

SHEET	DESCRIPTION
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3	KIT PUMPS AND KIT CAPACITOR
4	CIRCUIT FAN POWER SUPPLY 1
5	CIRCUIT FAN POWER SUPPLY 2
6	UNIT CONTROL CIRCUIT POWER SUPPLY
7	ANALOGIC-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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19	TERMINAL M4
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21	LEGEND
22	LEGEND
23	NOTE
24	FIELD WIRING CONNECTION

WIRING DIAGRAM

EWAD 400 ÷ 600 AJYNN

400 440 480 500 550 600

EWAD 400 ÷ 500 AJYNN/Q

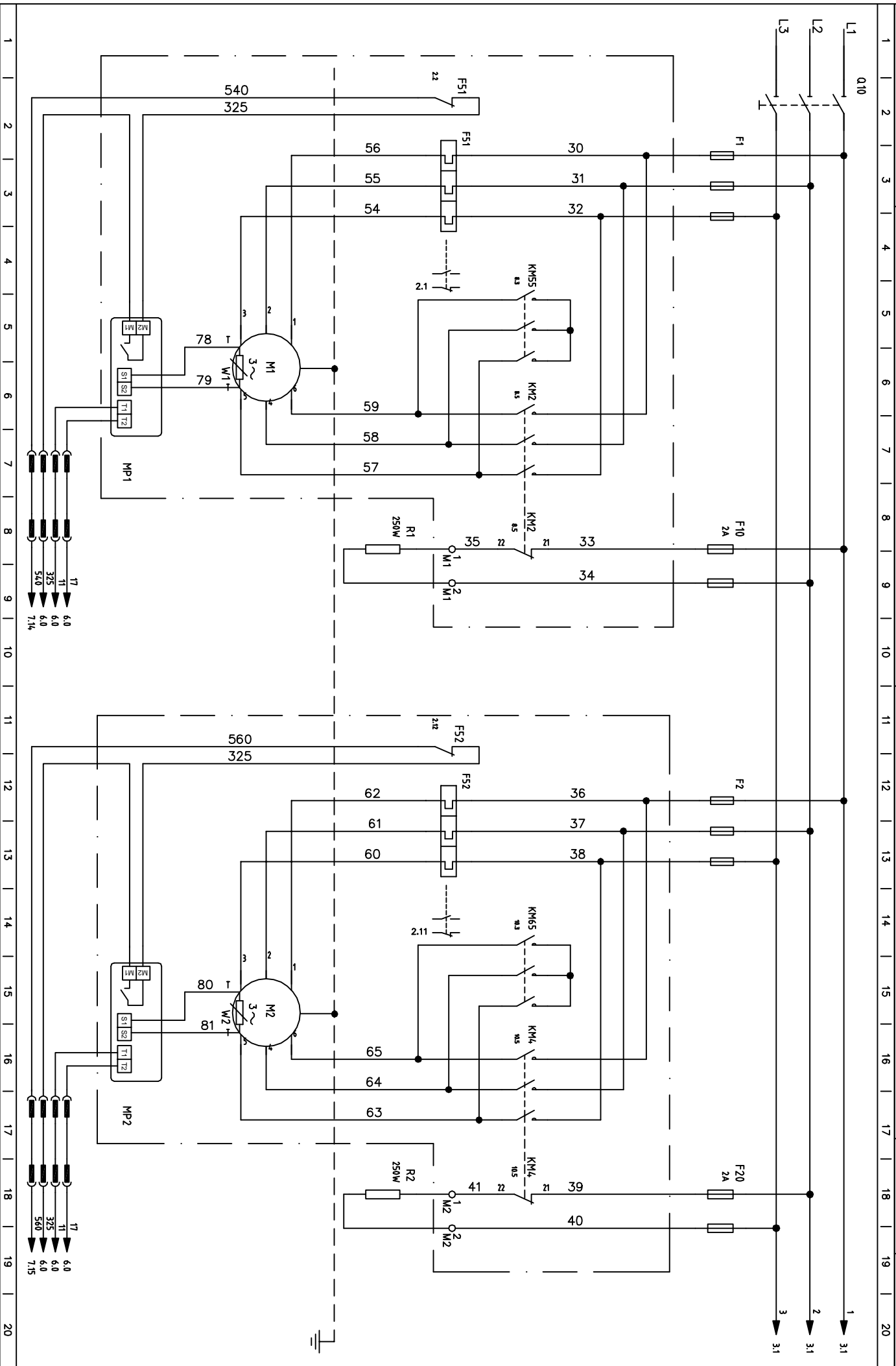
400 440 460 500

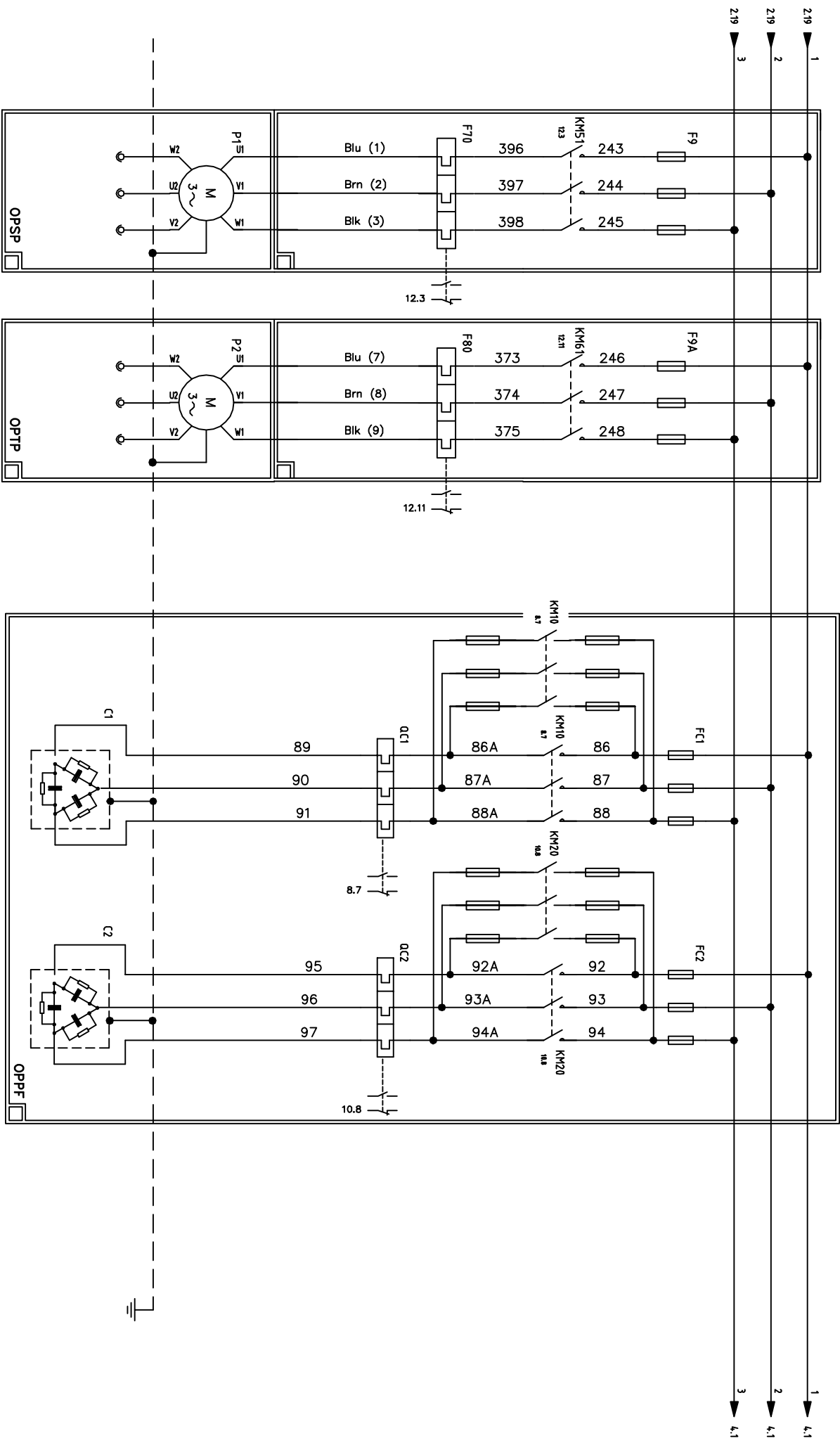
EWAD 500 ÷ 650 AJYNN/A

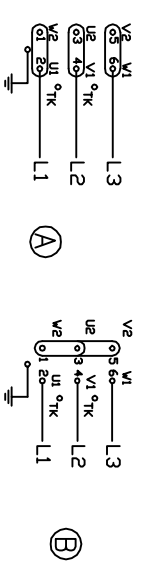
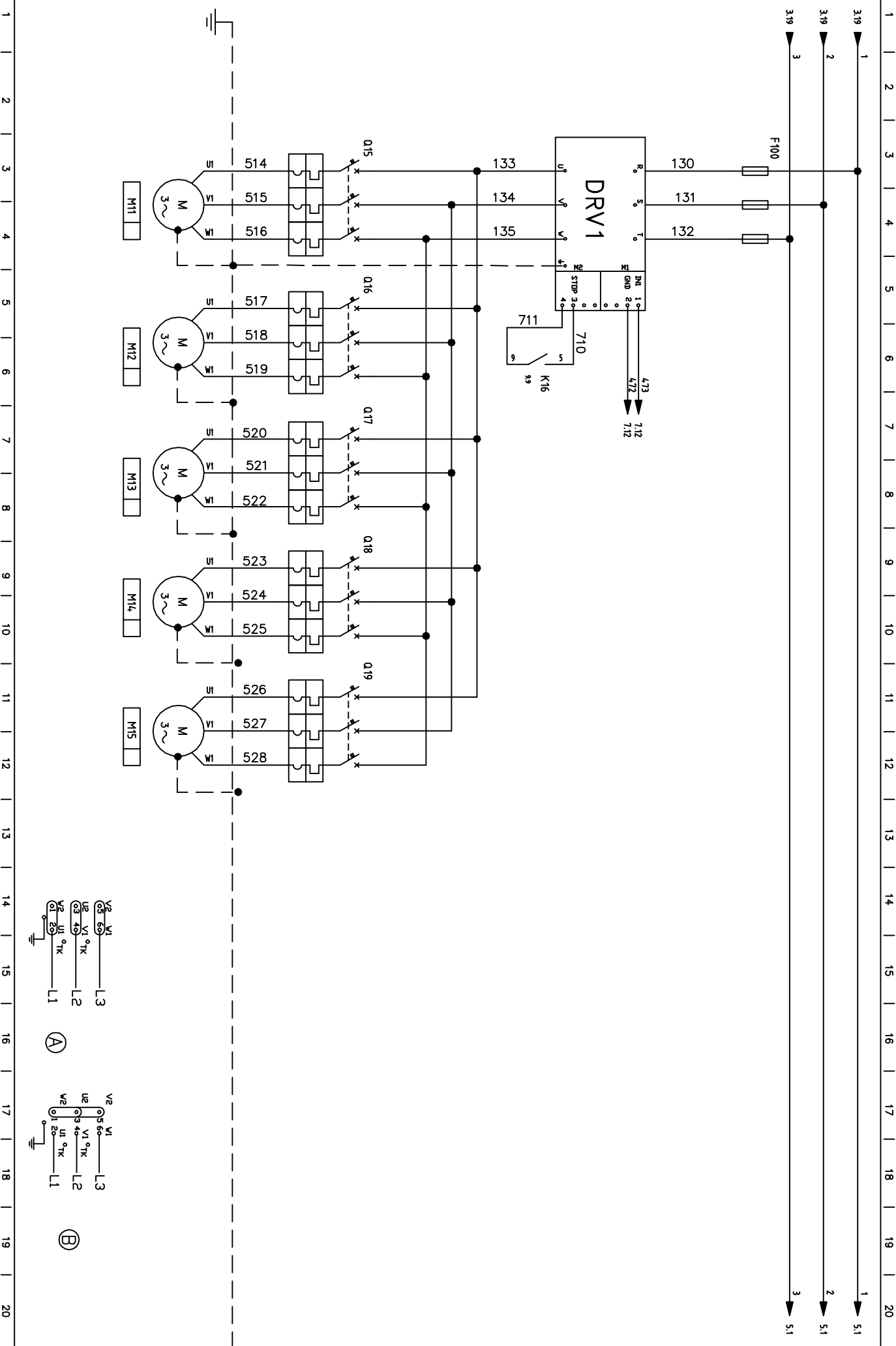
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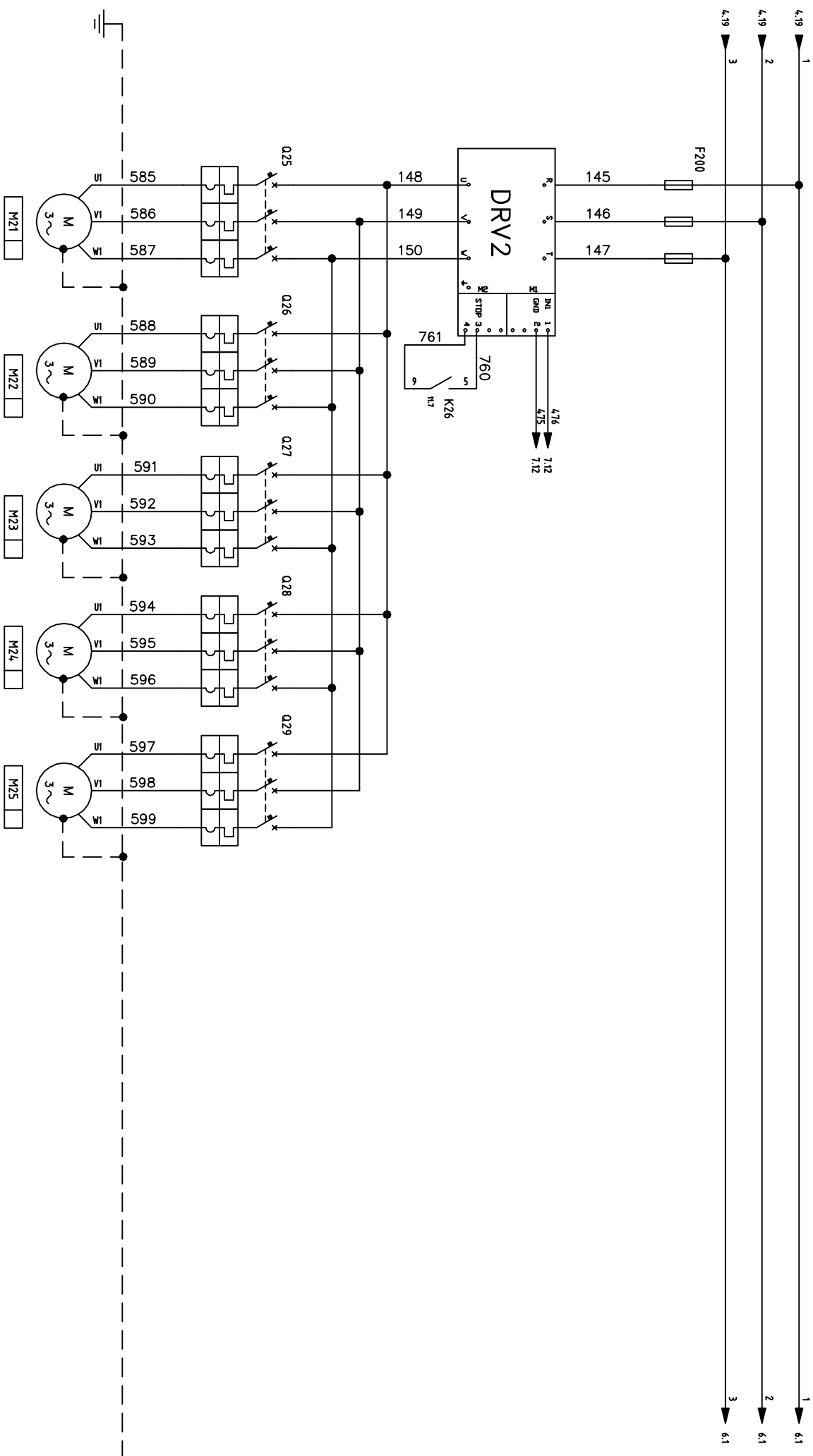
- FAN SPEED MODULATION VERSION WITH THERMOSTATIC EXPANSION VALVE -

DIAGRAM N.:		180325		File:	(180325/1803251)
DATE:	13/04/07	REV:	0	Code ID:	
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REV.	DATE	HISTORY REVISIONS	DWG. CHECK	PASSED	
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7	8	9	10	11	12
13	14	15	16	17	18
19	20				



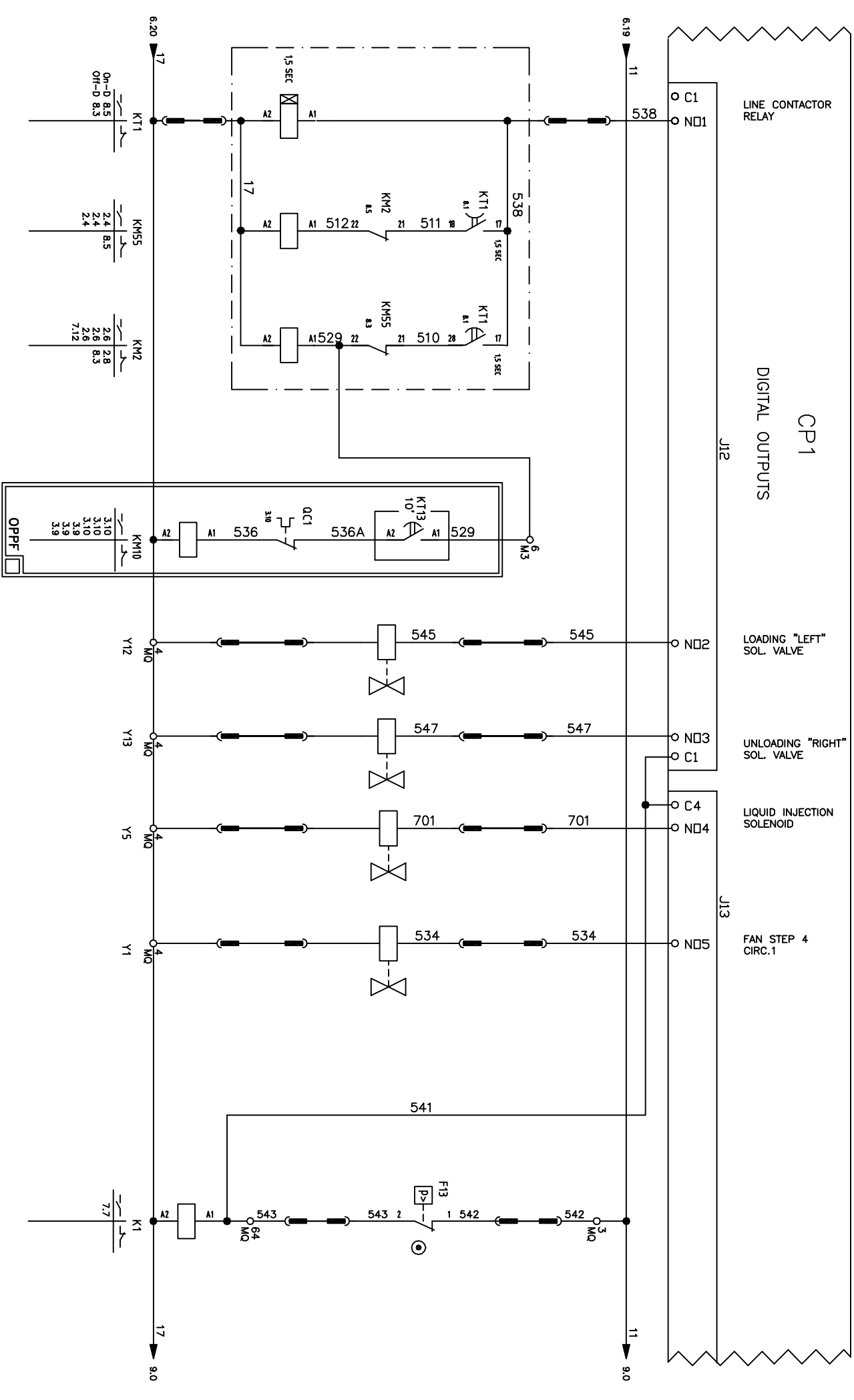






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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

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DESCRIPTION:

CONTROL CIRCUIT FAN 1

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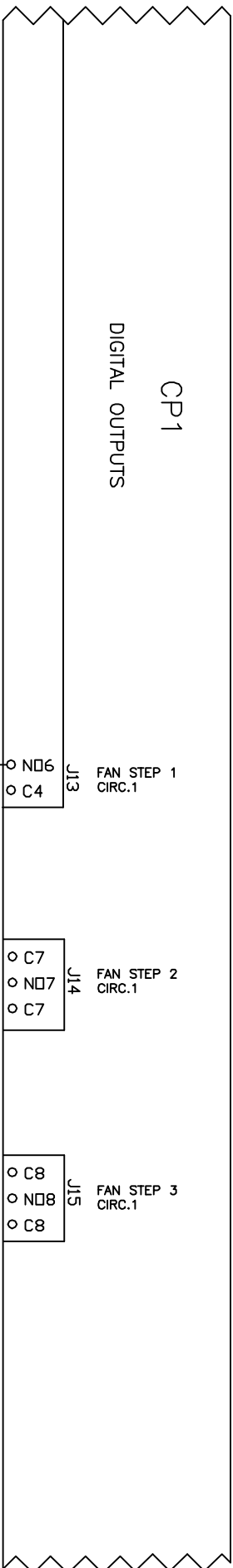
MASTER

N°: 180325

REVISIONE / REVISIONS: 0

SHEETS: 24 | PAG.: 9

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



8.19 11 11 100

8.19 17 17 100

700

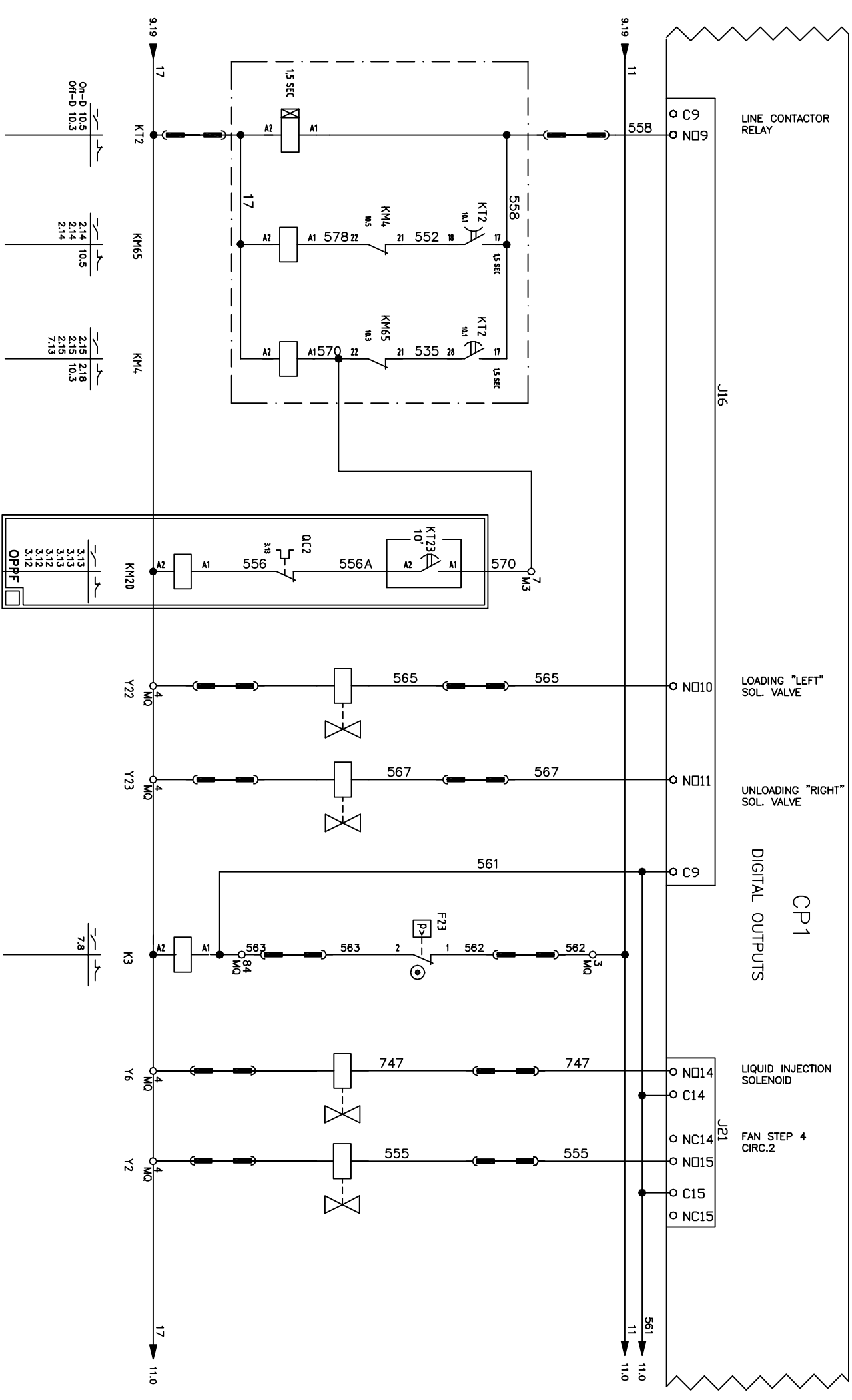
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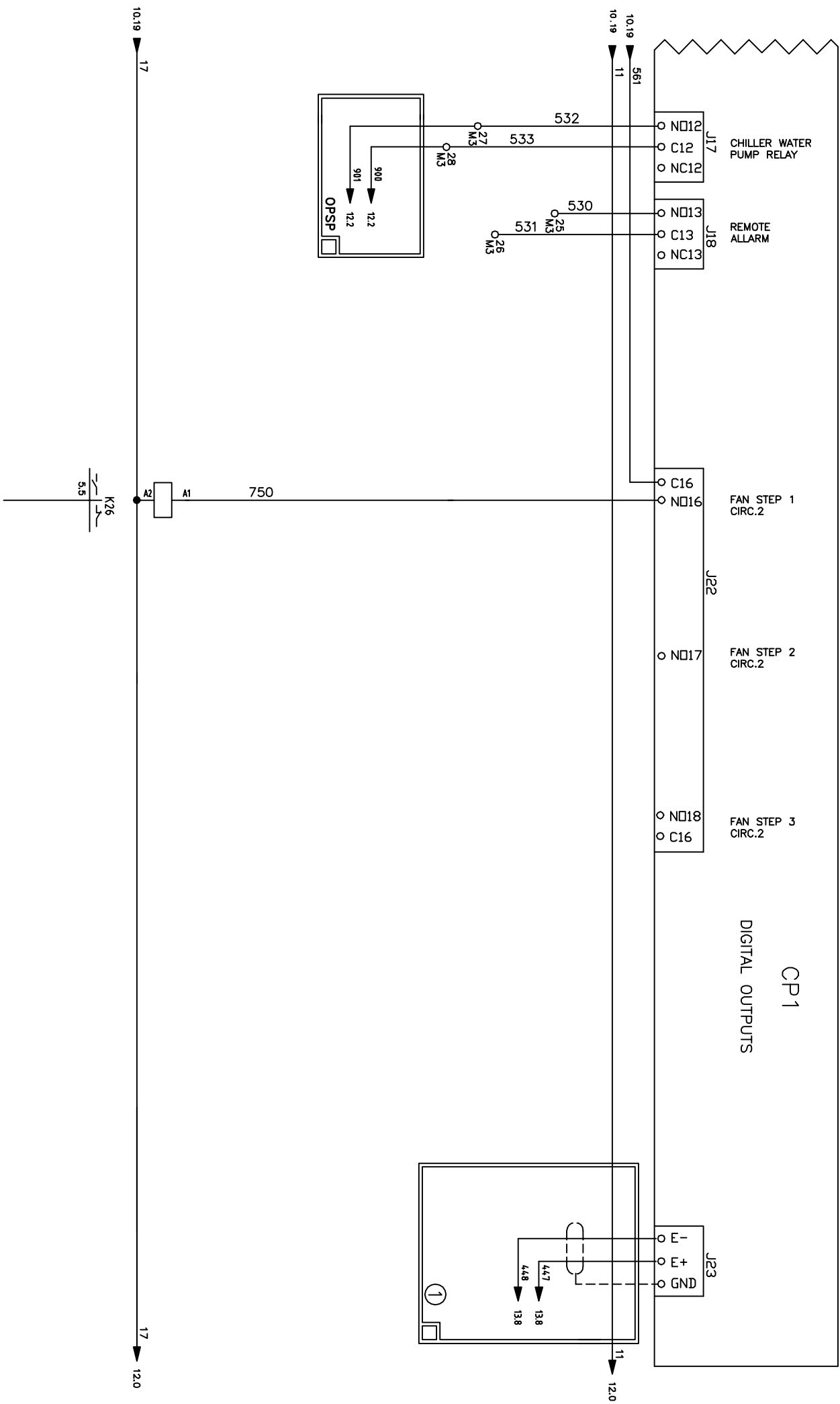
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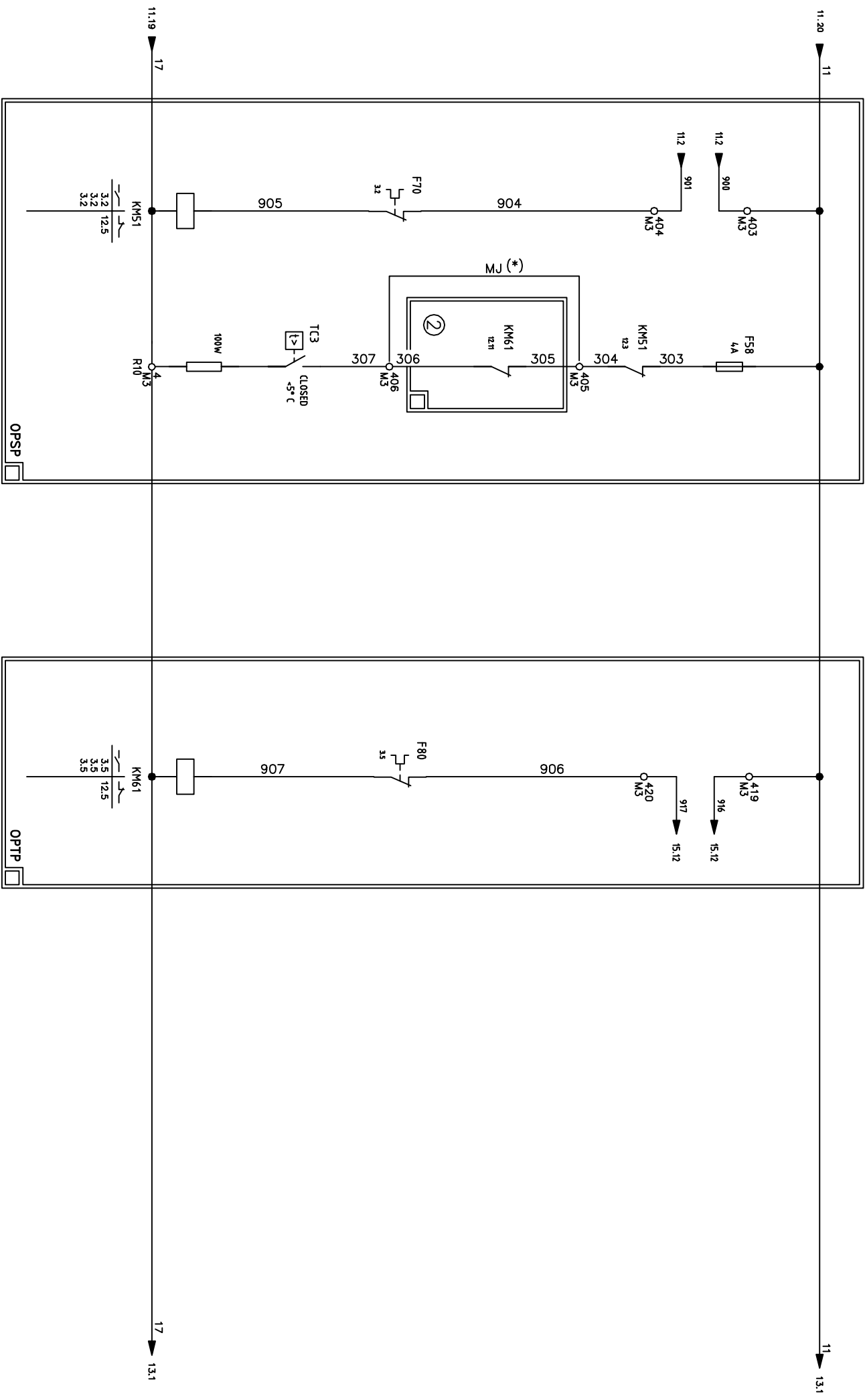
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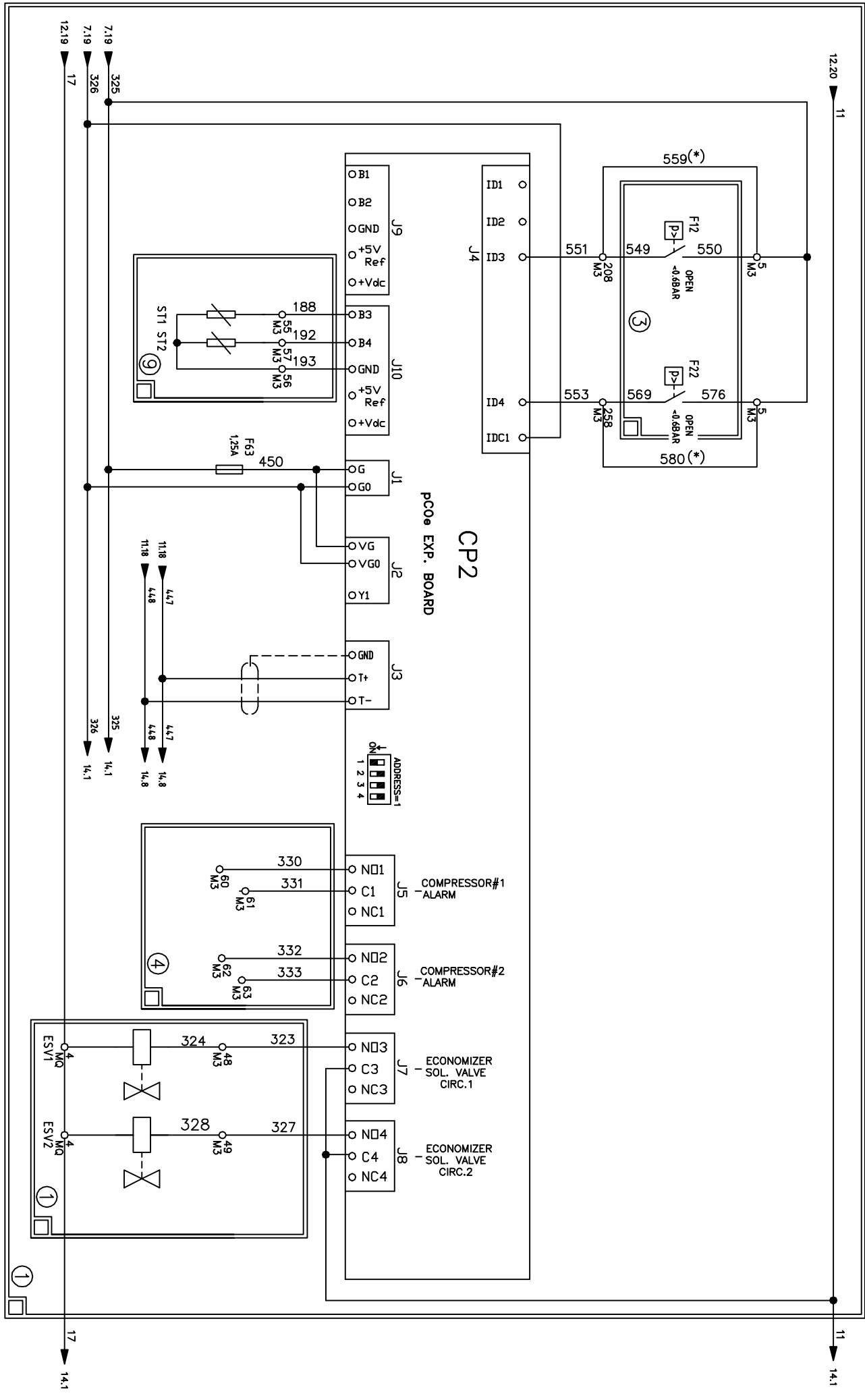
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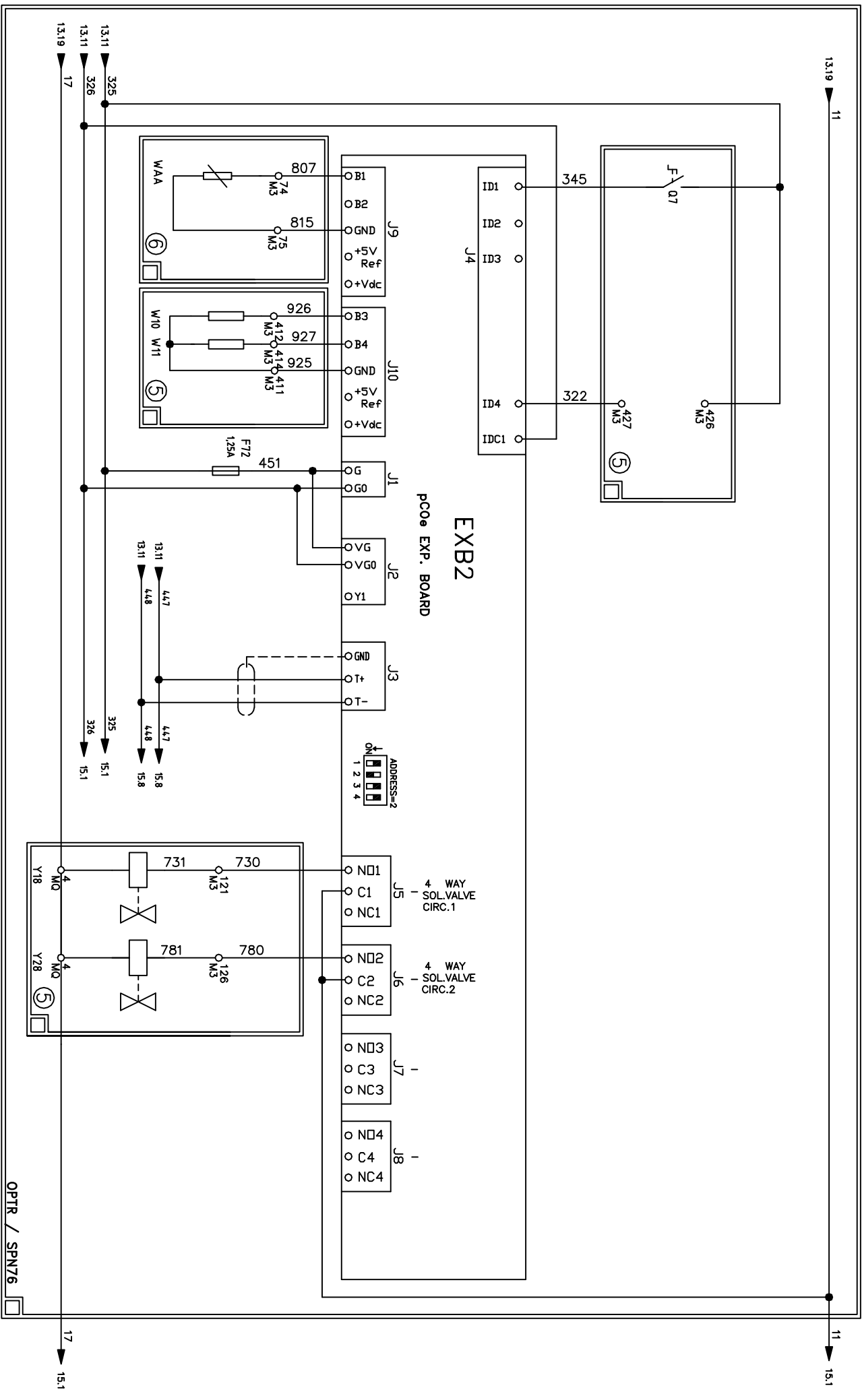






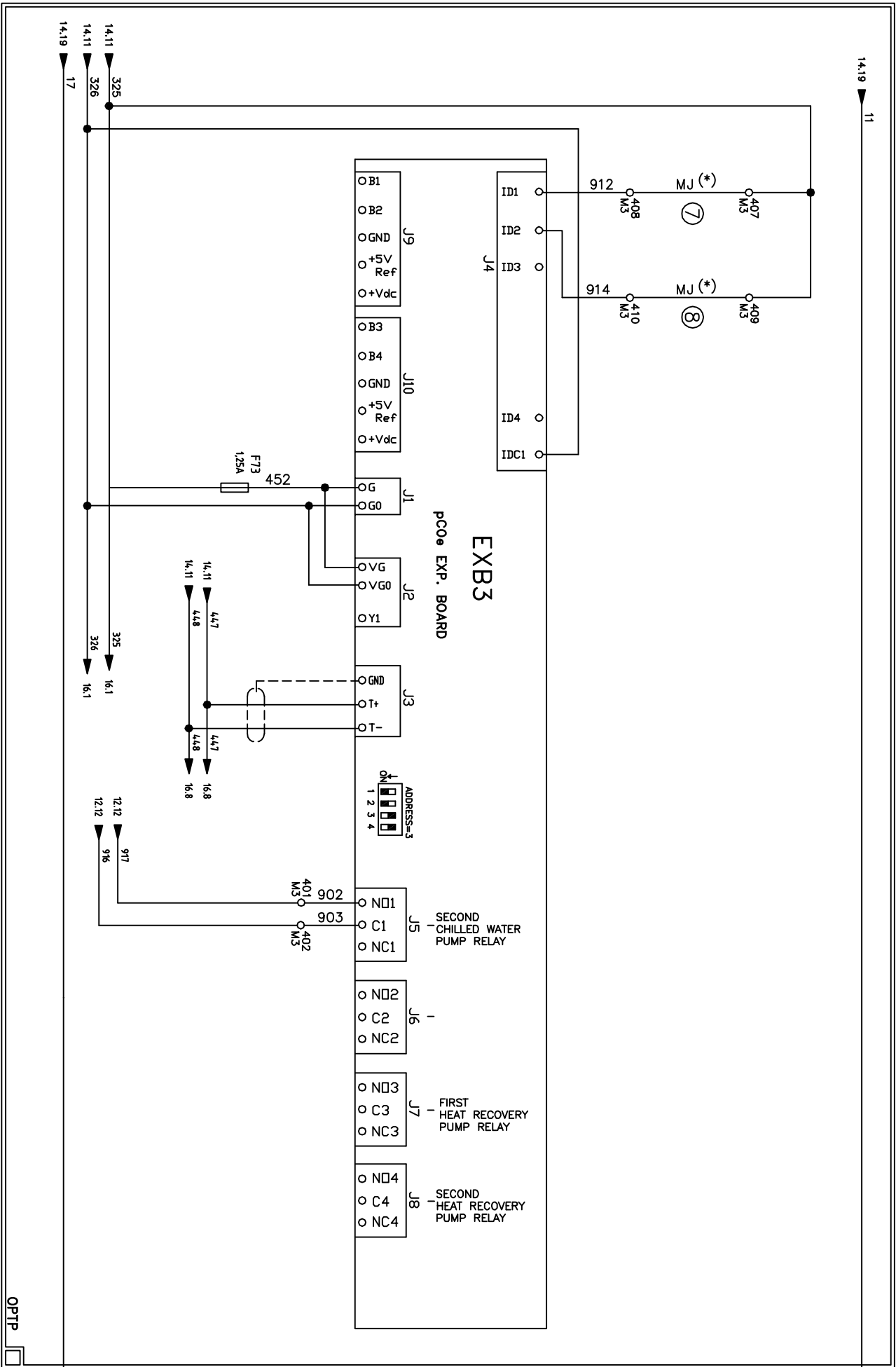
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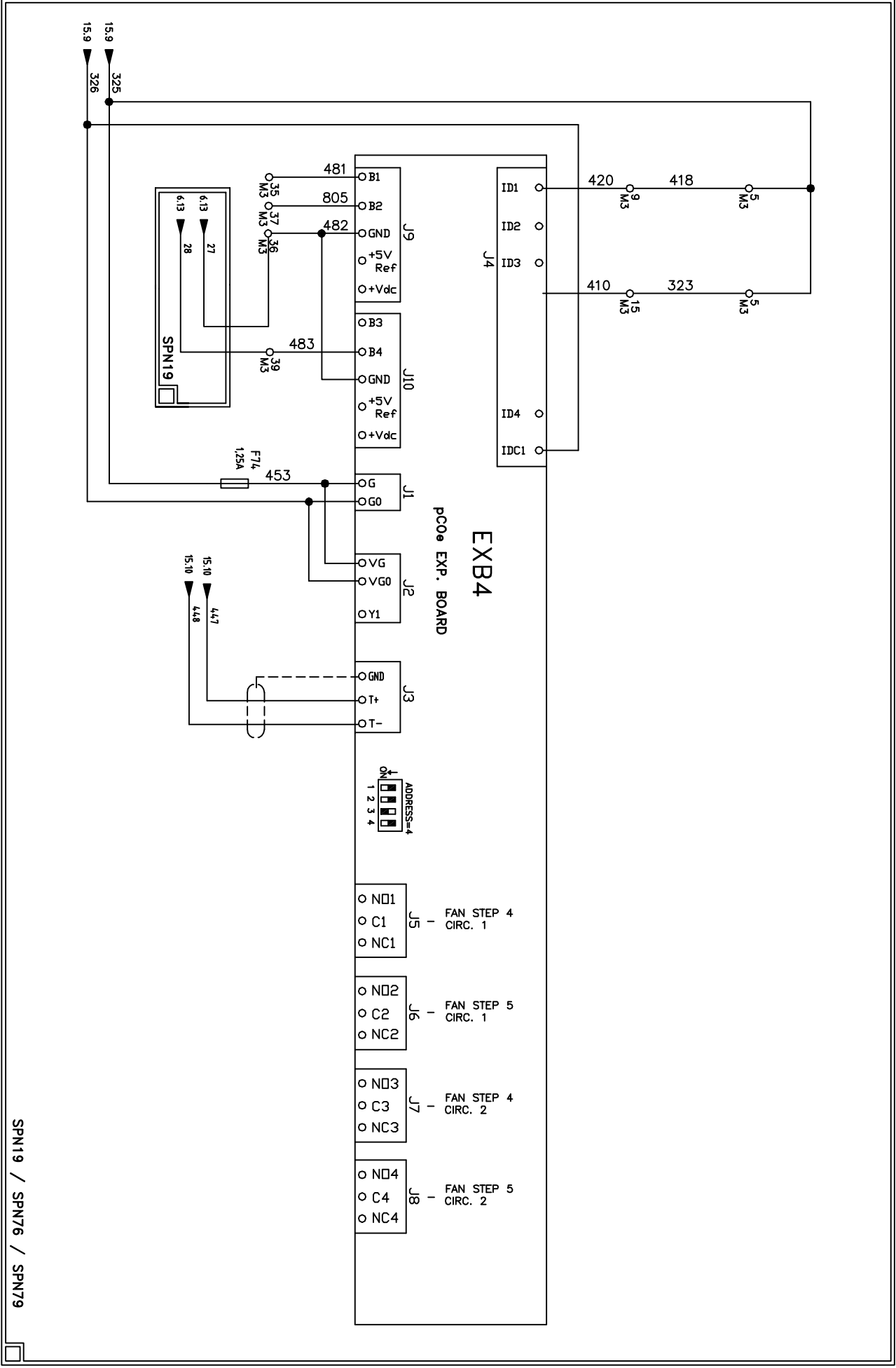


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OPTR / SPN76



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



SPN19 / SPN76 / SPN79

DAIKIN EUROPE NV

DESCRIPTION:

TERMINALS M1-M2

REFEREMENT:

MASTER

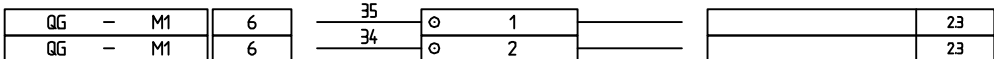
N°: 180325

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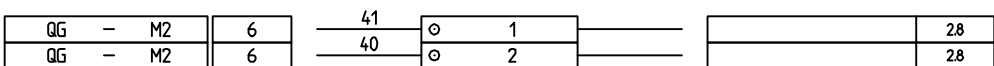
SHEETS: 24 | PAG.: 17

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COMPRESSOR 1 TERMINAL



COMPRESSOR 2 TERMINAL



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

ITEM	DESCRIPTION	SHEET	Q1a/Q1y
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	SPEEDTROL	4	1
DRV2	SPEEDTROL	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
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
F200	FAN FUSES	5	1
F112A	PHASE VOL.T MONITOR	6	1
F130A	PHASE VOL.T MONITOR FUSE	6	1
FC1	POWER FACTOR COMPRESSOR FUSES 1	3	1
FC2	POWER FACTOR COMPRESSOR FUSES 2	3	1
K1	AUXILIARY RELAY	8	1
K3	AUXILIARY RELAY	10	1
K6	AUXILIARY RELAY	9	1
K26	AUXILIARY RELAY	11	1

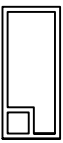
ITEM	DESCRIPTION	SHEET	Q1a/Q1y
KM2	COMPRESSOR CONTACTORS	8	1
KM4	COMPRESSOR CONTACTORS	10	1
KM10	POWER FACTOR CORRECTION CONTACTORS	8	1
KM20	POWER FACTOR CORRECTION CONTACTORS	10	1
KM51	PRIMARY PUMP CONTACTOR	12	1
KM55	COMPRESSOR CONTACTORS	8	1
KM61	SECONDARY PUMP CONTACTOR	12	1
KM65	COMPRESSOR CONTACTORS	10	1
KT1	TIME DELAY RELAY	8	1
KT2	TIME DELAY RELAY	10	1
M1	COMPRESSOR 1	2	1
M2	COMPRESSOR 2	2	1
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
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
Q19	FAN CIRCUIT BREAKER	4	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

ITEM	DESCRIPTION	SHEET	Q1a/Q1b
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 CIR.1	13	1
ST2	SUCTION TEMP. SENSOR CIR.2	13	1
T1	400/115v TRANSFORMER	6	1
T2	230v/24v TRANSFORMER	6	1
TA4	AMMETER TRANSFORMER	6	1
Tc	TERMOSTAT	6	1
TC3	TERMOSTAT	12	1
W1	COMPRESSOR THERMISTORS CIRC.1	2	1
W2	COMPRESSOR THERMISTORS 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 1	8	1
Y2	LIQUID LINE SOLENOID VALVE 2	10	1
Y5	LIQUID INJECTION SOLENOID VALVE CIRC. 1	8	1
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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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

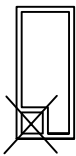
Standard fan			
FUSES + OVERCURRENT	FANS-TEC 0700 6P (HIGH SPEED)	FANS-TEC 0700 8P (LOW SPEED)	YE YDK1500 6/8 Bb 8P (LOW SPEED)
F100	20 A	20 A	20 A
F200	20 A	20 A	20 A
Q15+22	2,7 A	1,6 A	3,8 A
Q25+32	2,7 A	1,6 A	3,8 A



OPTIONAL EQUIPMENT

⑦

FIRST PUMP ALARM



EQUIPMENT INSTALLED

⑧

SECONDARY PUMP ALARM

⑨

INSTAL WITH "SUCTION TEMP. SENSOR"

FIELD WIRING CONNECTIONS

(*)

REMOVE THIS WIRE OR MU IF THE OPTION IS REQUESTED

LIST OF OPTIONS



ELECTRICAL EQUIPMENT
INSTALLED ON COMPRESSOR
TERMINALS BOX

⊙

MANUAL RESET

Ⓐ

HIGH SPEED FAN CONNECTIONS
ST - VERSION
N - VERSION

Ⓑ

LOW SPEED FAN CONNECTIONS
LN - XN - XXN VERSION
A - H - Q 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"

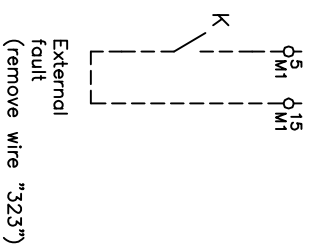
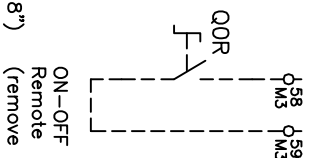
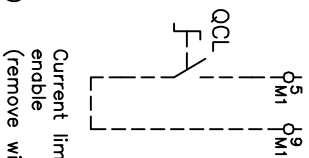
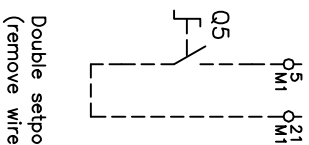
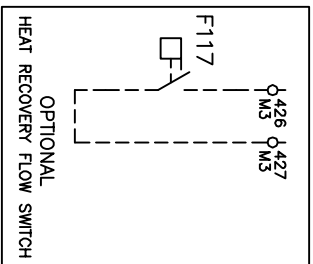
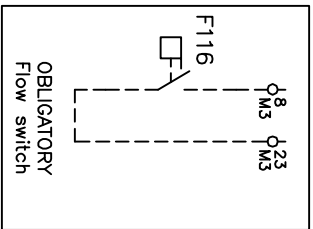
FUSES + OVERCURRENT	Standard pumps				
	1,5 kW	2,2 kW	3 kW	4 kW	5,5 kW
F9	16 A	20 A	25 A	35 A	35 A
F9A	16 A	20 A	25 A	35 A	35 A
F70	3,5 A	5 A	6,5 A	8,5 A	11,5 A
F80	3,5 A	5 A	6,5 A	8,5 A	11,5 A

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

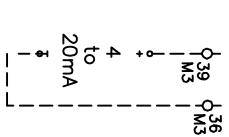
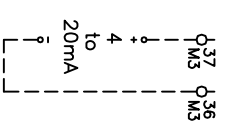
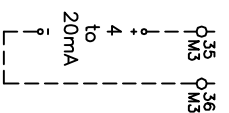
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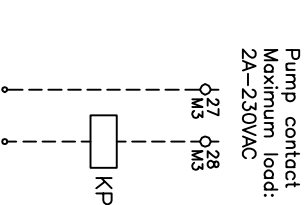
Digital input terminals



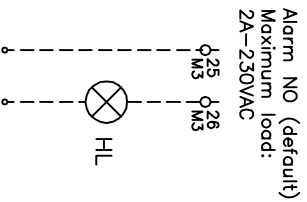
Analog input terminals



Digital output terminals



External
power supply
(ex 24VAC or 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