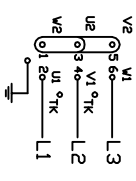
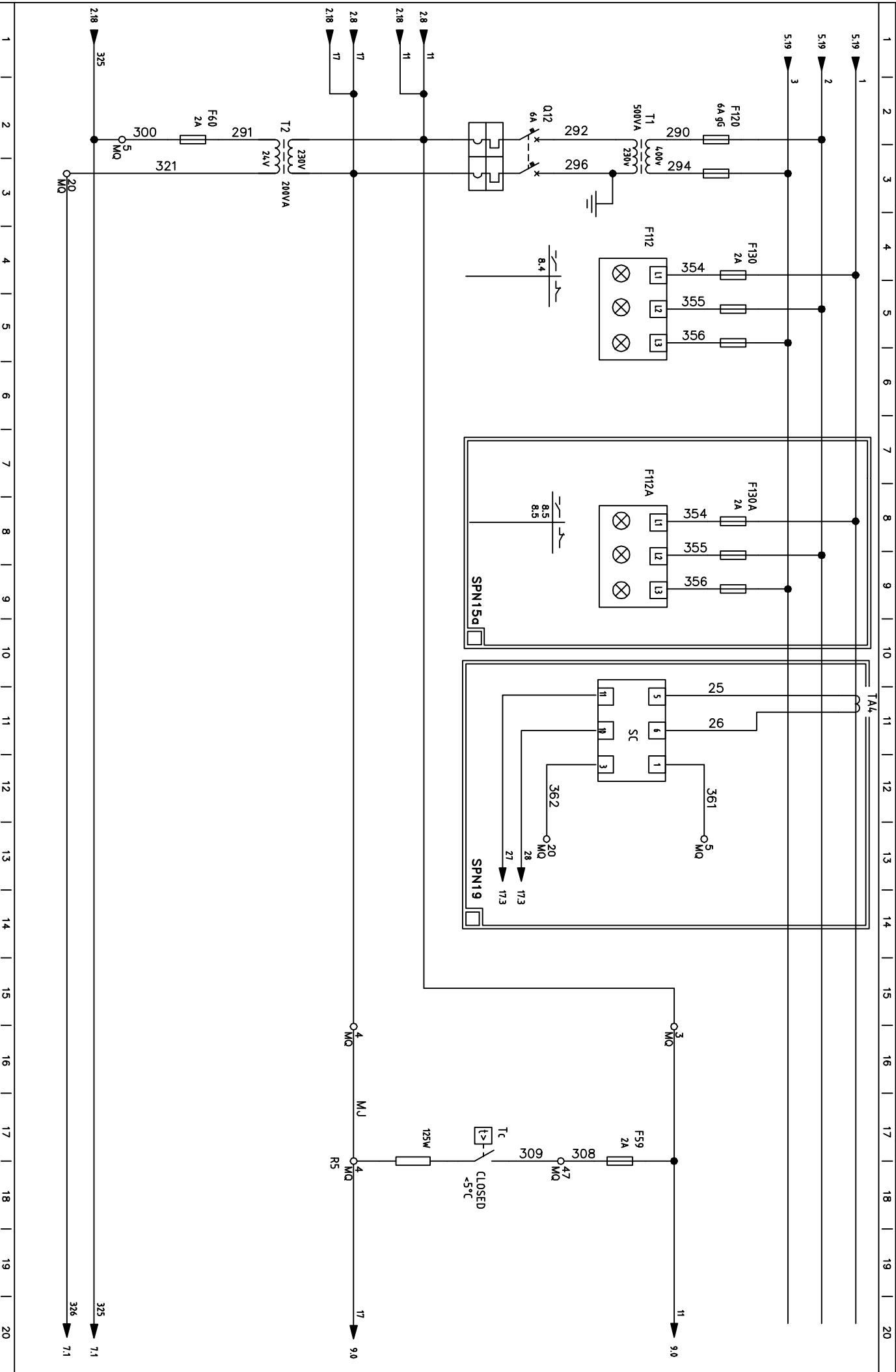


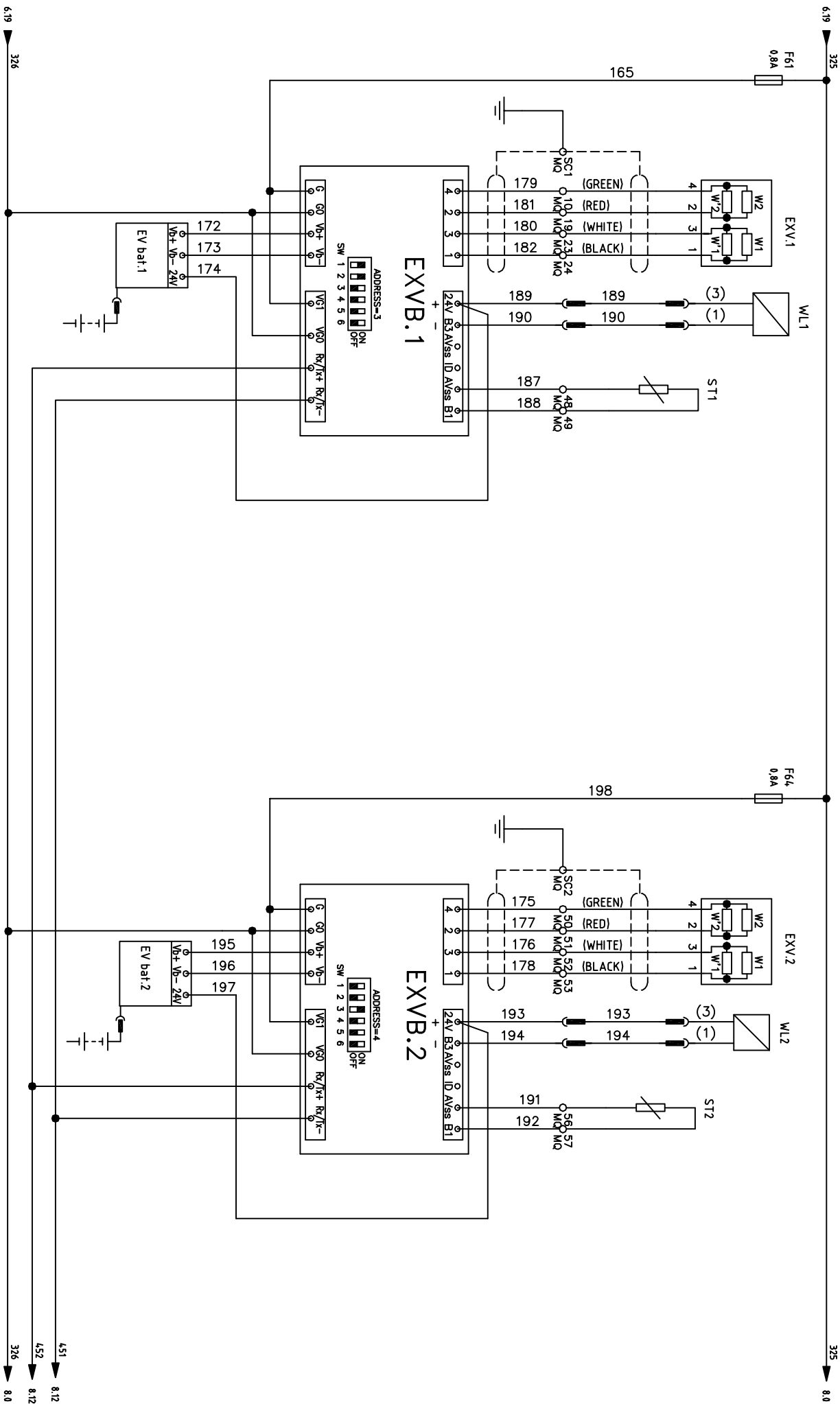
(A)



(B)



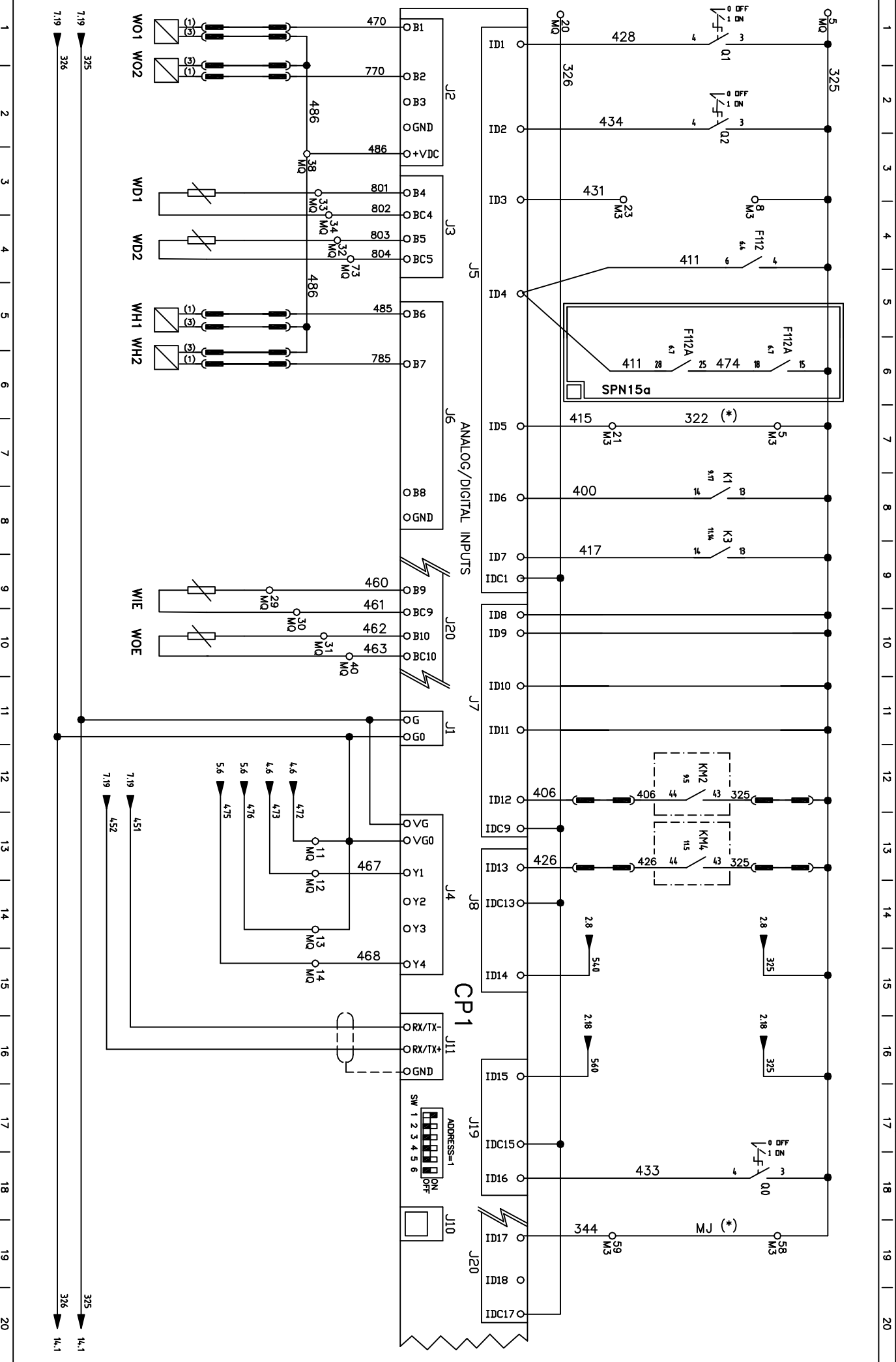
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6.19 326 6.19 325 0.8A F61 165 325 0.8A F64 198 325 8.0

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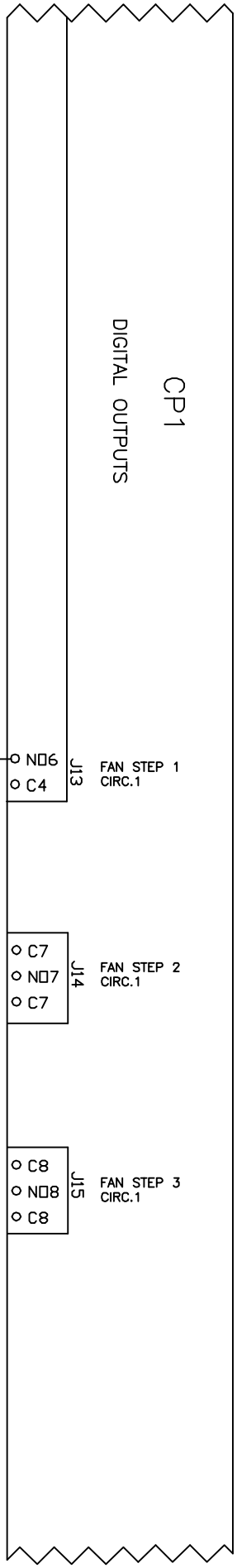
4.51 8.12
4.52 8.12
326 8.0



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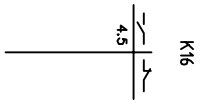
7.19 → 325
7.19 → 326
7.19 → 325
7.19 → 14.1
7.19 → 14.1
7.19 → 326
7.19 → 14.1

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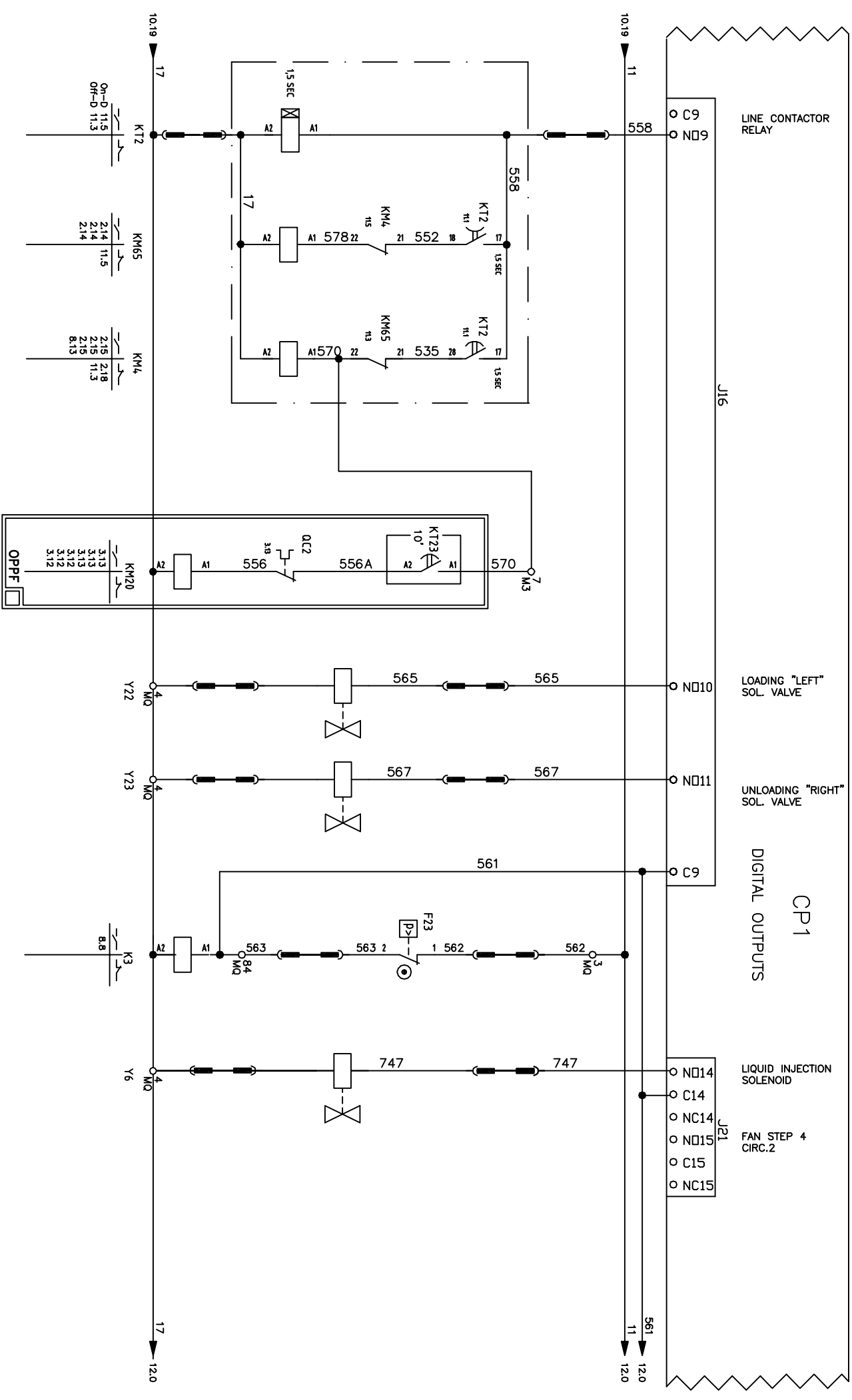


9.19 ◀ 11 11 ▶ 11.0

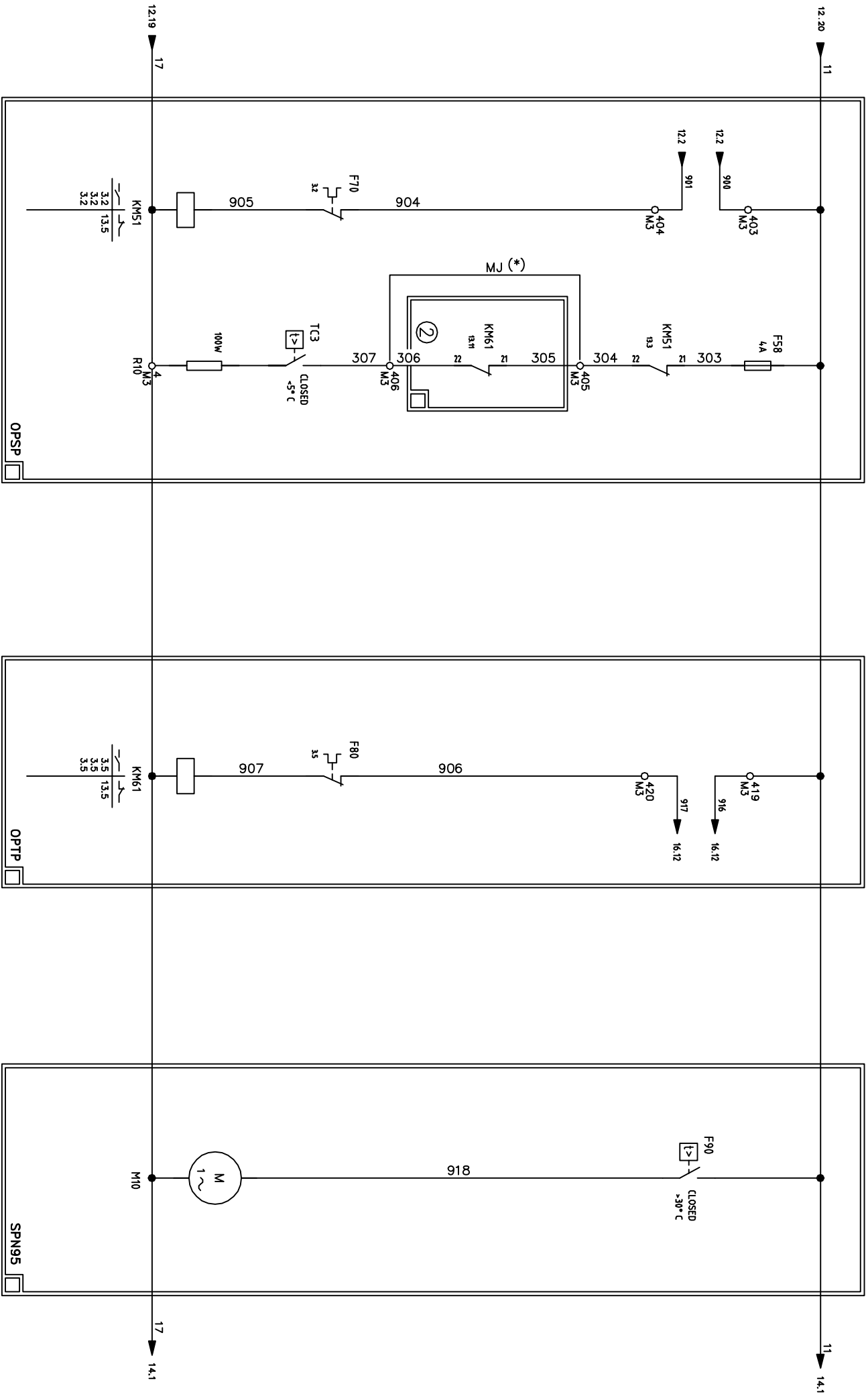
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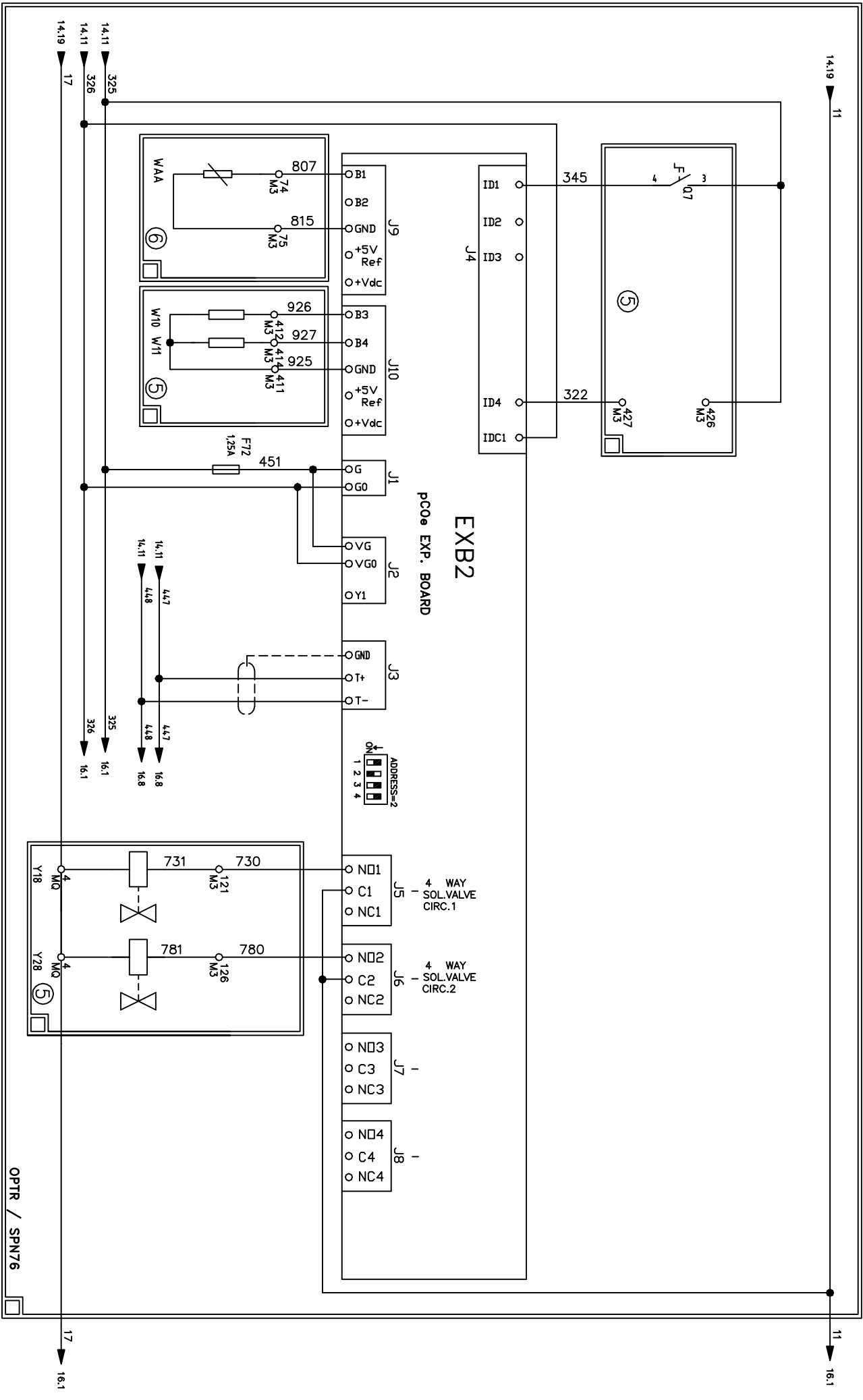


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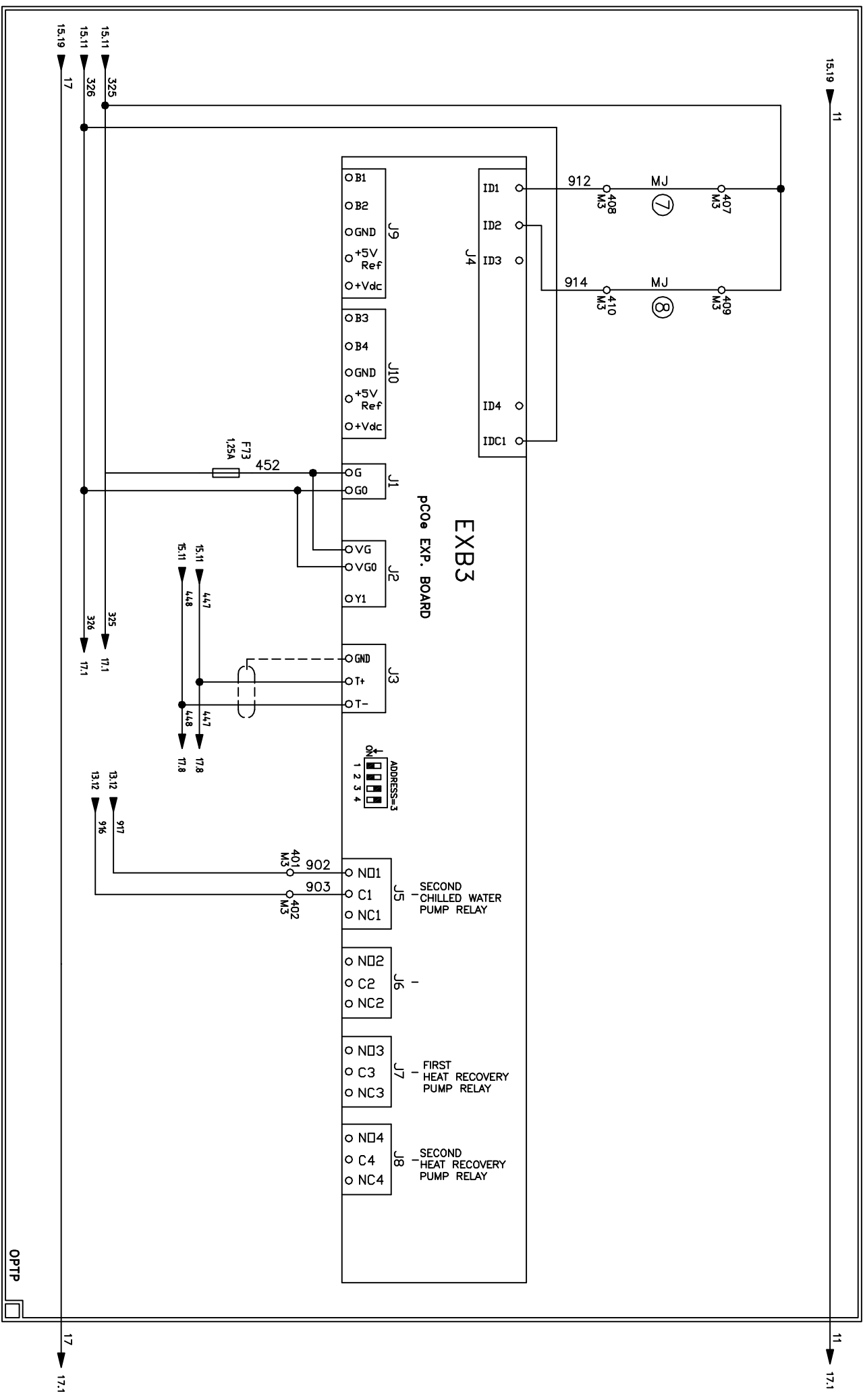


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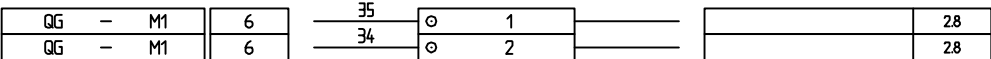


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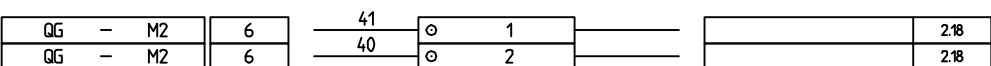
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1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

TERMINAL COMPRESSOR 1



TERMINAL COMPRESSOR 2



ELETRICAL PANEL TERMINAL

QG	-	MQ	-	11	○	SC1			72
QG	-	MQ	-	11	○	SC2			7.12
QG	-	MQ	-	11	○	3	562		11.14
QG	-	MQ	-	17	○	3	542		9.17
QG	-	MQ	-	17	○	4	17		11.15
QG	-	MQ	-	17	○	4	17		9.9
QG	-	MQ	-	17	○	4	17		9.10
QG	-	MQ	-	17	○	4	17		9.12
QG	-	MQ	-	17	○	4	17		11.10
QG	-	MQ	-	17	○	4	17		11.11
QG	-	MQ	-	17	○	4	17		14.5
QG	-	MQ	-	17	○	4	17		14.16
QG	-	MQ	-	17	○	4	17		15.12
QG	-	MQ	-	17	○	4	17		15.14
QG	-	MQ	-	361	○	5			6.12
QG	-	MQ	-	198	○	5	325		8.0
QG	-	MQ	-	179	○	10			7.3
QG	-	MQ	-	467	○	12	473		8.13
QG	-	MQ	-	50	○	13	476		8.14
QG	-	MQ	-	468	○	14	475		8.14
QG	-	MQ	-	181	○	19			7.3
QG	-	MQ	-	362	○	20			6.12
QG	-	MQ	-	326	○	20	326		8.0
QG	-	MQ	-	180	○	23			7.3
QG	-	MQ	-	182	○	24			7.4
QG	-	MQ	-	460	○	29			8.9
QG	-	MQ	-	461	○	30	461		8.9
QG	-	MQ	-	462	○	31			8.9
QG	-	MQ	-	803	○	32			8.3
QG	-	MQ	-	801	○	33			8.3
QG	-	MQ	-	802	○	34			8.3
QG	-	MQ	-	486	○	38			8.2
QG	-	MQ	-	463	○	40			8.10
QG	-	MQ	-	187	○	48			7.5
QG	-	MQ	-	188	○	49			7.6
QG	-	MQ	-	175	○	50			7.18
QG	-	MQ	-	177	○	51			7.18
QG	-	MQ	-	176	○	52			7.14
QG	-	MQ	-	178	○	53			7.14
QG	-	MQ	-	191	○	56			7.16
QG	-	MQ	-	192	○	57			7.16
QG	-	MQ	-	543	○	64	541		9.17
QG	-	MQ	-	804	○	73	804		8.4
QG	-	MQ	-	563	○	84	561		11.14
QG	-	MQ	6	11	○	3	11		6.15
QG	-	MQ	6	17	○	4	17		6.15
QG	-	MQ	6	MJ	○	4	MJ		6.17
QG	-	MQ	6	300	○	5	325		6.2
QG	-	MQ	6	321	○	20	326		6.2
QG	-	MQ	6	308	○	47	309		6.17

ITEM	DESCRIPTION	SHEET	Q.ty
C1	POWER FACTOR CORRECTION	3	1
C2	POWER FACTOR CORRECTION	3	1
CP1	ANALOG-DIGITAL INPUTS BOARD	8	1
CP2	ECONOMIZER KIT AND ADDITIONAL HARDWARE EXP BOARD 1	14	1
DRV1	SPEEDTROL	4	1
DRV2	SPEEDTROL	5	1
ESV1	ECONOMIZER SOLENOID VALVE COMP.1	14	1
ESV2	ECONOMIZER SOLENOID VALVE COMP.2	14	1
EV bat:1	ELECTRONIC EXPANSION BATTERY VALVE	7	1
EV bat:2	ELECTRONIC EXPANSION BATTERY VALVE	7	1
EXB2	HEAT RECOVERY CONTROL EXPANSION BOARD 2	15	1
EXB3	WATER PUMP CONTROL EXPANSION BOARD 3	16	1
EXB4	FAN STEP CONTROL EXPANSION BOARD 4	17	1
EXV.1	ELECTRONIC EXPANSION VALVE	7	1
EXV.2	ELECTRONIC EXPANSION VALVE	7	1
EXVB.1	ELECTRONIC EXPANSION VALVE BOARD	7	1
EXVB.2	ELECTRONIC EXPANSION VALVE BOARD	7	1
F1	COMPRESSOR FUSES	2	1
F2	COMPRESSOR FUSES	2	1
F9	PUMP FUSES	3	1
F10	FUSES	2	1
F12	PRESSURE SWITCH	14	1
F13	HIGH PRESSURE SWITCH	9	1
F20	FUSES	2	1
F22	PRESSURE SWITCH	14	1
F23	HIGH PRESSURE SWITCH	11	1
F51	THERMAL RELAY	2	1
F52	THERMAL RELAY	2	1
F58	PUMP HEATER FUSE	13	1
F59	EVAPORATOR HEATER FUSE	6	1
F60	PROTECTION AUX CIRCUIT FUSE	6	1
F61	PROTECTION AUXILIARY CIRCUIT FUSE	7	1
F63	PROTECTION AUXILIARY CIRCUIT FUSE	14	1
F64	PROTECTION AUXILIARY CIRCUIT FUSE	7	1
F70	PUMP MAGNETOTHERMAL	3	1
F72	PROTECTION AUXILIARY CIRCUIT	15	1
F73	PROTECTION AUXILIARY CIRCUIT	16	1
F74	PROTECTION AUXILIARY CIRCUIT	17	1
F80	PUMP MAGNETOTHERMAL	3	1
F90	TERMOSTAT	13	1
F9A	PUMP FUSES	3	1
F100	FAN FUSES	4	1
F112	PHASE VOL.T MONITOR	6	1
F120	TRANSFORMER 1 PROTECTION	6	1
F130	PHASE VOL.T MONITOR FUSE	6	1

LEGEND

MASTER

ITEM	DESCRIPTION	SHEET	Q.ty
F200	FAN FUSES	5	1
F112A	PHASE VOLT MONITOR	6	1
F130A	PHASE VOLT MONITOR FUSE	6	1
FC1	POWER FACTOR COMPRESSOR FUSES 1	3	1
FC2	POWER FACTOR COMPRESSOR FUSES 2	3	1
K1	AUXILIARY RELAY	9	1
K3	AUXILIARY RELAY	11	1
K16	FAN MOTOR CONTACTOR	10	1
K26	FAN MOTOR CONTACTOR	12	1
KM2	COMPRESSOR CONTACTORS	9	1
KM4	COMPRESSOR CONTACTORS	11	1
KM10	POWER FACTOR CORRECTION CONTACTORS	9	1
KM20	POWER FACTOR CORRECTION CONTACTORS	11	1
KM51	PRIMARY PUMP CONTACTOR	13	1
KM55	COMPRESSOR CONTACTORS	9	1
KM61	SECONDARY PUMP CONTACTOR	13	1
KM65	COMPRESSOR CONTACTORS	11	1
KT1	TIME DELAY RELAY	9	1
KT2	TIME DELAY RELAY	11	1
M1	COMPRESSOR 1	2	1
M2	COMPRESSOR 2	2	1
M10	FORCED VENTILATION	13	1
M11	FAN MOTOR	4	1
M12	FAN MOTOR	4	1
M13	FAN MOTOR	4	1
M14	FAN MOTOR	4	1
M21	FAN MOTOR	5	1
M22	FAN MOTOR	5	1
M23	FAN MOTOR	5	1
M24	FAN MOTOR	5	1
MP1	MOTOR THERMAL PROTECTION 1	2	1
MP2	MOTOR THERMAL PROTECTION 2	2	1
P1	PUMP 1	3	1
P2	PUMP 2	3	1
Q0	ON-OFF UNIT SWITCH	8	1
Q1	ON-OFF COMPRESSOR SWITCH	8	1
Q2	ON-OFF COMPRESSOR SWITCH	8	1
Q7	ON-OFF SWITCH	15	1
Q10	MAIN SWITCH	2	1
Q12	AUTOMATIC CIRCUIT BREAKER	6	1
Q15	FAN CIRCUIT BREAKER	4	1
Q16	FAN CIRCUIT BREAKER	4	1
Q17	FAN CIRCUIT BREAKER	4	1
Q18	FAN CIRCUIT BREAKER	4	1
Q25	FAN CIRCUIT BREAKER	5	1

LEGEND

MASTER

ITEM	DESCRIPTION	SHEET	Q.ty
Q26	FAN CIRCUIT BREAKER	5	1
Q27	FAN CIRCUIT BREAKER	5	1
Q28	FAN CIRCUIT BREAKER	5	1
QC1	THERMAL RELAY	3	1
QC2	THERMAL RELAY	3	1
R1	COMPRESSOR CRANKCASE HEATER CIRC.1	2	1
R2	COMPRESSOR CRANKCASE HEATER CIRC.2	2	1
R5	EVAPORATOR HEATER	6	1
R10	PUMP HEATER	13	1
SC	CURRENT LIMIT	6	1
ST1	SUCTION TEMPERATURE SENSOR CIRC. 1	7	1
ST2	SUCTION TEMPERATURE SENSOR CIRC. 2	7	1
T1	400/115v TRANSFORMER	6	1
T2	230v/24v TRANSFORMER	6	1
TA4	AMMETER TRANSFORMER	6	1
Tc	TERMOSTAT	6	1
TC3	TERMOSTAT	13	1
W1	COMPRESSOR THERMISTORS 1	2	1
W2	COMPRESSOR THERMISTORS 2	2	1
W10	ENTERING HR WATER SENSOR	15	1
W11	LEAVING HR WATER SENSOR	15	1
WAA	AIR AMBIENT	15	1
WD1	DISCHARGE SENSOR CIR. 1	8	1
WD2	DISCHARGE SENSOR CIR. 2	8	1
WH1	HIGH PRESSURE TRANSDUCER CIR.1	8	1
WH2	HIGH PRESSURE TRANSDUCER CIR.2	8	1
WIE	ENTERING EVAPORATOR WATER SENSOR	8	1
WL1	LOW PRESSURE TRANSDUCER CIRC. 1	7	1
WL2	LOW PRESSURE TRANSDUCER CIRC. 2	7	1
W01	OIL PRESSURE TRANSDUCER CIR.1	8	1
W02	OIL PRESSURE TRANSDUCER CIR.2	8	1
W0E	LEAVING EVAPORATOR WATER SENSOR	8	1
Y5	LIQUID INJECTION SOLENOID VALVE CIRC.1	9	1
Y6	LIQUID INJECTION SOLENOID VALVE CIRC. 2	11	1
Y12	LOADER SOLENOID VALVE CIRC.1	9	1
Y13	UNLOADER SOLENOID VALVE CIRC. 1	9	1
Y18	4 WAY VALVE COMP.1	15	1
Y22	LOADER SOLENOID VALVE CIRC.2	11	1
Y23	UNLOADER SOLENOID VALVE CIRC. 2	11	1
Y28	4 WAY VALVE COMP.2	15	1

Standard compressor			
FUSES + OVERCURRENT	3118	3120	3121
F1	100 A	100 A	125 A
F2	100 A	100 A	125 A
F51	49 A	49 A	65 A
F52	49 A	49 A	65 A

Standard fan			
FUSES + OVERCURRENT	FANS-TEC 0700	FANS-TEC 0700	
	6P (HIGH SPEED)	8P (LOW SPEED)	
F100	20 A	20 A	
F200	20 A	20 A	
015+22	2,7 A	1,6 A	
025+32	2,7 A	1,6 A	



OPTIONAL EQUIPMENT



EQUIPMENT INSTALLED

FIELD WIRING CONNECTIONS

- ⑦ FIRST PUMP ALARM
- ⑧ SECONDARY PUMP ALARM

(*) REMOVE THIS WIRE OR MU IF THE OPTION IS REQUESTED



ELECTRICAL EQUIPMENT
INSTALLED ON COMPRESSOR
TERMINALS BOX

⑨ MANUAL RESET

LIST OF OPTIONS

- ① HIGH SPEED FAN CONNECTIONS
ST – LN – HA VERSION
A – H – N VERSION

- ② LOW SPEED FAN CONNECTIONS
XN VERSION

- ③ INSTALL WITH EXPANSION BOARD ONLY

- ④ INSTALL WITH SECONDARY PUMP ONLY

- ⑤ INSTALL WITH "LOW PRESSURE SWITCH" ONLY

- ⑥ INSTALL WITH "COMP. ALARM KIT" ONLY

- ⑦ INSTALL WITH "HEAT RECOVERY KIT"

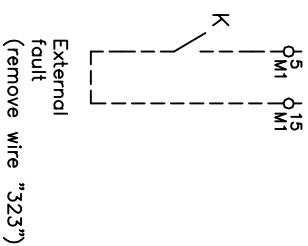
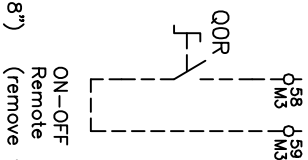
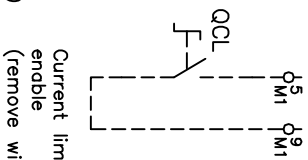
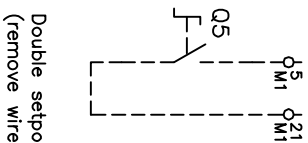
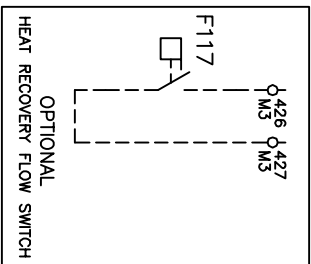
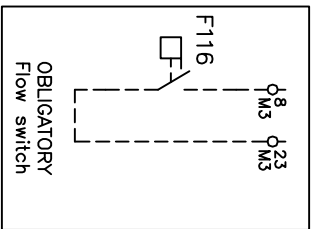
- ⑧ INSTALL WITH "SPN76"

Standard pumps					
FUSES + OVERCURRENT	1,5 kW	2,2 kW	3 kW	4 kW	5,5 kW
F9	16 A	20 A	25 A	35 A	35 A
F9A	16 A	20 A	25 A	35 A	35 A
F70	3,5 A	5 A	6,5 A	8,5 A	11,5 A
F80	3,5 A	5 A	6,5 A	8,5 A	11,5 A

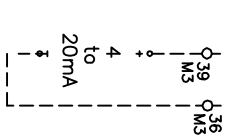
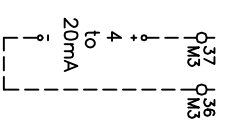
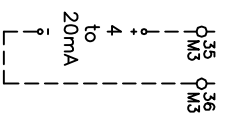
Option	Description
OPBT	Buffer tank
OPLA	Low Ambient
OPPF	Power Factor Correction
OPSC	Single Contact
OPSP	Single Pump
OPTP	Twin Pump or Ducl Pump
OPTR	Total Recovery
OP57	A/V Meter
SPN11	Thermal Relay
SPN15a	Variable Phase monitor
SPN19	Current limit
SPN76	OAT Sensor
SPN79	External Fault Alarm
SPN95	Forced Ventilatin
SPN96	Anticondensate Heater

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

Digital input terminals

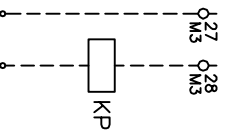


Analog input terminals

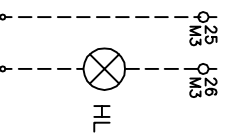


Digital output terminals

Pump contact
Maximum load:
2A-230VAC



Alarm NO (default)
Maximum load:
2A-230VAC



1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20