

SHEET	DESCRIPTION
1	FRONT PAGE
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3	KIT PUMPS AND POWER FACTOR CORRECTION
4	CIRCUIT FAN POWER SUPPLY 1
5	CIRCUIT FAN POWER SUPPLY 2
6	UNIT CONTROL CIRCUIT POWER SUPPLY
7	ANALOG-DIGITAL INPUTS BOARD 1
8	CONTROL CIRCUIT COMPRESSOR 1
9	CONTROL CIRCUIT FAN 1
10	CONTROL CIRCUIT COMPRESSOR 2
11	CONTROL CIRCUIT FAN 2
12	PUMPS CONTROL
13	ECONOMIZER KIT AND ADDITIONAL HARDWARE EXP. BOARD N° 1
14	HEAT RECOVERY CONTROL EXP. BOARD N° 2
15	WATER PUMP CONTROL EXP. BOARD N° 3
16	FAN STEP CONTROL EXP. BOARD N° 4
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18	TERMINALS M3
19	TERMINALS M4
20	LEGEND
21	LEGEND
22	LEGEND
23	LEGEND
24	NOTE
25	FIELD WIRING CONNECTION

WIRING DIAGRAM

EWAD 400 ÷ 600 AJYNN

400 440 480 500 550 600

EWAD 420 ÷ 600 AJYNN/H

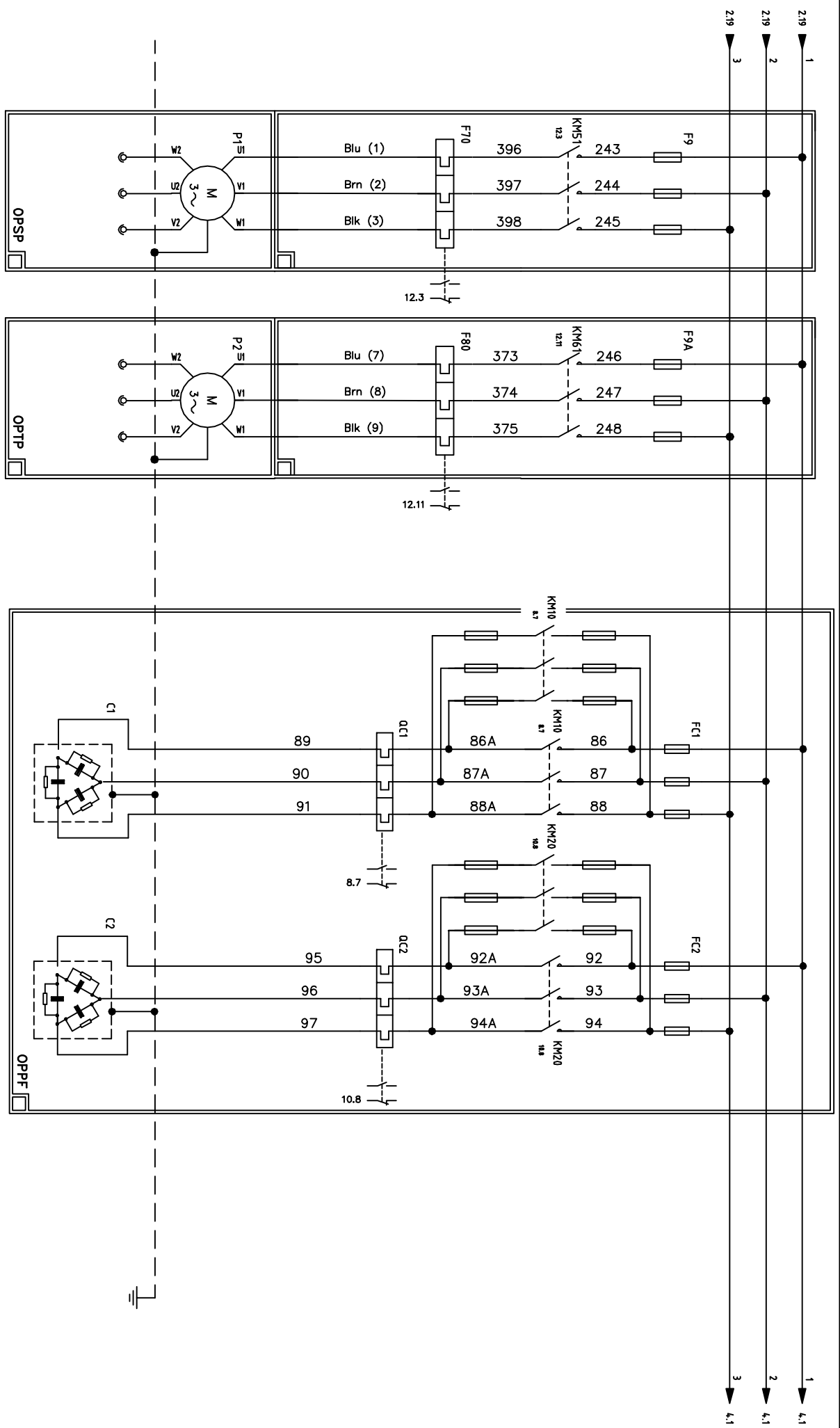
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EWAD 500 ÷ 650 AJYNN/A

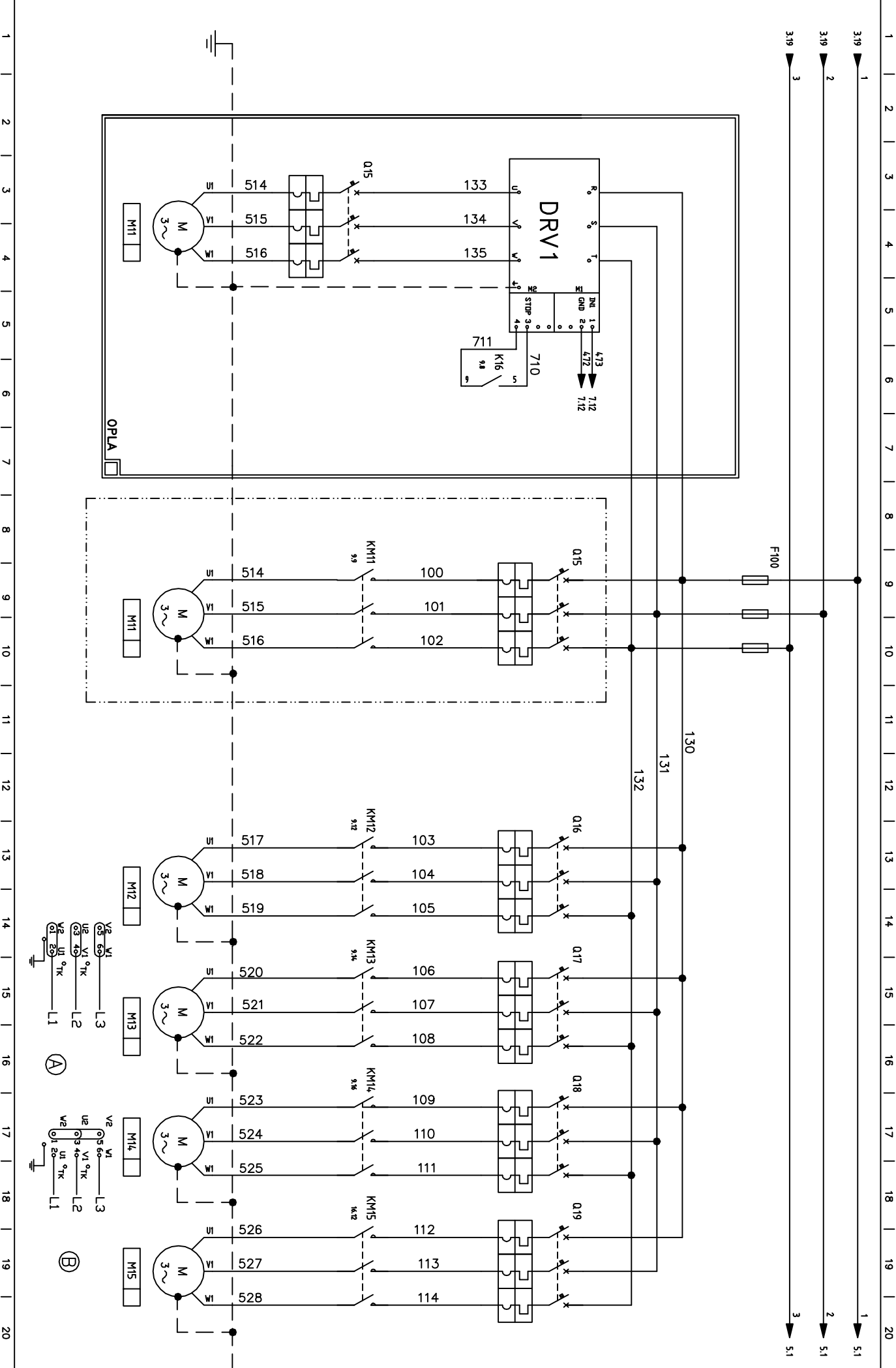
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— STANDARD VERSION WITH THERMOSTATIC EXPANSION VALVE —

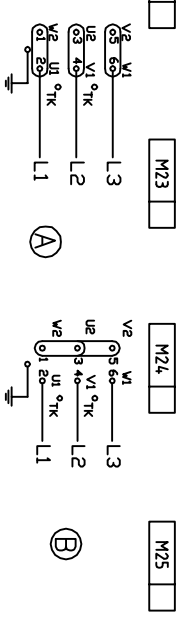
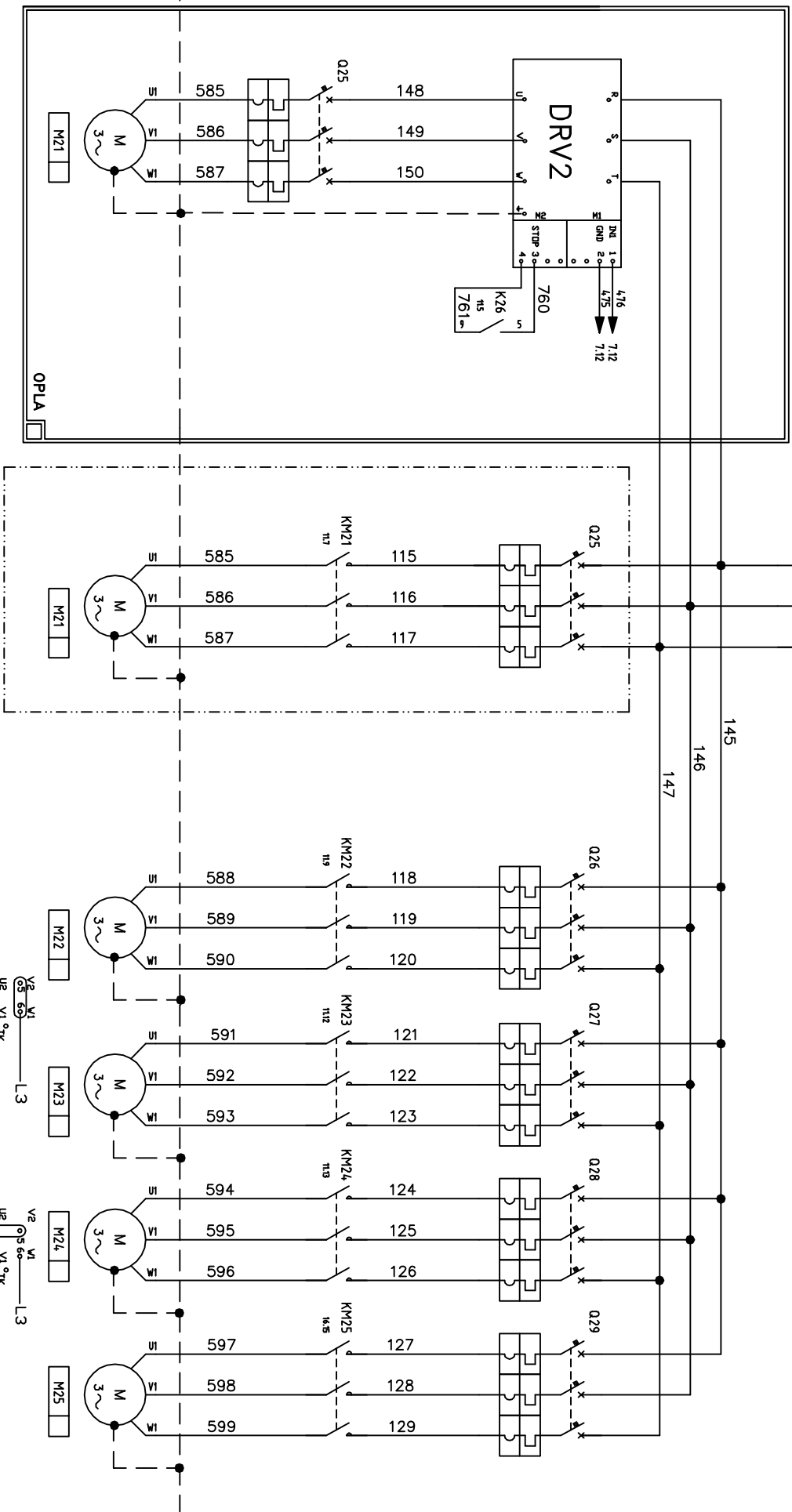
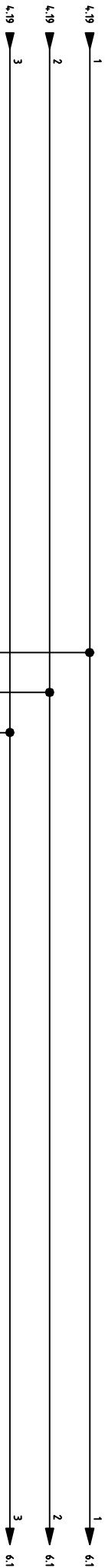
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DAIKIN EUROPE NV		<small>This document is reserved property. Reproduction is prohibited without our authorization or activity freedom by law.</small>		CHECK:	PASSED.
REV.	DATE	HISTORY REVISIONS	DWG.	CHECK	PASSED.
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19	20				



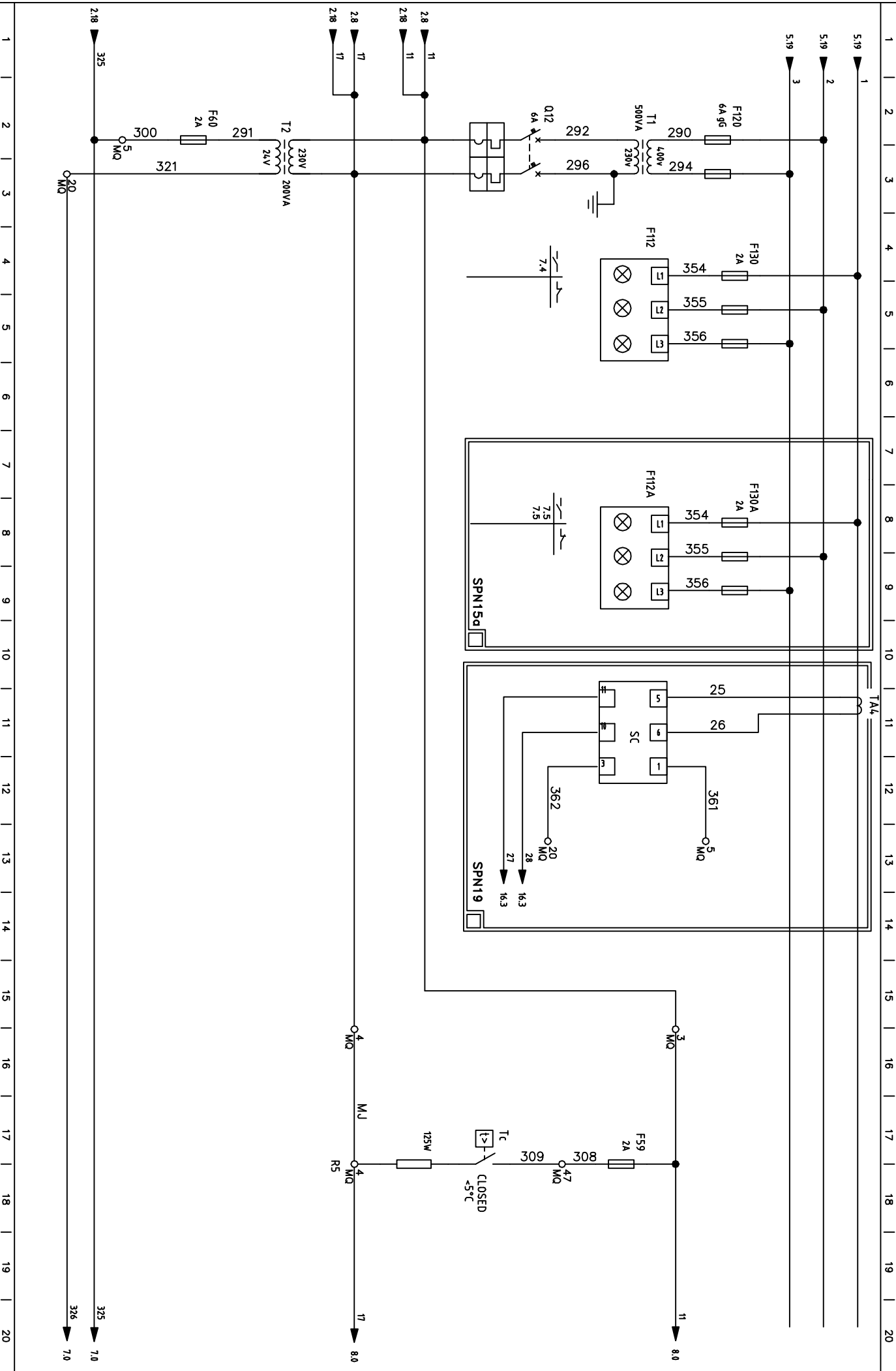
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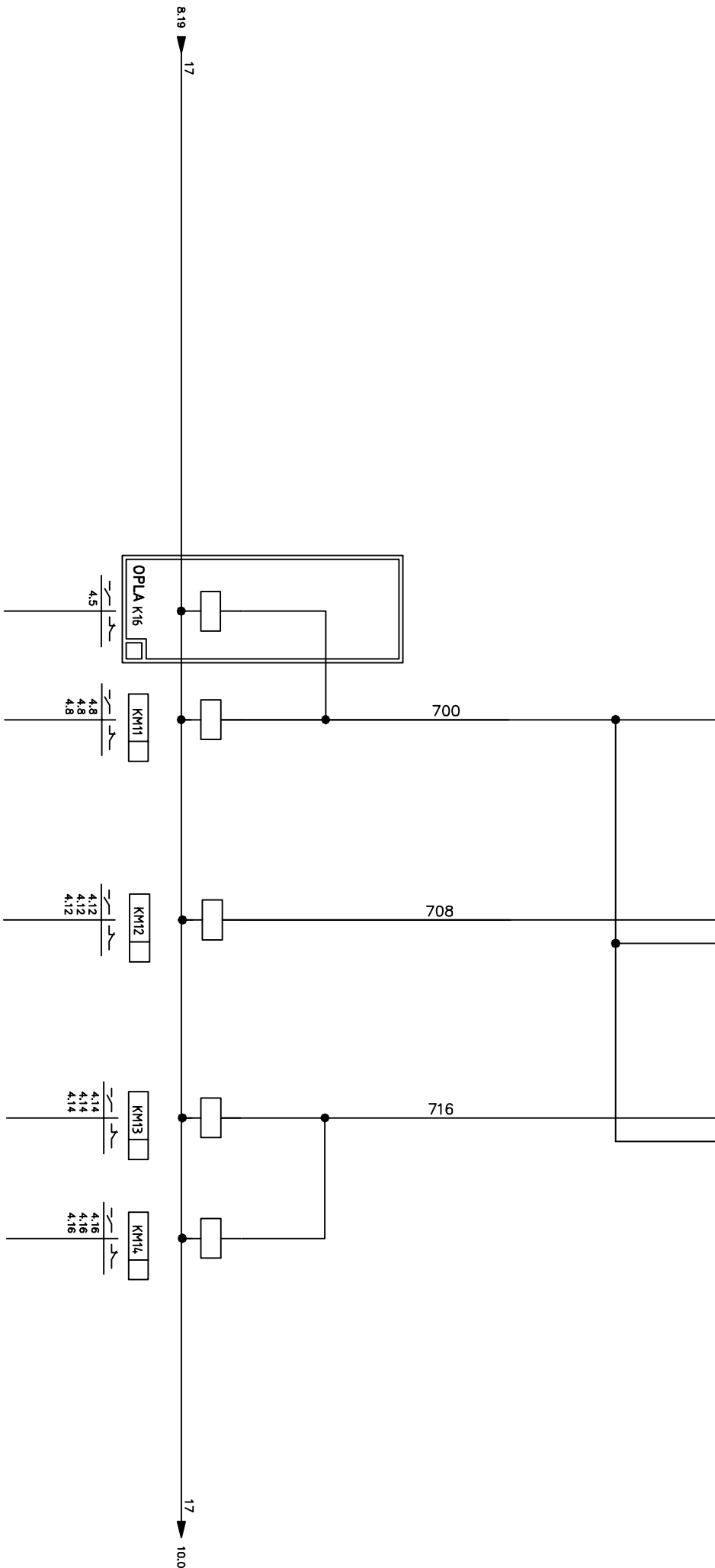
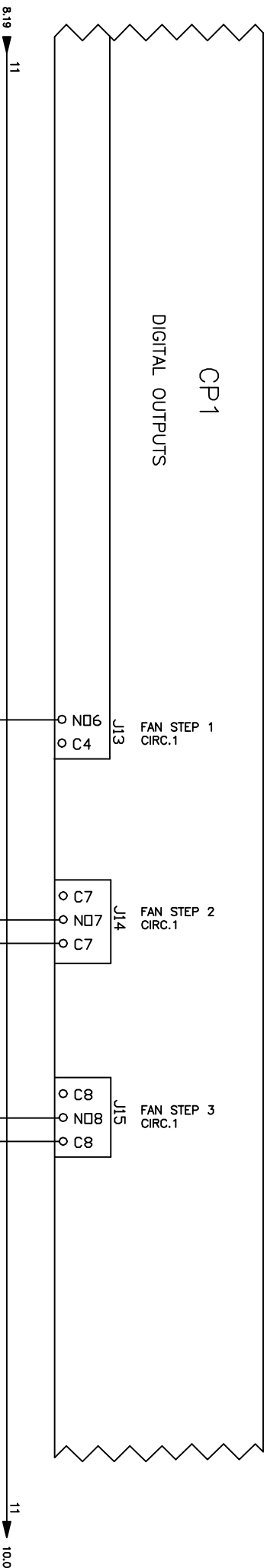
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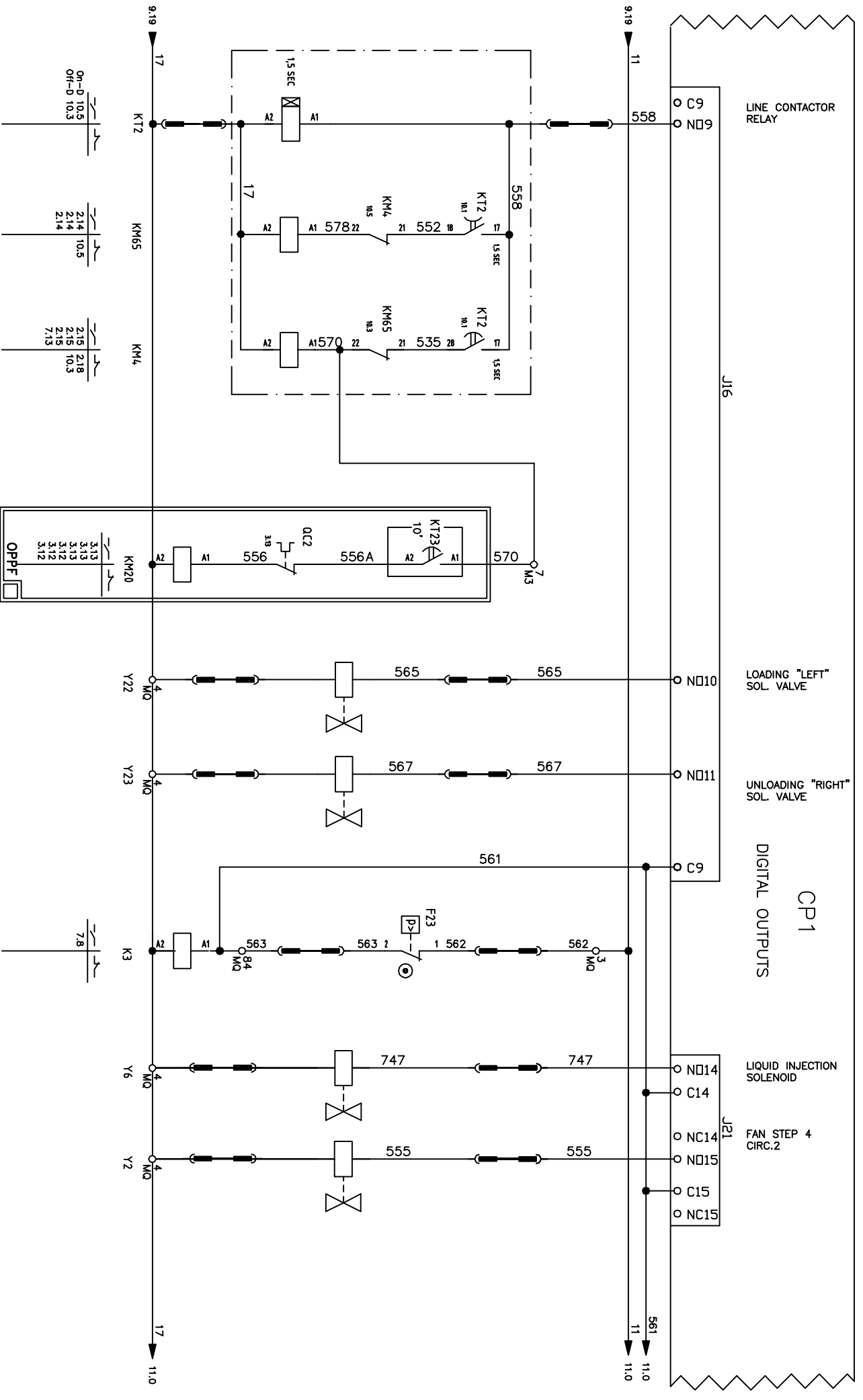
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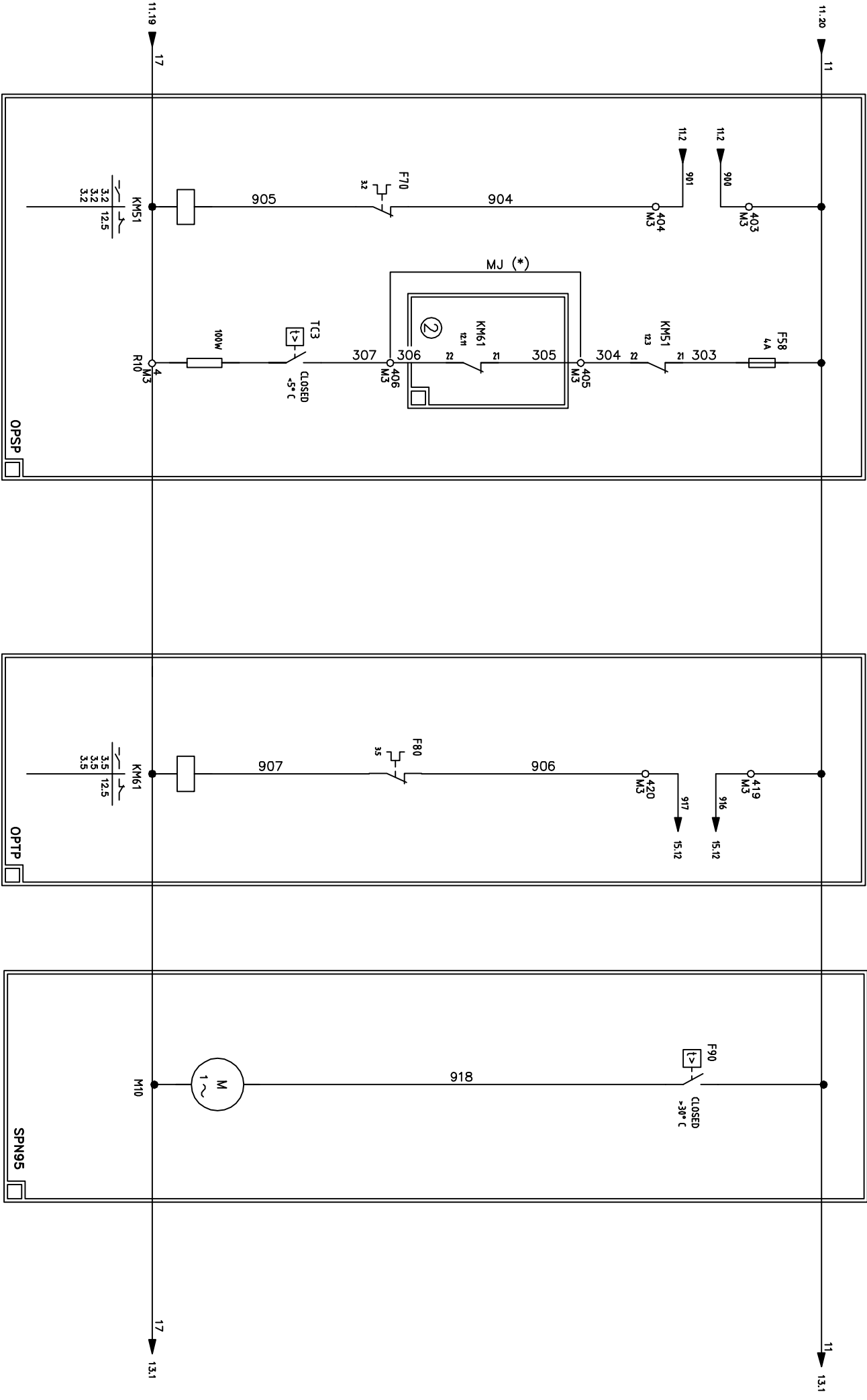
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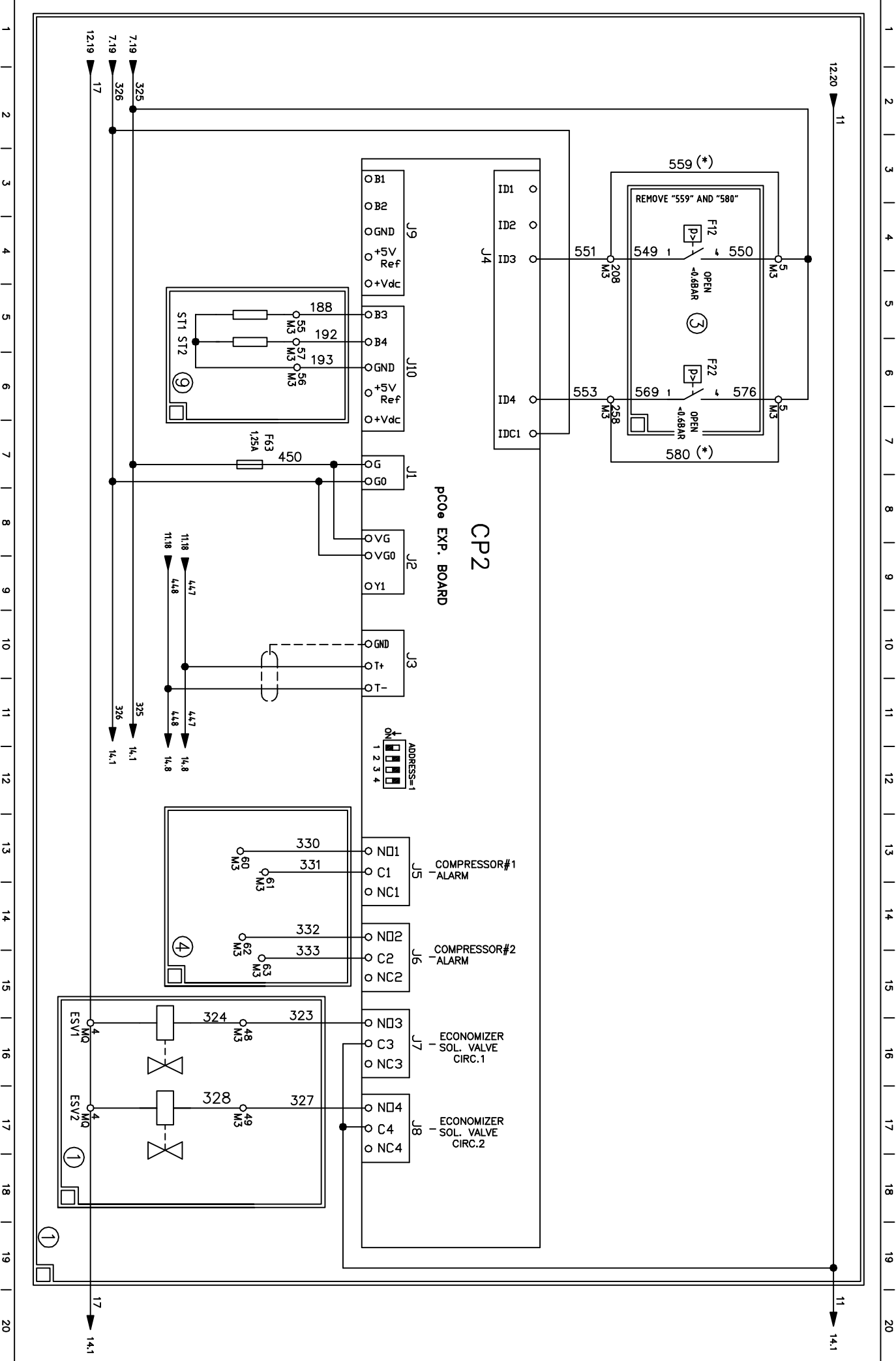
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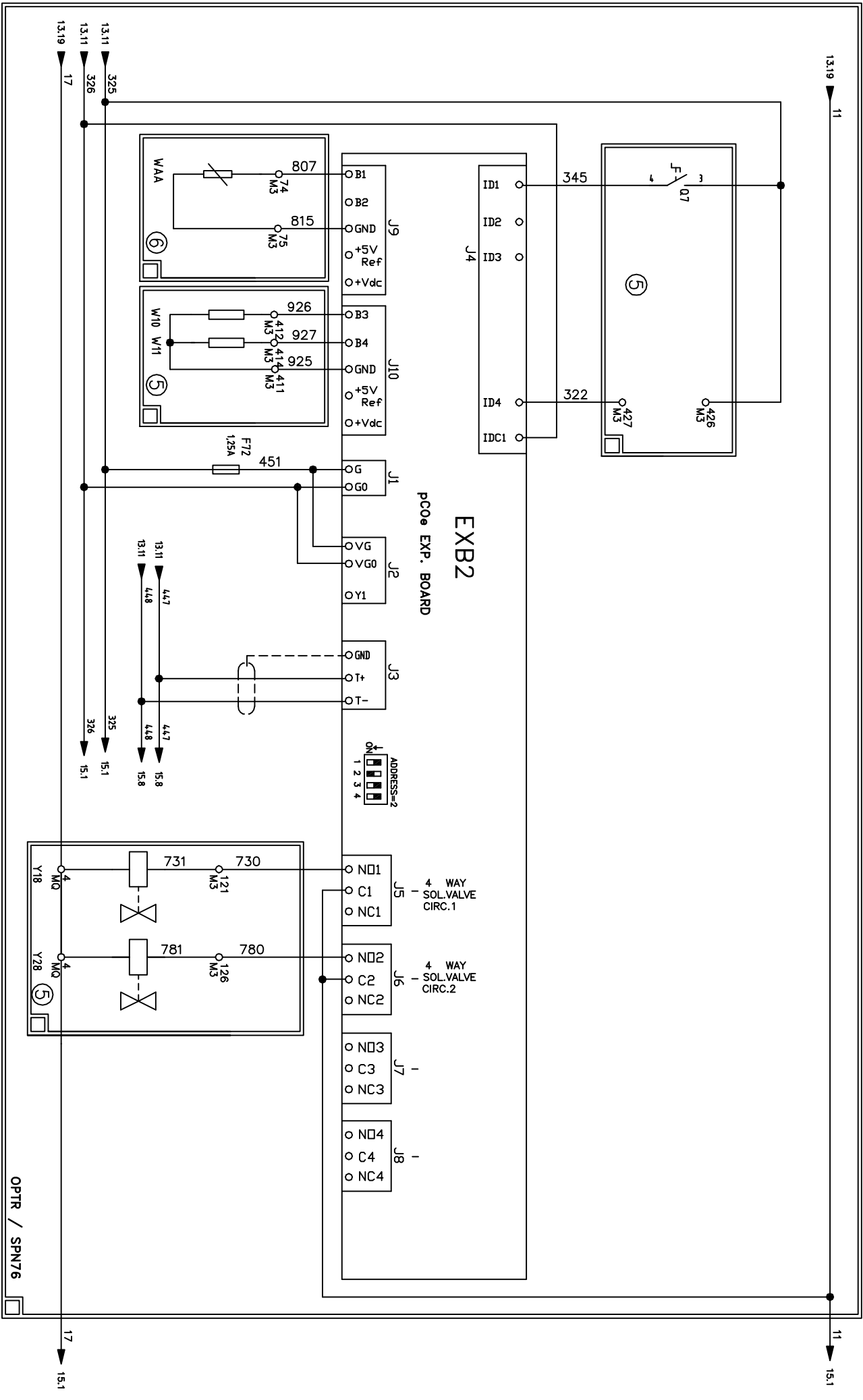


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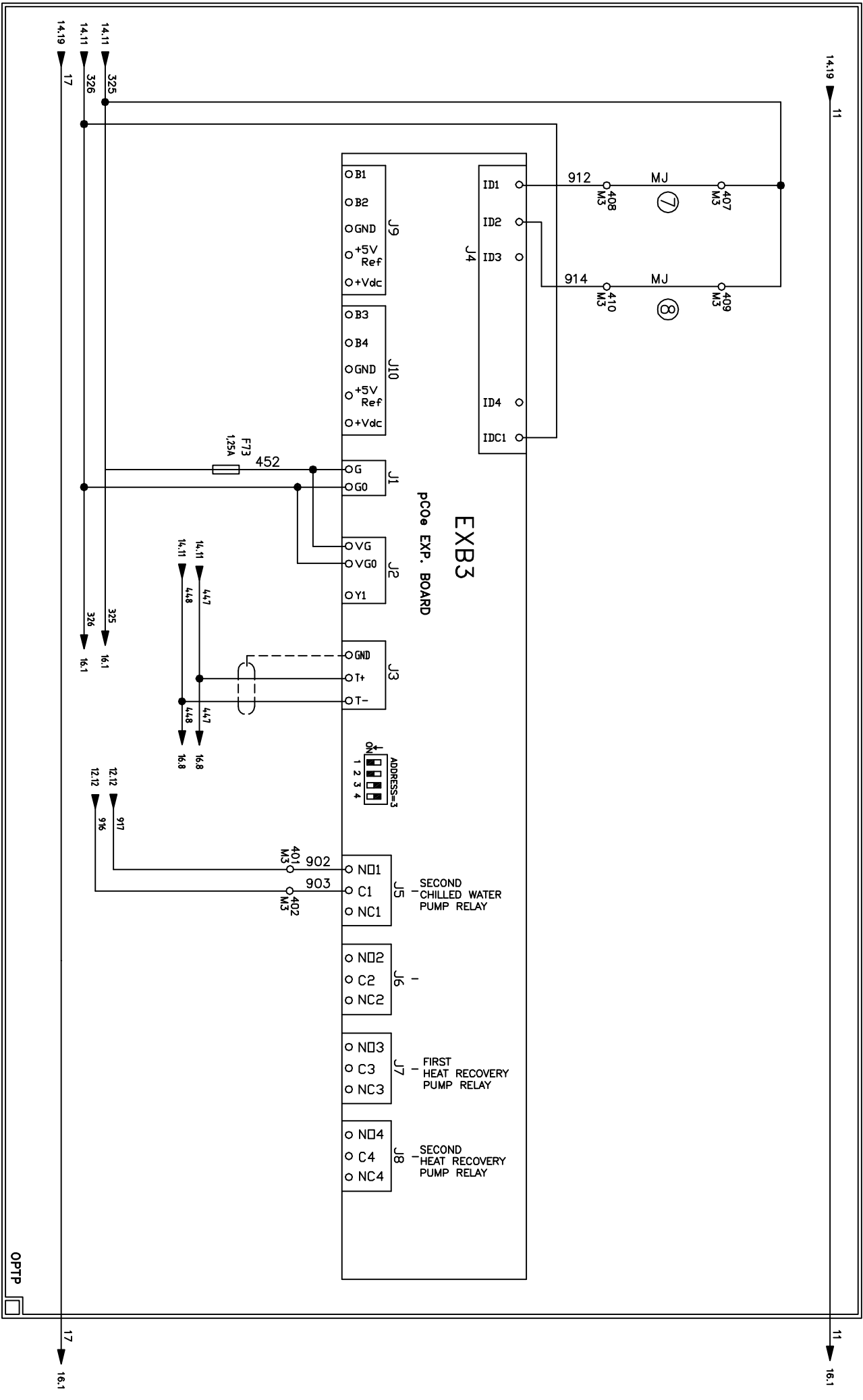


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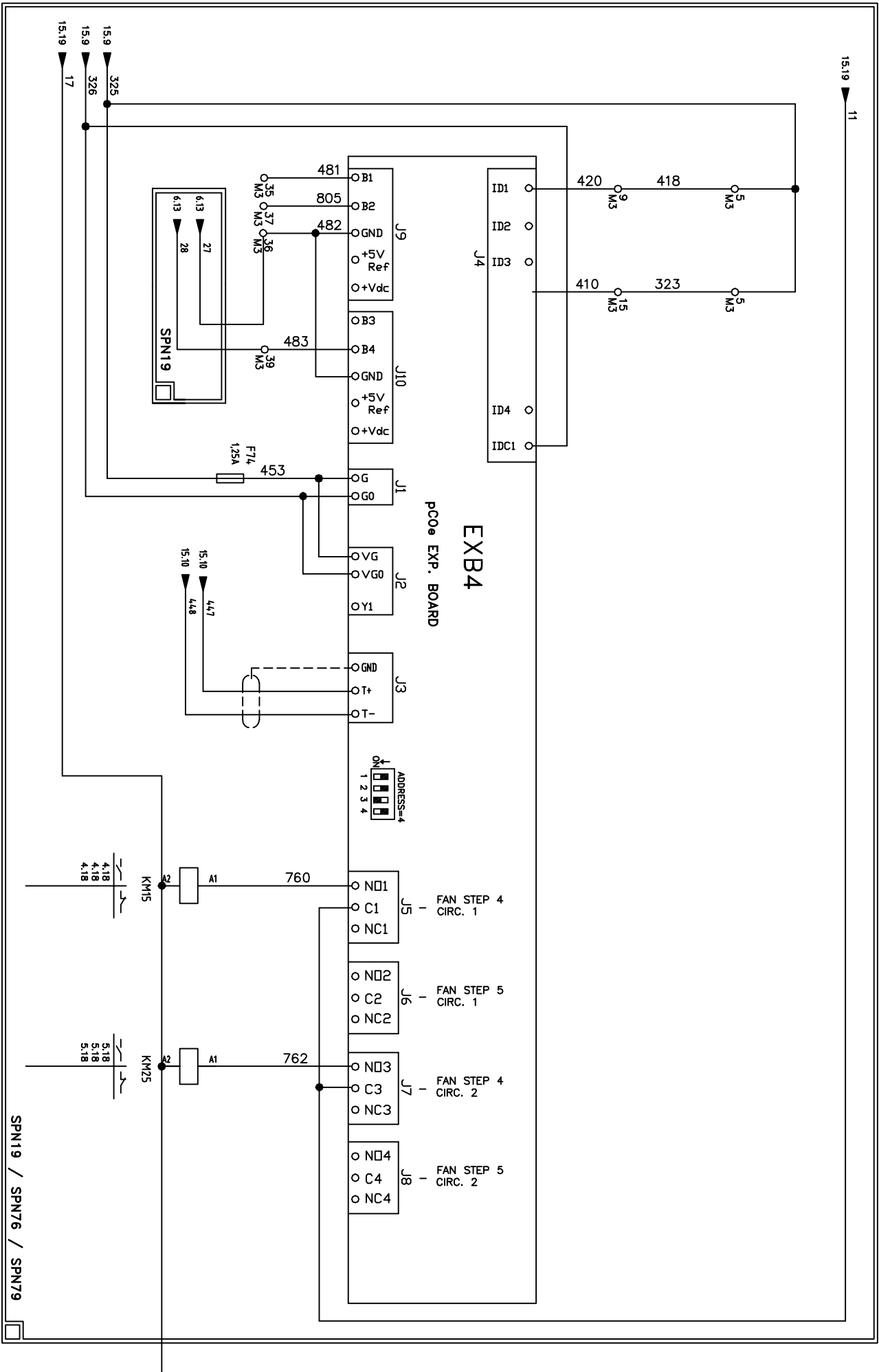




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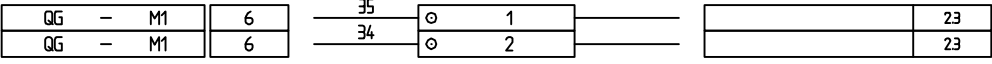


SPN19 / SPN76 / SPN79

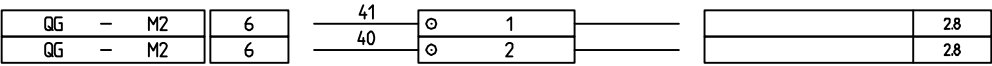
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1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

COMPRESSOR 1 TERMINAL



COMPRESSOR 2 TERMINAL



ITEM	DESCRIPTION	SHEET	Quantity
C1	POWER FACTOR CORRECTION	3	1
C2	POWER FACTOR CORRECTION	3	1
CP1	ANALOG-DIGITAL INPUTS BOARD	7	1
CP2	ECONOMIZER KIT AND ADDITIONAL HARDWARE EXP. BOARD 1	13	1
DRV1	SPEEDTRIL	4	1
DRV2	SPEEDTRIL	5	1
ESV1	ECONOMIZER SOLENOID VALVE COMP.1	13	1
ESV2	ECONOMIZER SOLENOID VALVE COMP.2	13	1
EXB2	HEAT RECOVERY CONTROL EXPANSION BOARD 2	14	1
EXB3	WATER PUMP CONTROL EXPANSION BOARD 3	15	1
EXB4	FAN STEP CONTROL EXPANSION BOARD 4	16	1
F1	COMPRESSOR FUSES	2	1
F2	COMPRESSOR FUSES	2	1
F9	PUMP FUSES	3	1
F10	FUSES	2	1
F12	PRESSURE SWITCH	13	1
F13	HIGH PRESSURE SWITCH	8	1
F20	FUSES	2	1
F22	PRESSURE SWITCH	13	1
F23	HIGH PRESSURE SWITCH	10	1
F51	THERMAL RELAY	2	1
F52	THERMAL RELAY	2	1
F58	PUMP HEATER FUSE	12	1
F59	EVAPORATOR HEATER FUSE	6	1
F60	PROTECTION AUX. CIRCUIT FUSE	6	1
F63	PROTECTION AUXILIARY CIRCUIT	13	1
F70	PUMP MAGNETOTHERMAL	3	1
F72	PROTECTION AUXILIARY CIRCUIT	14	1
F73	PROTECTION AUXILIARY CIRCUIT	15	1
F74	PROTECTION AUXILIARY CIRCUIT	16	1
F80	PUMP MAGNETOTHERMAL	3	1
F90	TERMOSTAT	12	1
F9A	PUMP FUSES	3	1
F100	FAN FUSES	4	1
F112	PHASE VOLT MONITOR	6	1
F120	TRANSFORMER 1 PROTECTION	6	1
F130	PHASE VOLT MONITOR FUSE	6	1
F200	FAN FUSES	5	1
F12A	PHASE VOLT MONITOR	6	1
F130A	PHASE VOLT MONITOR FUSE	6	1
FC1	POWER FACTOR CORRECTION FUSES 1	3	1
FC2	POWER FACTOR CORRECTION FUSES 1	3	1
K1	AUXILIARY RELAY	8	1
K3	AUXILIARY RELAY	10	1
K16	AUXILIARY RELAY	9	1

ITEM	DESCRIPTION	SHEET	Quantity
K26	AUXILIARY RELAY	11	1
KM2	COMPRESSOR CONTACTORS	8	1
KM4	COMPRESSOR CONTACTORS	10	1
KM10	POWER FACTOR CORRECTION CONTACTORS	8	1
KM11	FAN MOTOR CONTACTOR	9	1
KM12	FAN MOTOR CONTACTOR	9	1
KM13	FAN MOTOR CONTACTOR	9	1
KM14	FAN MOTOR CONTACTOR	9	1
KM15	FAN MOTOR CONTACTOR	16	1
KM20	POWER FACTOR CORRECTION CONTACTORS	10	1
KM21	FAN MOTOR CONTACTOR	11	1
KM22	FAN MOTOR CONTACTOR	11	1
KM23	FAN MOTOR CONTACTOR	11	1
KM24	FAN MOTOR CONTACTOR	11	1
KM25	FAN MOTOR CONTACTOR	16	1
KM51	PRIMARY PUMP CONTACTOR	12	1
KM55	COMPRESSOR CONTACTORS	8	1
KM61	SECONDARY PUMP CONTACTOR	12	1
KM65	COMPRESSOR CONTACTORS	10	1
KT1	TIME DELAY RELAY	8	1
KT2	TIME DELAY RELAY	10	1
M1	COMPRESSOR 1	2	1
M2	COMPRESSOR 2	2	1
M10	FORCED VENTILATION	12	1
M11	FAN MOTOR	4	1
M12	FAN MOTOR	4	1
M13	FAN MOTOR	4	1
M14	FAN MOTOR	4	1
M15	FAN MOTOR	4	1
M21	FAN MOTOR	5	1
M22	FAN MOTOR	5	1
M23	FAN MOTOR	5	1
M24	FAN MOTOR	5	1
M25	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	7	1
Q1	ON-OFF COMPRESSOR SWITCH	7	1
Q2	ON-OFF COMPRESSOR SWITCH	7	1
Q7	ON-OFF SWITCH	14	1
Q10	MAIN SWITCH	2	1

ITEM	DESCRIPTION	SHEET	Qty
Q12	AUTOMATIC CIRCUIT BREAKER	6	1
Q15	FAN CIRCUIT BREAKER	4	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
Q19	FAN CIRCUIT BREAKER	4	1
Q25	FAN CIRCUIT BREAKER	5	1
Q25	FAN CIRCUIT BREAKER	5	1
Q26	FAN CIRCUIT BREAKER	5	1
Q27	FAN CIRCUIT BREAKER	5	1
Q28	FAN CIRCUIT BREAKER	5	1
Q29	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	12	1
SC	CURRENT LIMIT	6	1
ST1	SUCTION TEMP. SENSOR CIRC. 1	13	1
ST2	SUCTION TEMP. SENSOR CIRC. 2	13	1
T1	400/115v TRANSFORMER	6	1
T2	230v/24v TRANSFORMER	6	1
T44	AMMETER TRANSFORMER	6	1
Tc	TERMOSTAT	6	1
TC3	TERMOSTAT	12	1
W1	COMPRESSOR THERMISTOR CIRC. 1	2	1
W2	COMPRESSOR THERMISTOR CIRC. 2	2	1
W10	ENTERING HR WATER SENSOR	14	1
W11	LEAVING HR WATER SENSOR	14	1
WAA	AIR AMBIENT	14	1
WD1	DISCHARGE SENSOR CIR. 1	7	1
WD2	DISCHARGE SENSOR CIR. 2	7	1
WH1	HIGH PRESSURE TRANSDUCER CIR.1	7	1
WH2	HIGH PRESSURE TRANSDUCER CIR.2	7	1
WIE	ENTERING EVAPORATOR WATER SENSOR	7	1
WL1	LOW PRESSURE TRANSDUCER CIR.1	7	1
WL2	LOW PRESSURE TRANSDUCER CIR.2	7	1
W01	OIL PRESSURE TRANSDUCER CIR.1	7	1
W02	OIL PRESSURE TRANSDUCER CIR.2	7	1
W0E	LEAVING EVAPORATOR WATER SENSOR	7	1
Y1	LIQUID LINE SOLENOID VALVE CIRC. 1	8	1
Y2	LIQUID LINE SOLENOID VALVE CIRC. 2	10	1
Y5	LIQUID INJECTION SOLENOID VALVE CIRC. 1	8	1

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DESCRIPTION:

LEGEND

REFEREMENT:

MASTER

N°: 180320

REVISIONE / REVISIONS: 7

SHEETS: 25 | PAG.: 23

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

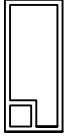
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Y6	LIQUID INJECTIONSOLENOID VALVE CIRC. 2	10	1
Y12	LOADER SOLENOID VALVE CIRC. 1	8	1
Y13	UNLOADER SOLENOID VALVE CIRC. 1	8	1
Y18	4 WAY VALVE COMP.1	14	1
Y22	LOADER SOLENOID VALVE CIRC. 2	10	1
Y23	UNLOADER SOLENOID VALVE CIRC. 2	10	1
Y28	4 WAY VALVE COMP.2	14	1

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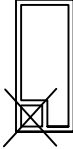
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Standard compressor			
FUSES + OVERCURRENT	3118	3120	3121
F1	100 A	100 A	125 A
F2	100 A	100 A	125 A
FS1	49 A	49 A	65 A
FS2	49 A	49 A	65 A

Standard fan			
	FANS-TEC 0700	FANS-TEC 0700	YE YDK1500 6/8 Bb
FUSES + OVERCURRENT	6P (HIGH SPEED)	8P (LOW SPEED)	8P (LOW SPEED)
F100	20 A	20 A	20 A
F200	20 A	20 A	20 A
015+22	2,7 A	1,6 A	3,8 A
025+32	2,7 A	1,6 A	3,8 A



OPTIONAL EQUIPMENT



EQUIPMENT INSTALLED

FIELD WIRING CONNECTIONS

REMOVE THIS EQUIPMENT WITH KIT SPEEDTROL



ELECTRICAL EQUIPMENT
INSTALLED ON COMPRESSOR
TERMINALS BOX

- (A) HIGH SPEED FAN CONNECTIONS
ST – HA VERSION
N – H VERSION
- (B) LOW SPEED FAN CONNECTIONS
XN VERSION
- (1) INSTALL WITH EXPANSION BOARD ONLY
- (2) INSTALL WITH SECONDARY PUMP ONLY
- (3) INSTALL WITH "LOW PRESSURE SWITCH" ONLY
- (4) INSTALL WITH "COMP. ALARM KIT" ONLY
- (5) INSTALL WITH "HEAT RECOVERY KIT"
- (6) INSTALL WITH "SPN76"
- (7) FIRST PUMP ALARM
- (8) SECONDARY PUMP ALARM
- (9) INSTALL WITH "SUCTION TEMP. SENSOR"
- (*) REMOVE THIS WIRE OR MU IF
THE OPTION IS REQUESTED
- (*) MANUAL RESET

LIST OF OPTIONS

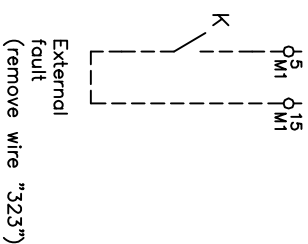
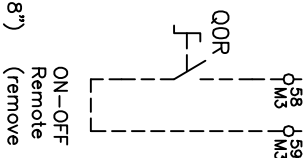
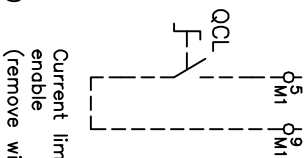
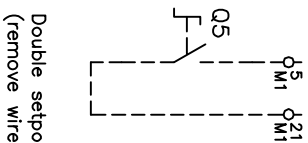
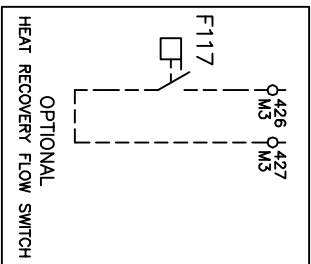
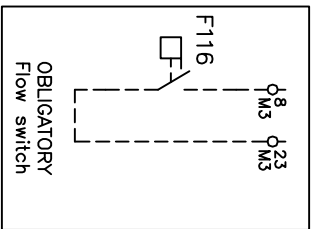
Standard pumps					
FUSES + OVERCURRENT	1,5 kW	2,2 kW	3 kW	4 kW	5,5 kW
F9	16 A	20 A	25 A	35 A	35 A
F9A	16 A	20 A	25 A	35 A	35 A
F70	3,5 A	5 A	6,5 A	8,5 A	11,5 A
F80	3,5 A	5 A	6,5 A	8,5 A	11,5 A

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 Ventilation
SPN96	Anticondensate Heater

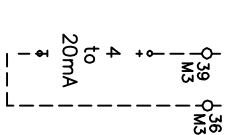
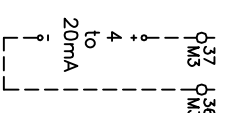
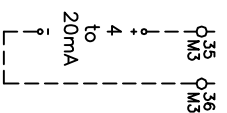
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Digital input terminals

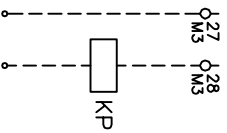


Analog input terminals



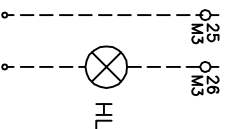
Digital output terminals

Pump contact
Maximum load:
2A-230VAC



External
power supply
(ex 24VAC or 230VAC)

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



External
power supply
(ex 24VAC or 230VAC)

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