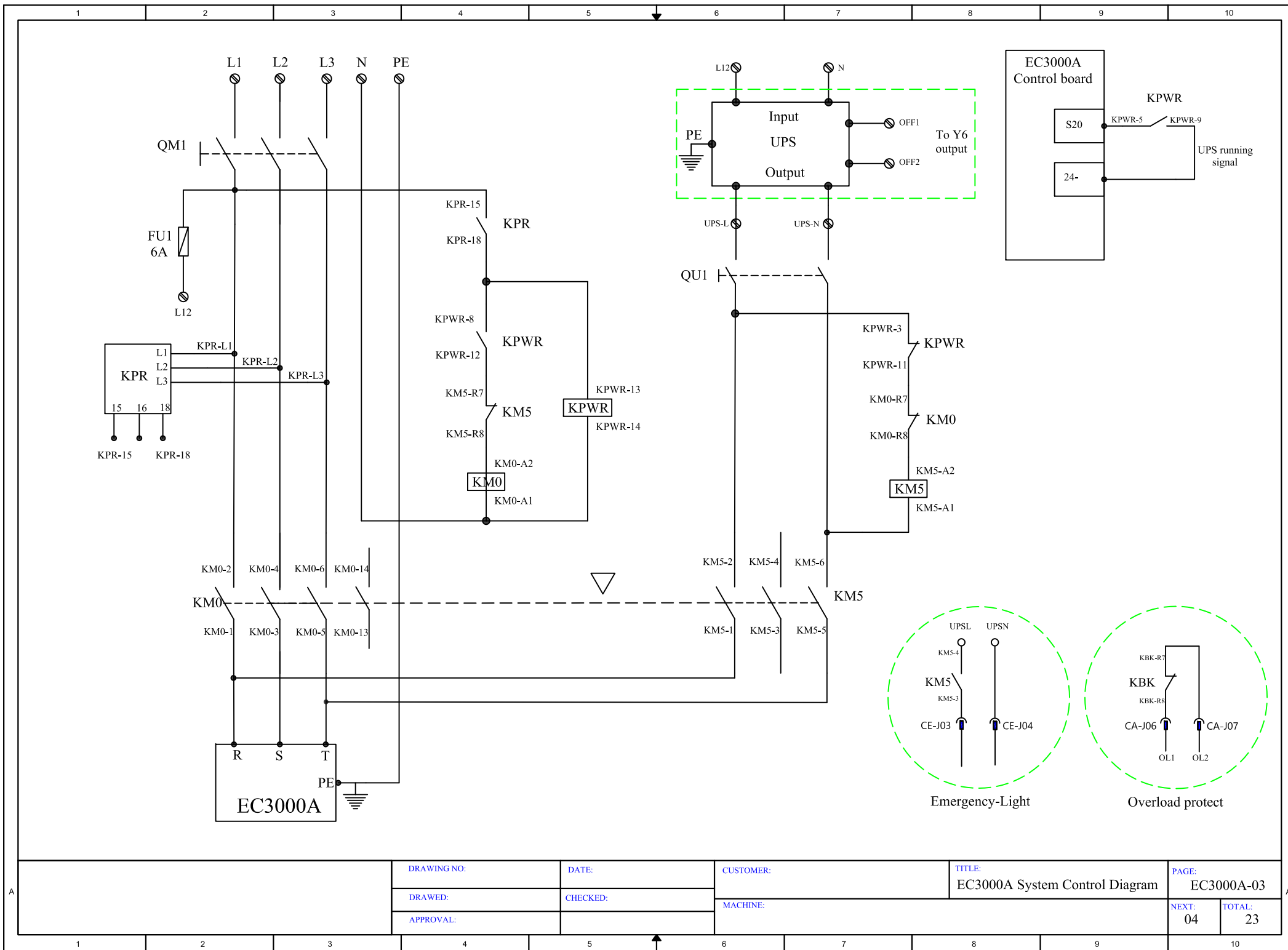
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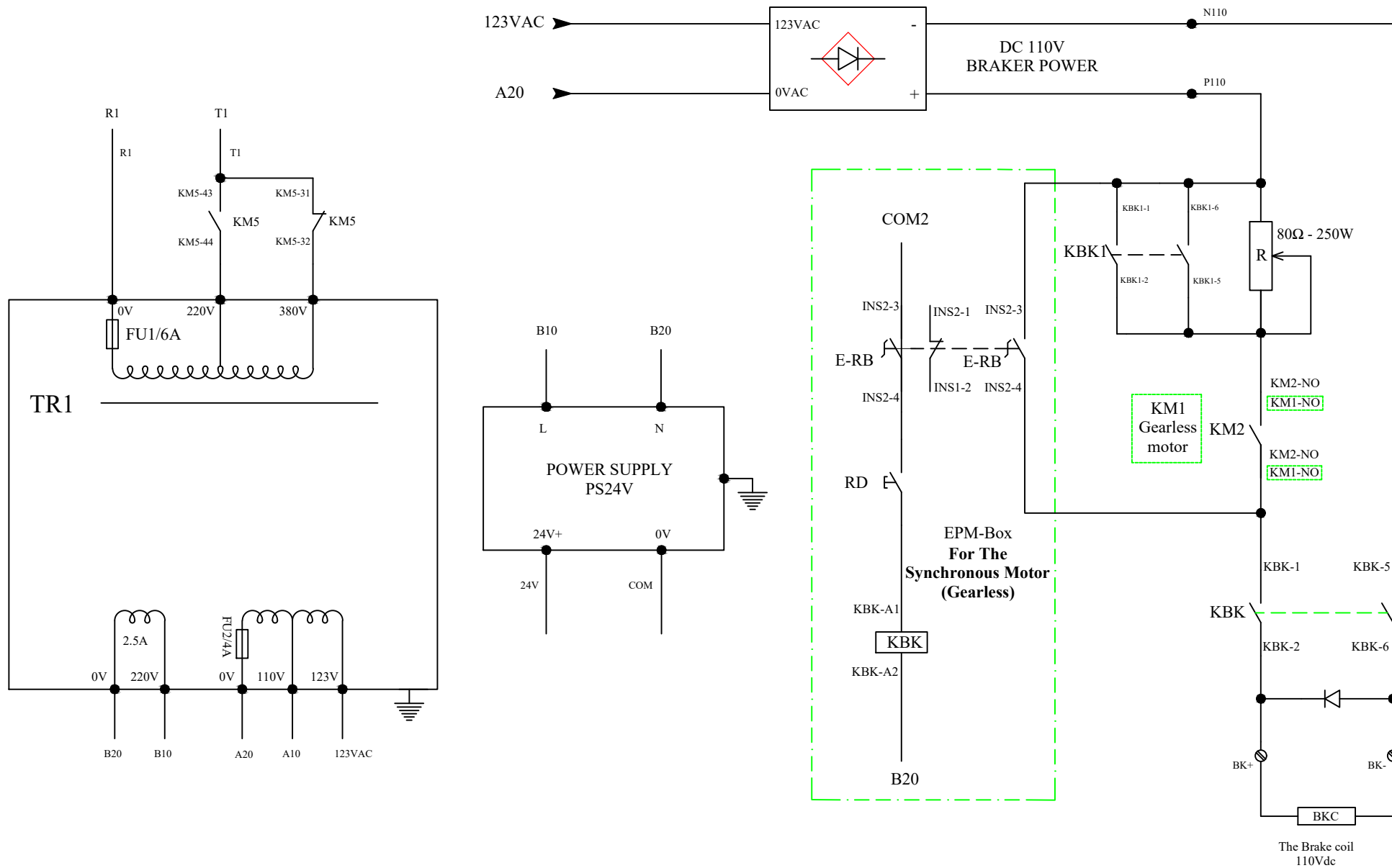
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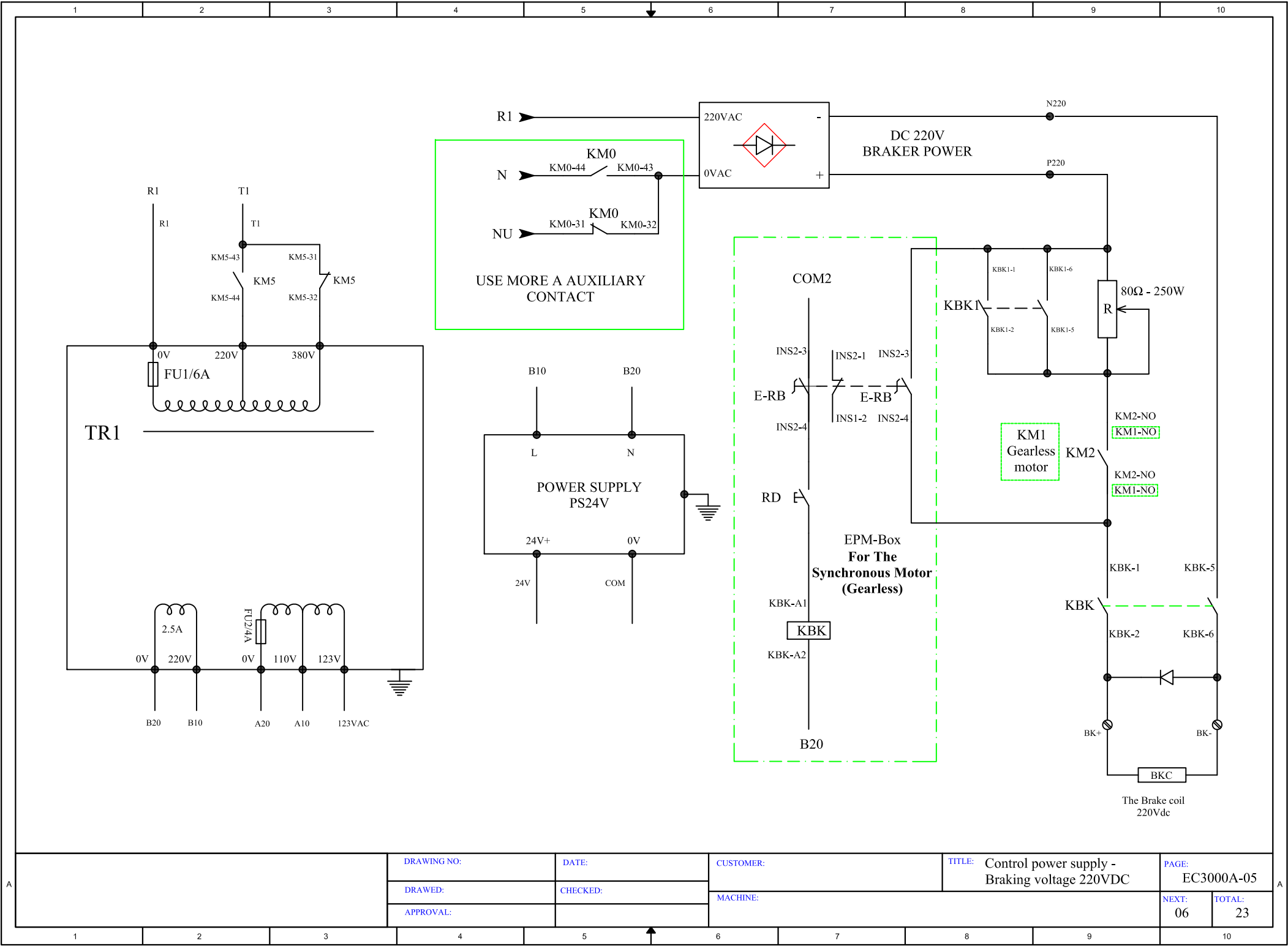


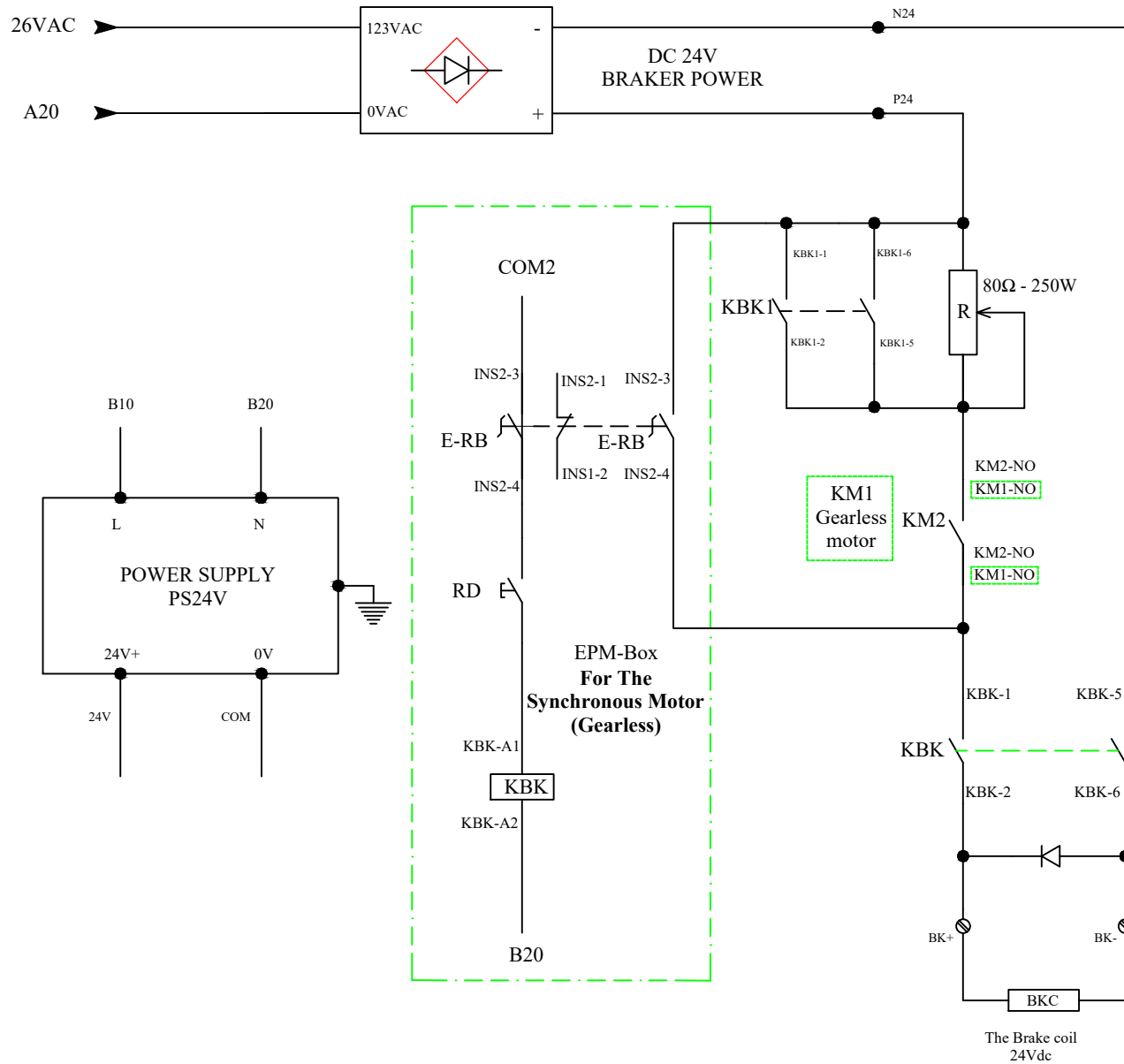
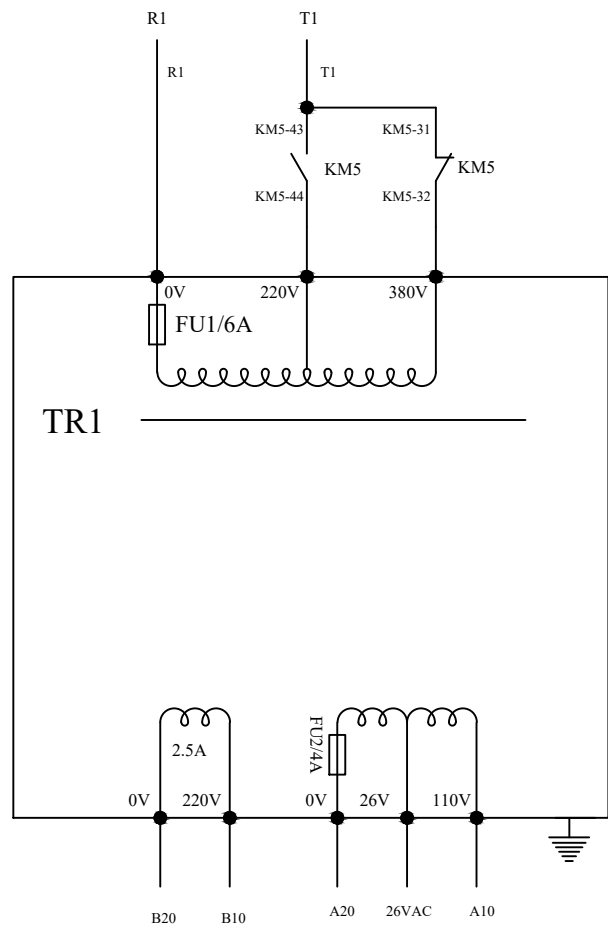
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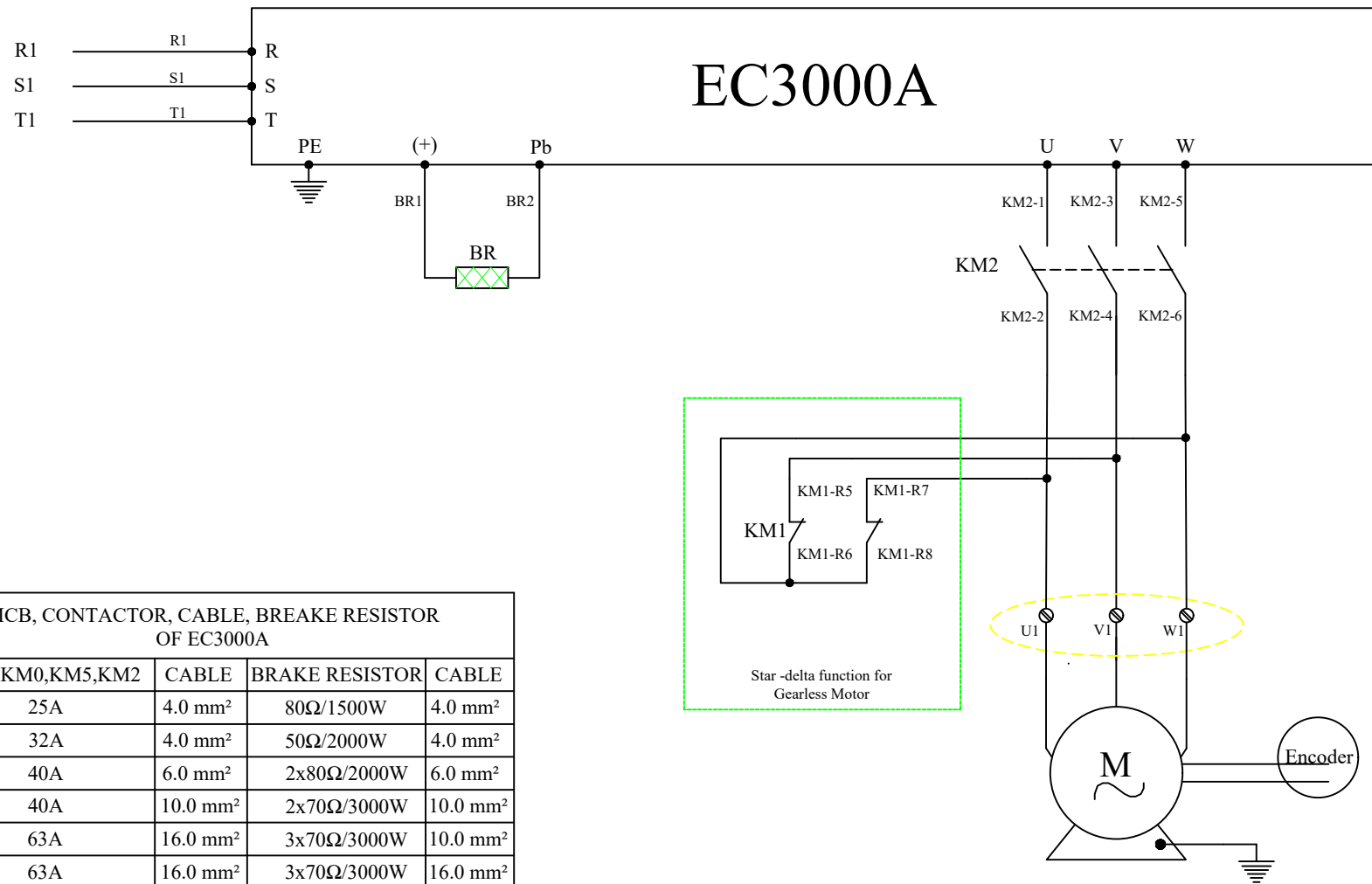


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TITLE: Main driver circuit

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EC3000A-07

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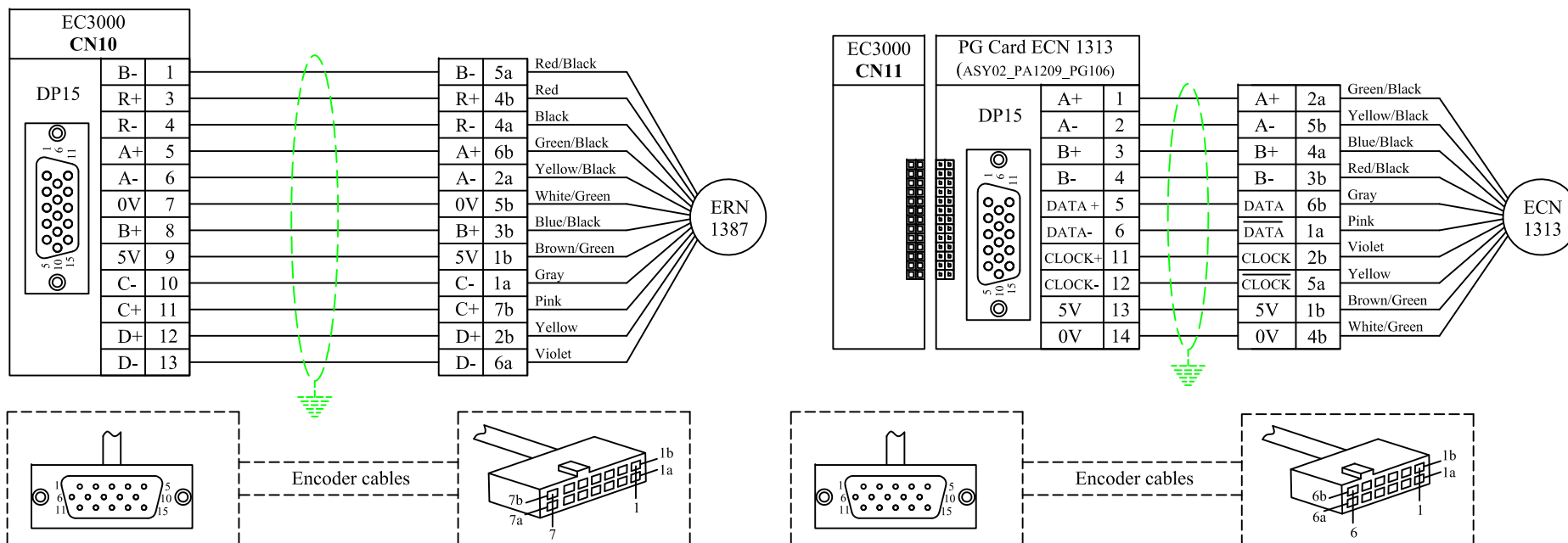
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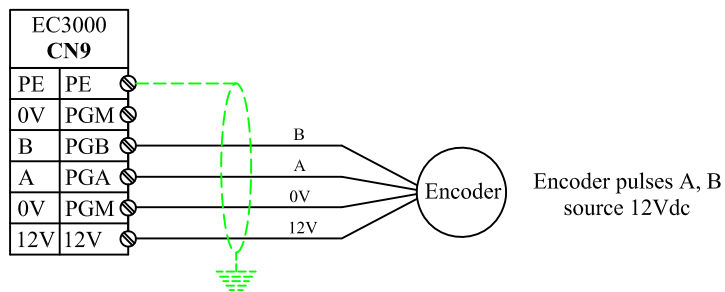
08

23

For The Synchronous Motor (Gearless)



For The Asynchronous Motor (Gear)



DRAWING NO:

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TITLE:

Encoder

PAGE: EC3000A-08

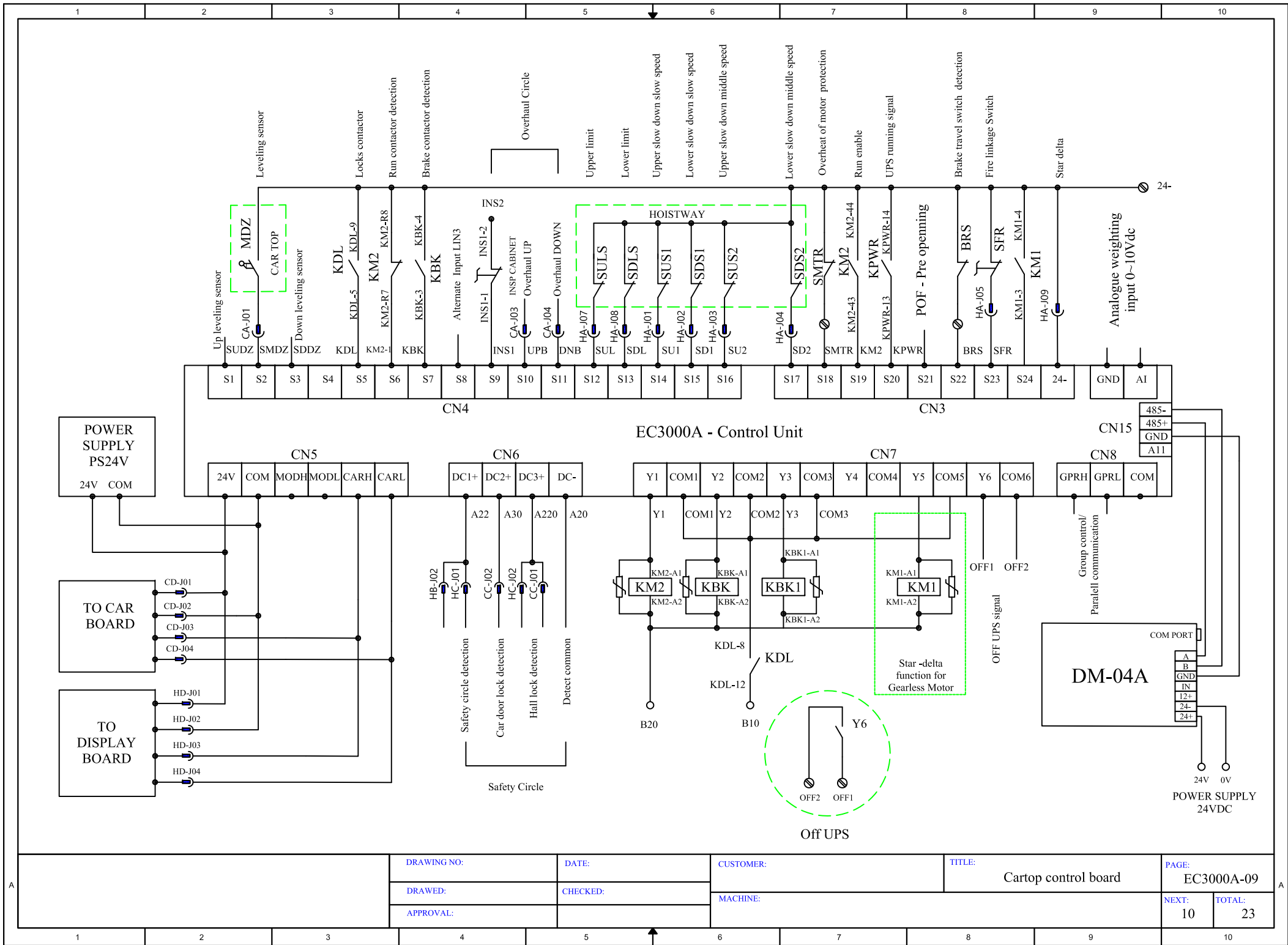
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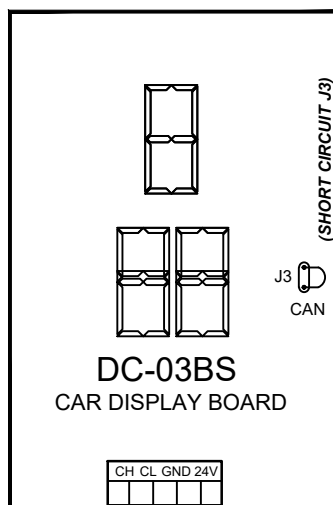
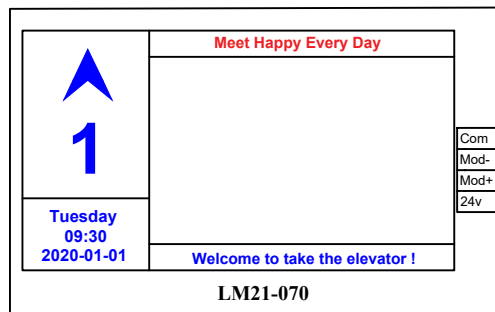
Cartop control board

NEXT:

10

TOTAL:

23



Com
Mod-
Mod+
24v

2 1
NO

P10
USB1

24V+
24V-
B
A
P4

RS485-
RS485+

Elevator Front door Rear door
chime control control

CHM 24V DO DC COM3 RDO RDC COM4
CHM CM2 DO DC CM3 RDO RDC CM4

Energy saving control

KLS 14 13 COM

24V+

KSL2
CM1
KSL1
P8

CN1
Connect to the
front door car's
behest board

Standard 232 DB9
Serial Port Line

To EC-CCB CH1

EC-CTB

GND COM 24V
2 1
NO

CN2
Connect to the back
door and disabled
car's behest board

P3
CARH
CARL
24-
24+

P2
CARH
CARL
24-
24+

P7
24V
AI
CMM
BK1
OL
LL
FL
CMM

P6
RSE
RDCL
RDOL
CMM
SE
DOL
DCL
CMM

To the car
communication
cabinet

CANH
CANL
24-
24+

CANH
CANL
24-
24+

0~10Vdc

OL
LL
FL
COM

Analogue
weighting

Over load,
light load,
full load

CD-J03
CD-J04
CD-J02
CD-J01

Rear door curtain

Rear door close,
open signal

Front door curtain

Front door close,
open signal

DRAWING NO:

DATE:

CUSTOMER:

TITLE:

Cartop control board

PAGE:

EC3000A-10

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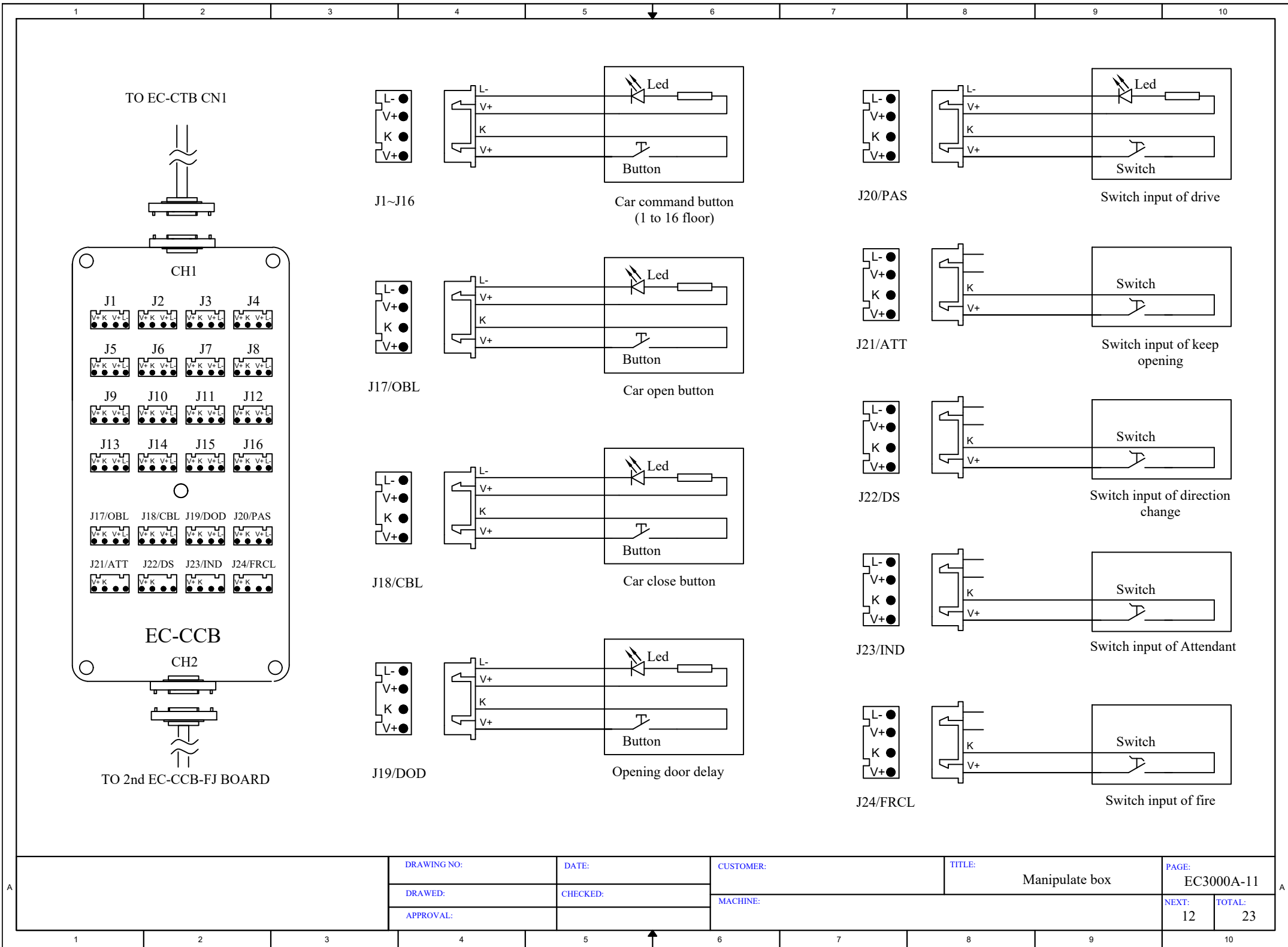
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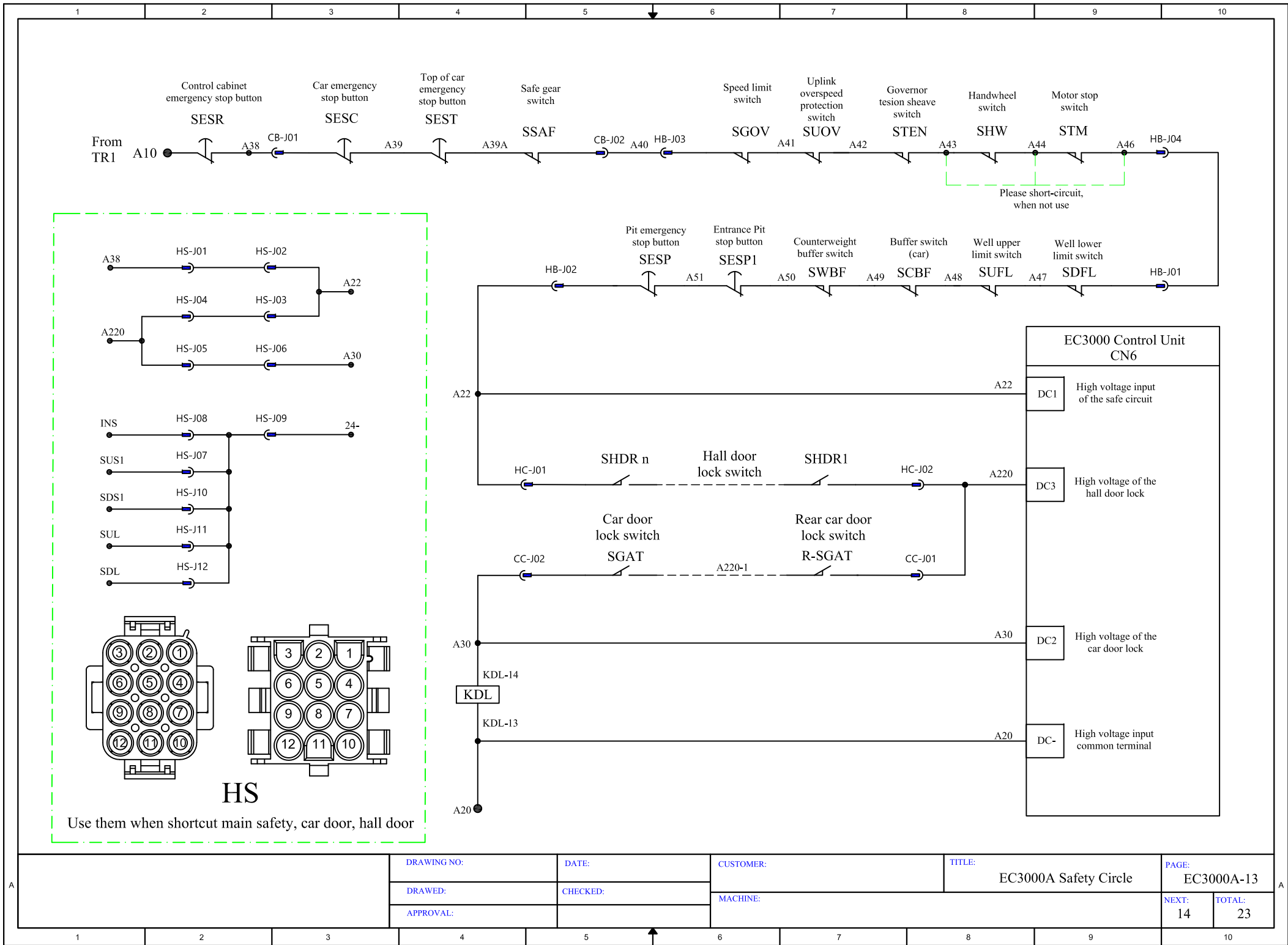
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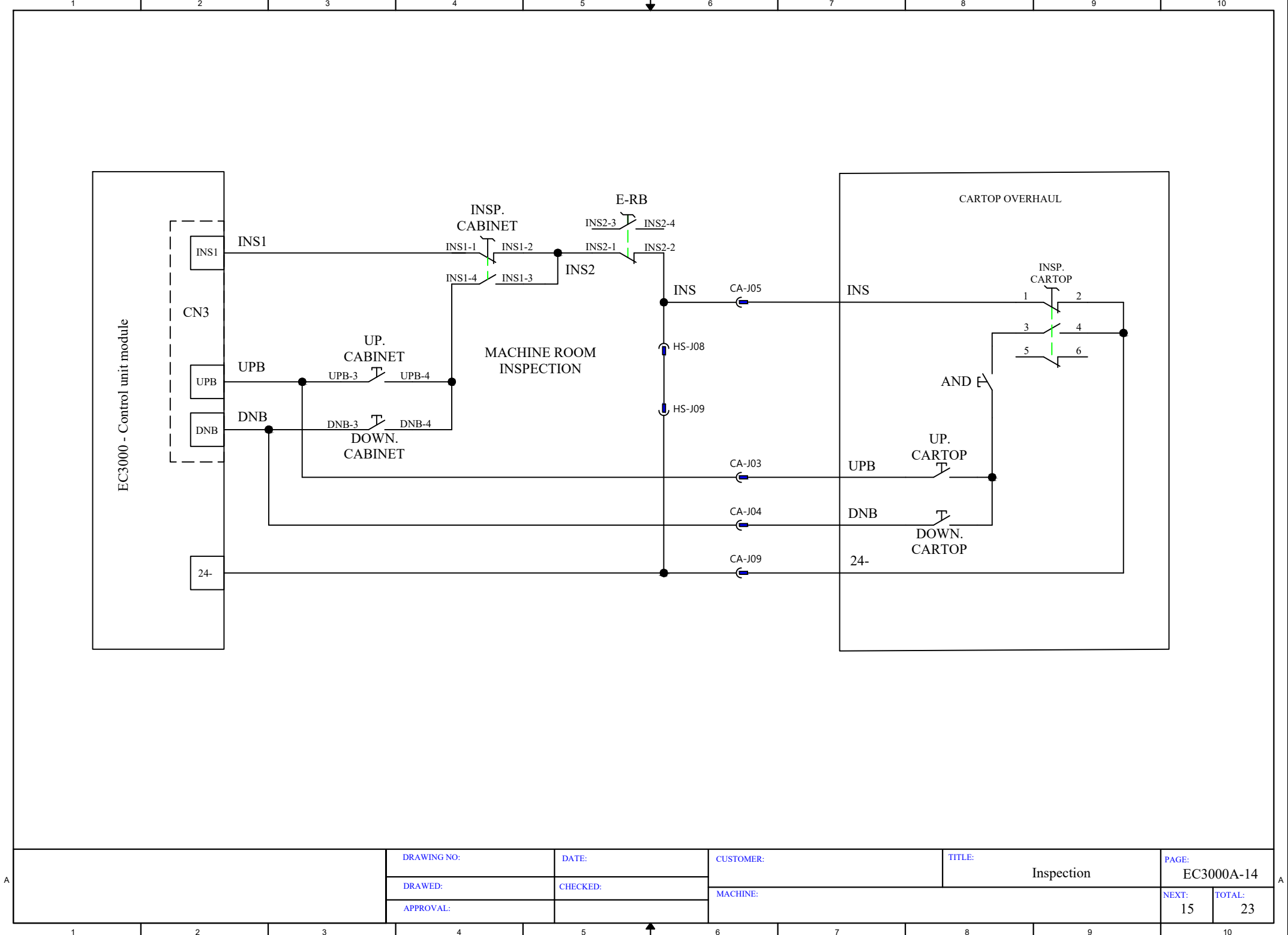
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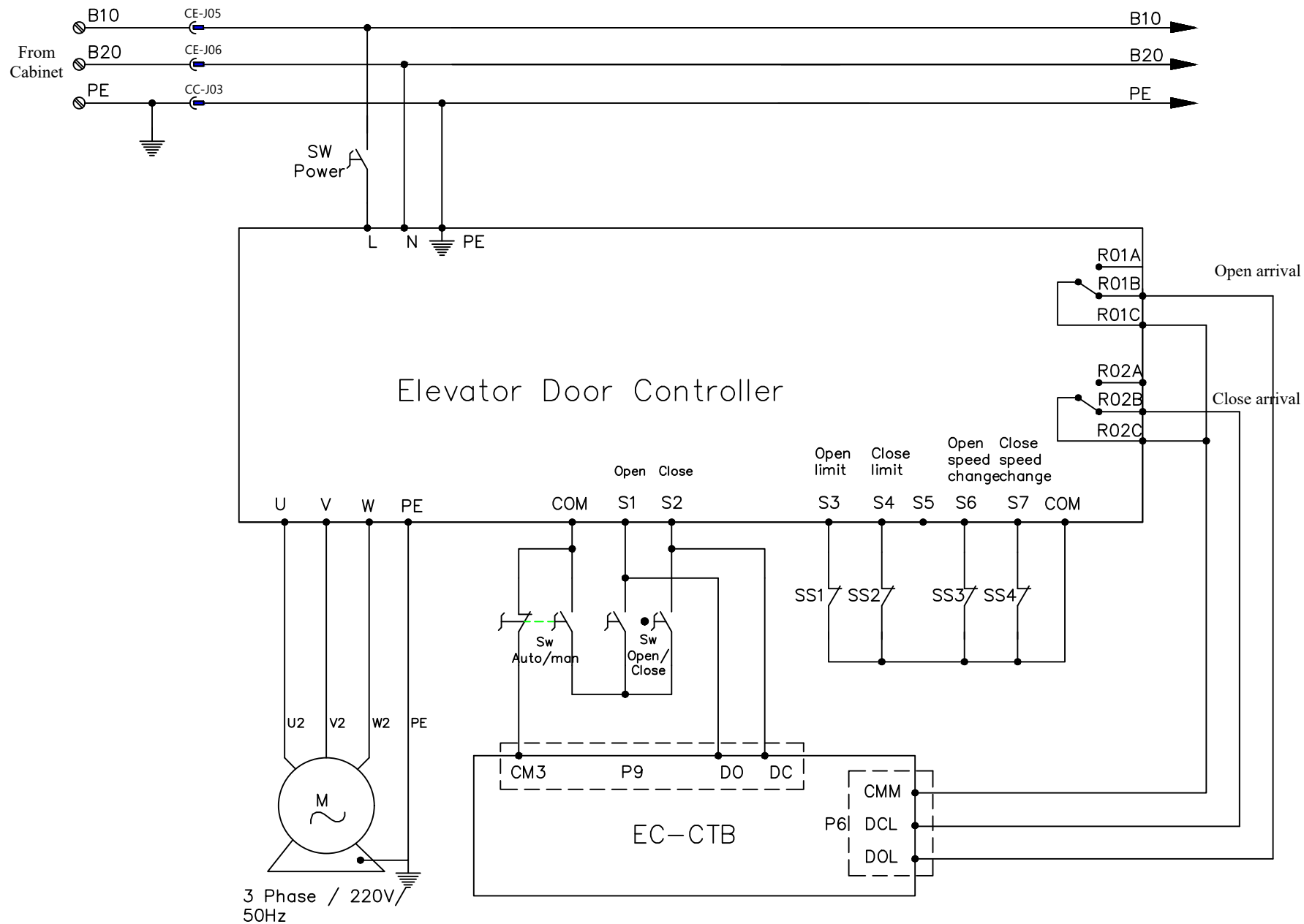
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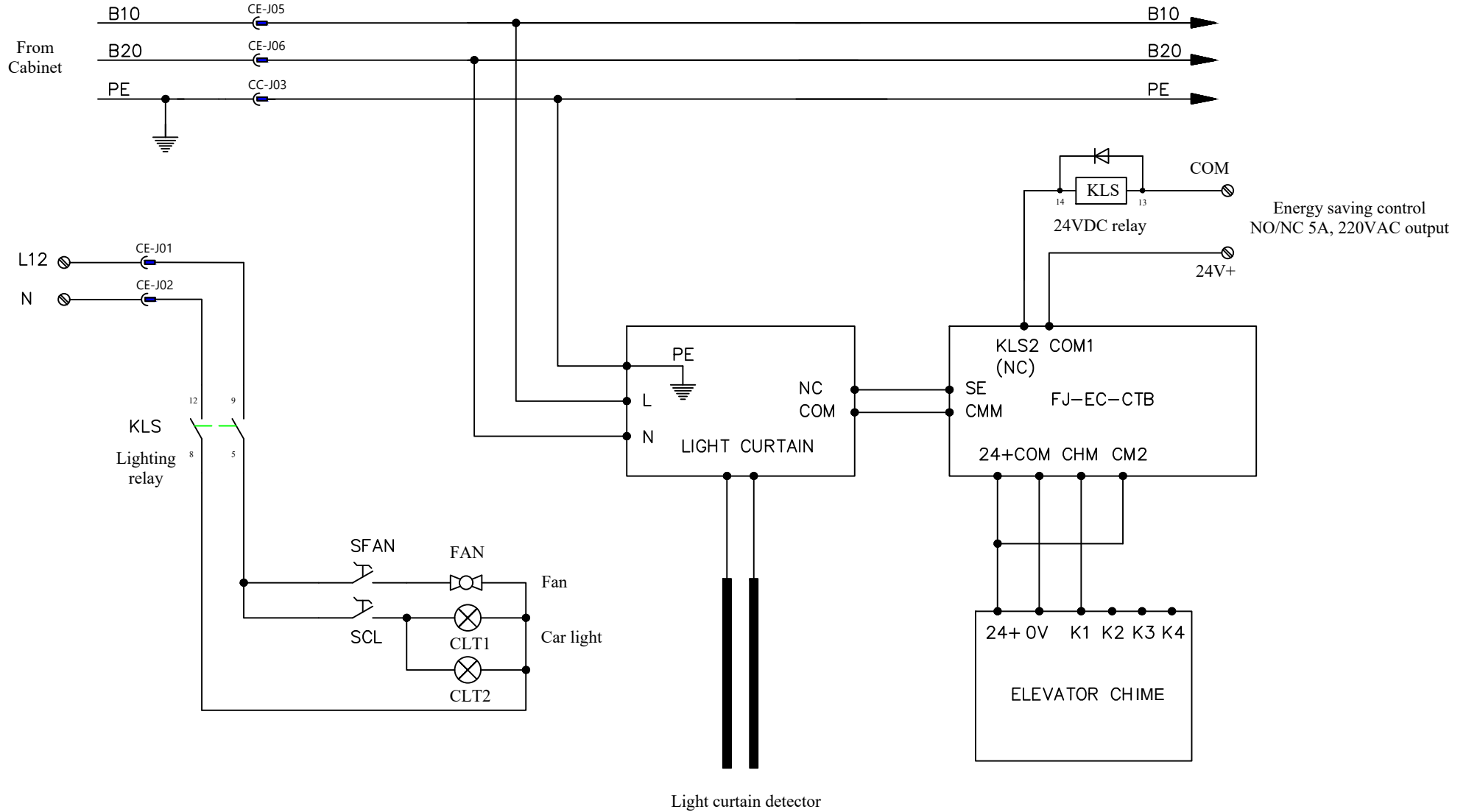






Elevator Door Controller

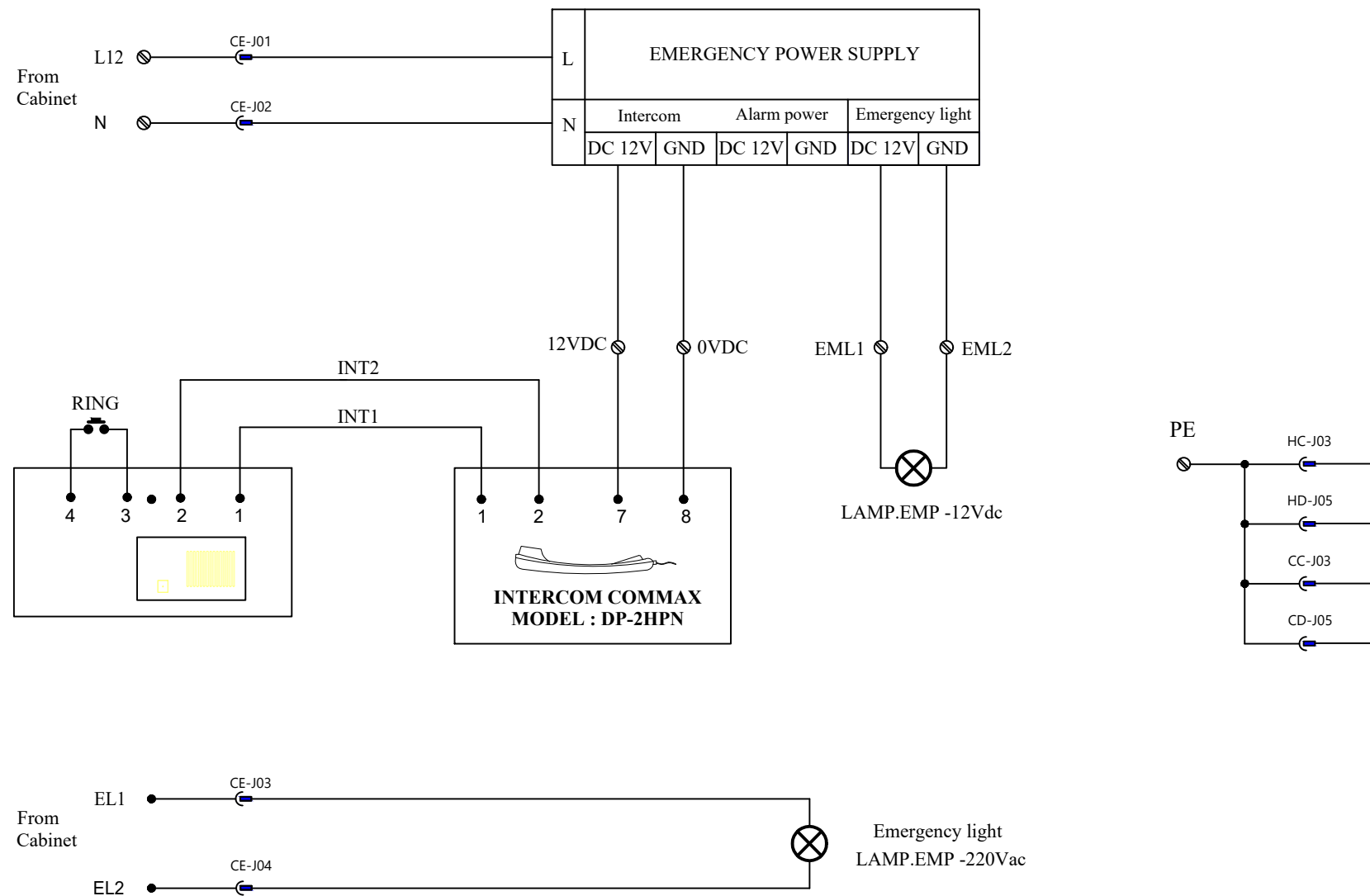
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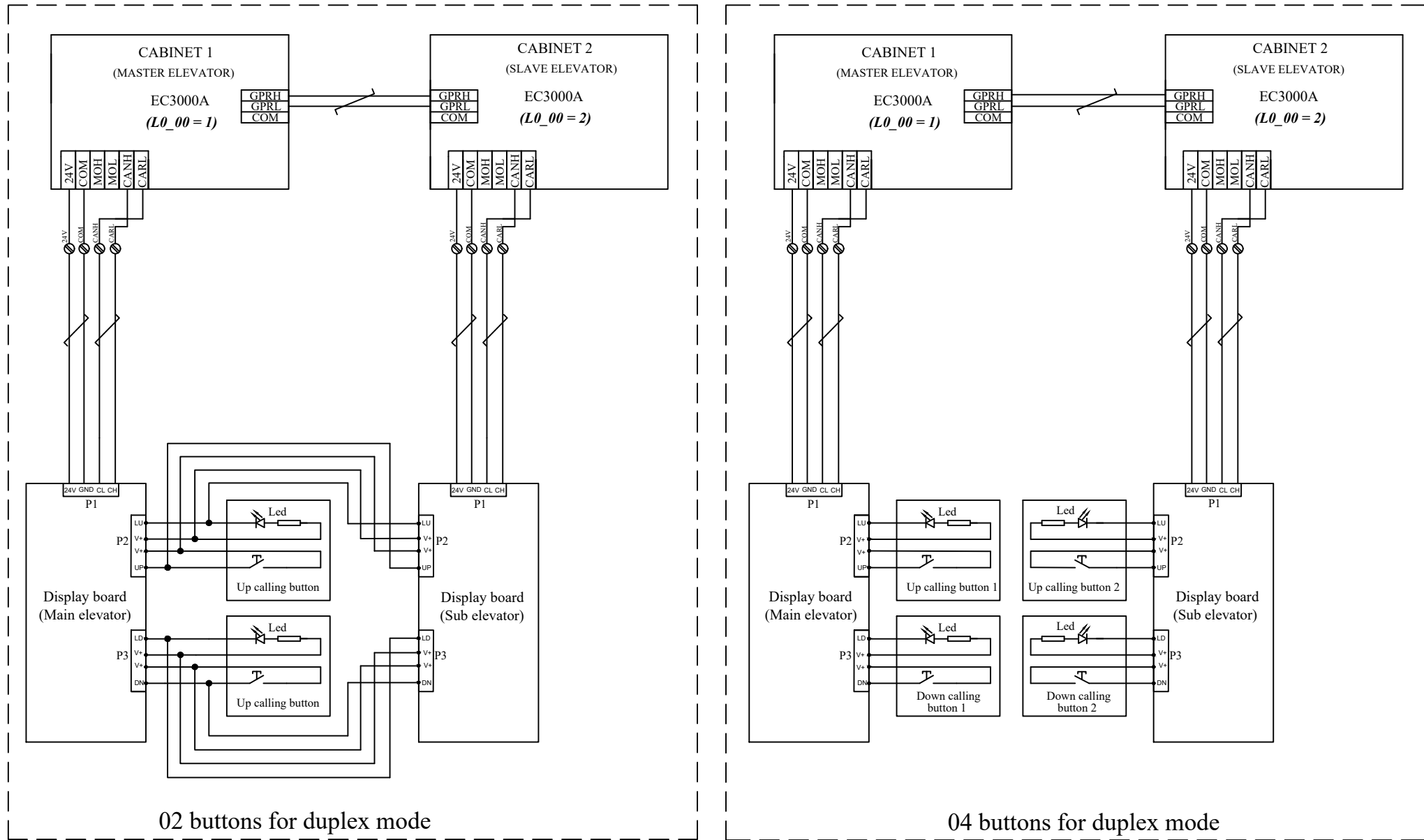
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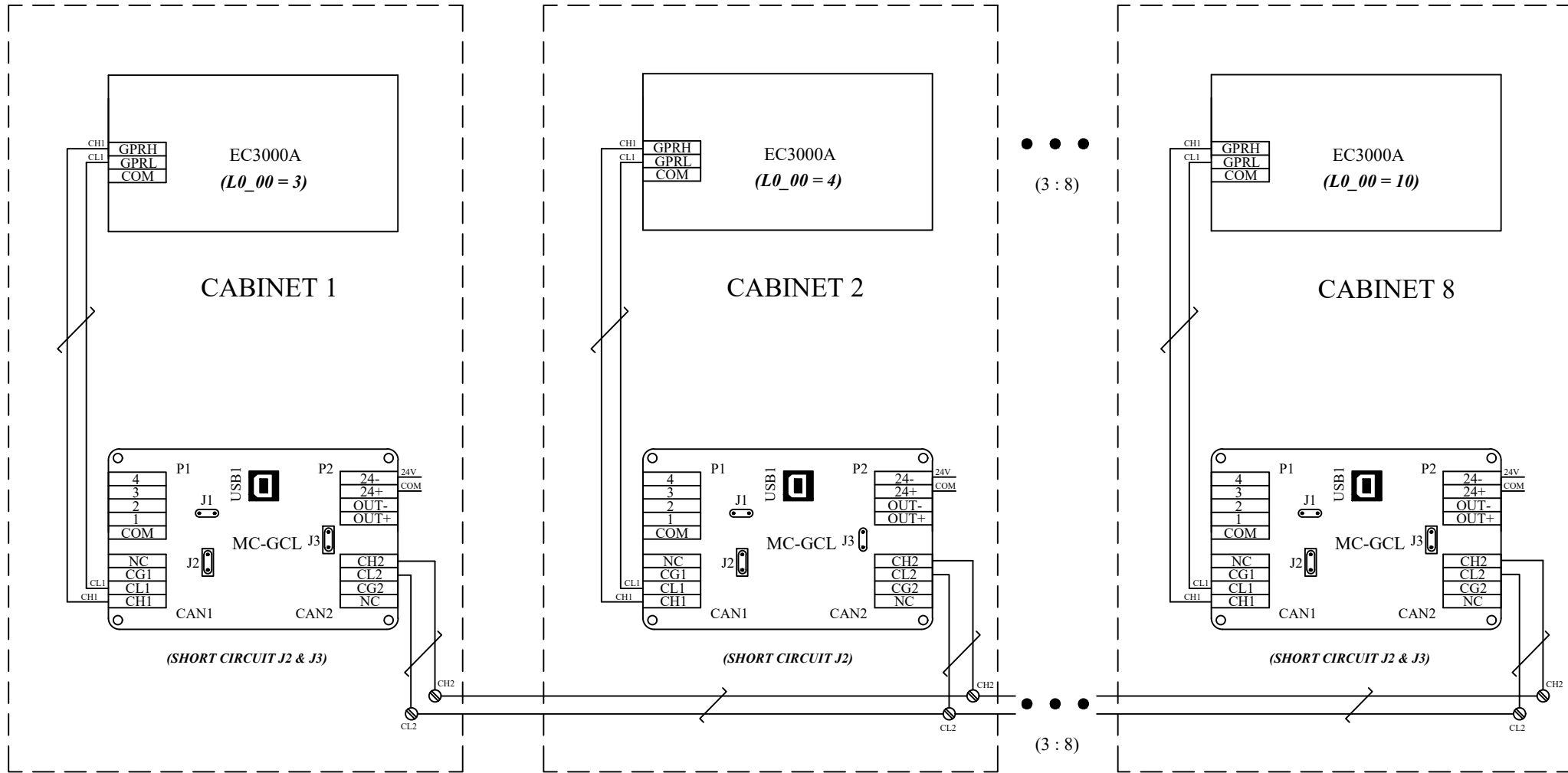
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					TOTAL: 23

DUPLEX CONTROL

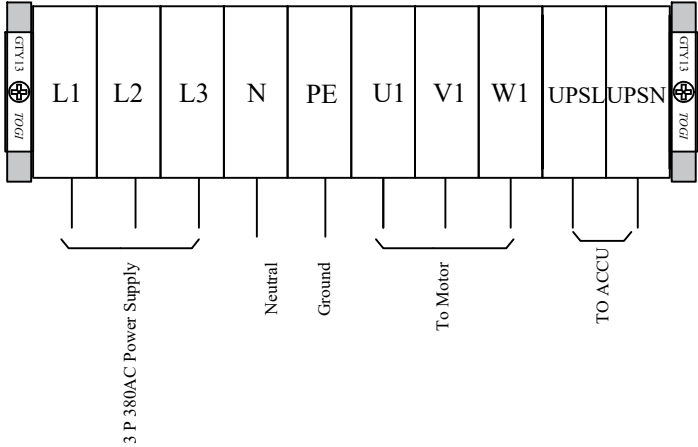
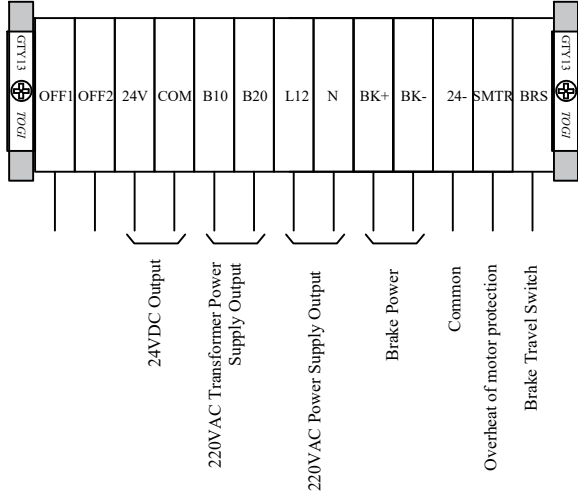
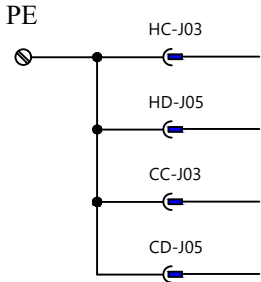
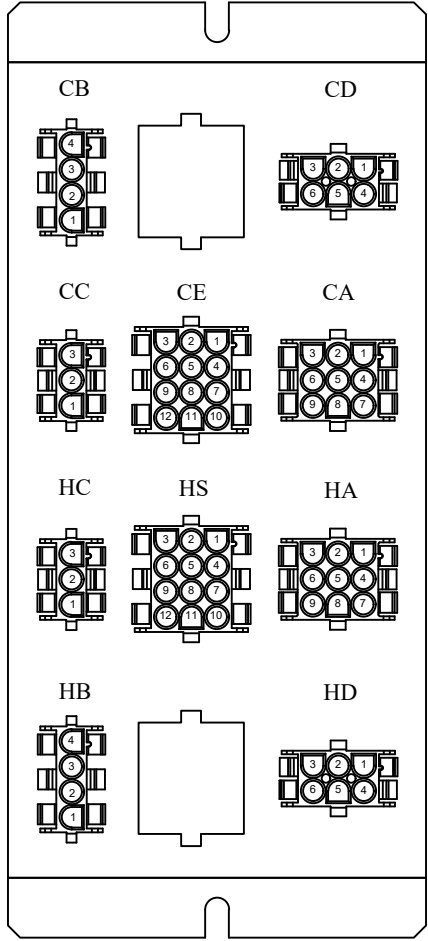


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APPROVAL:				19	23	

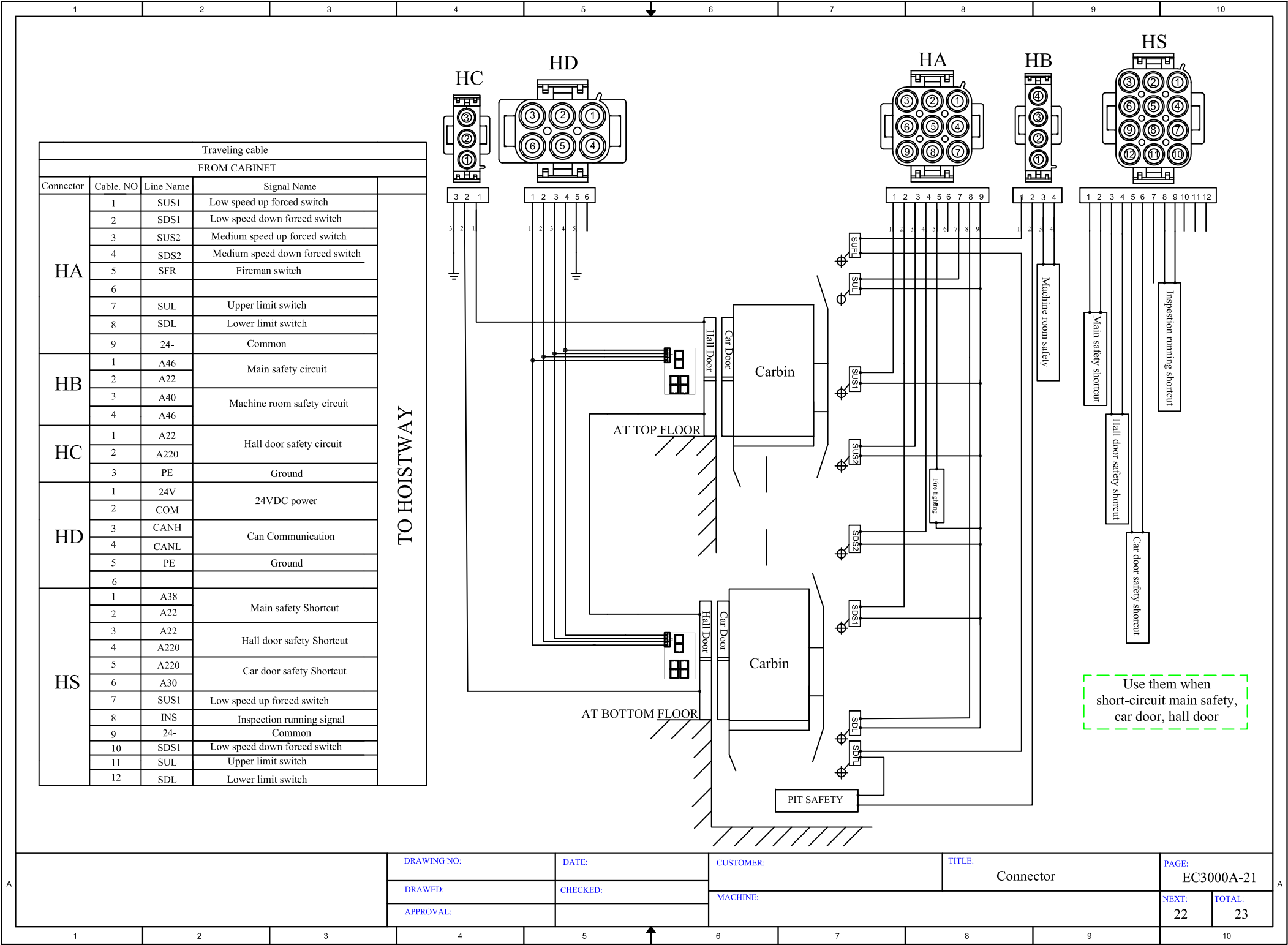
GROUP CONTROL

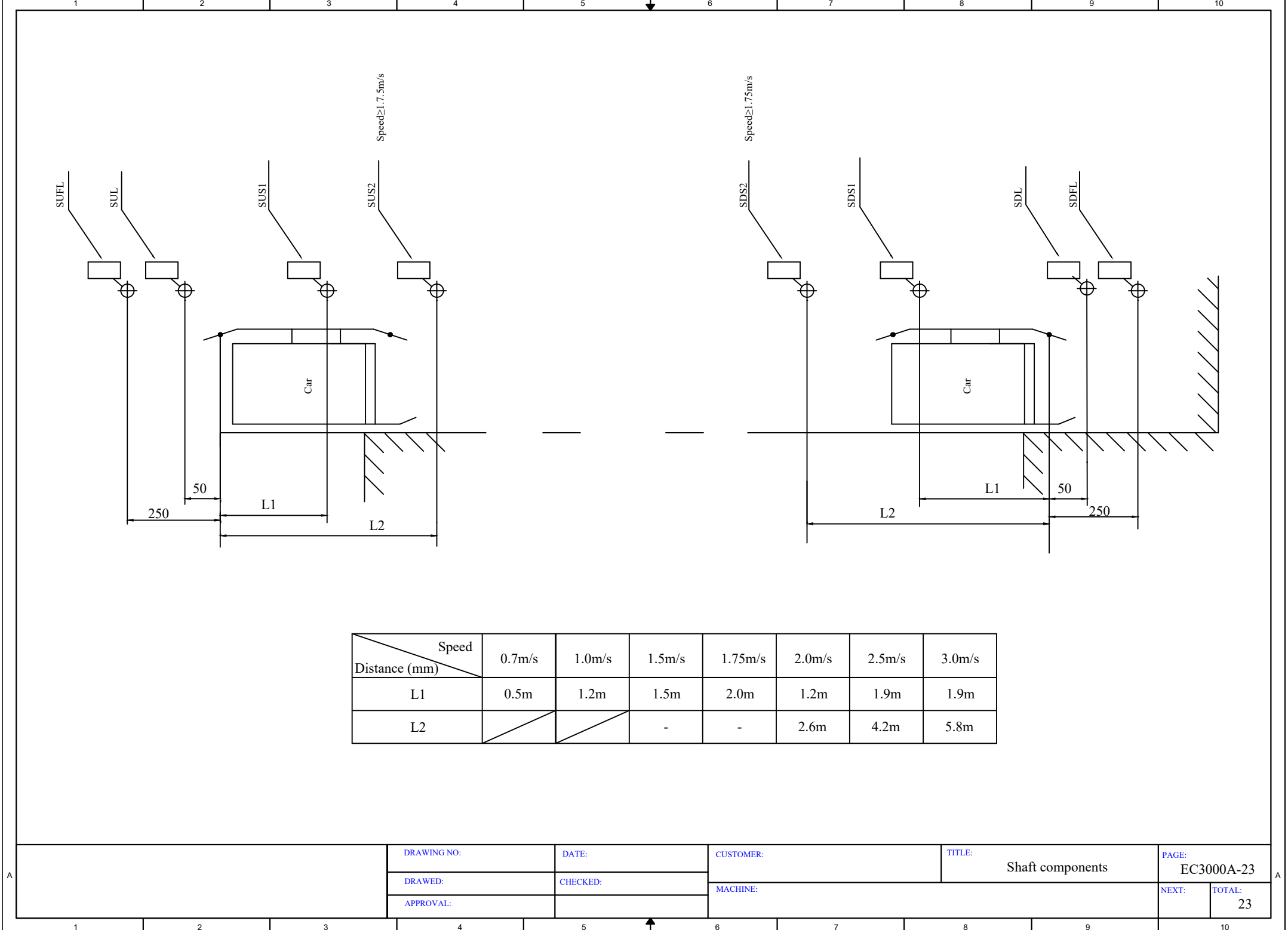


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CUSTOMER:

TITLE:

PAGE:

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MACHINE:

Shaft components

EC3000A-23

APPROVAL:

NEXT:

TOTAL:

23