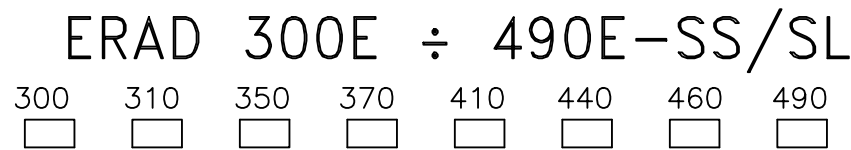
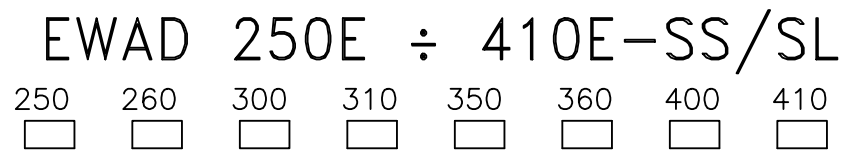


SHEET	DESCRIPTION
1	FRONT PAGE
2	POWER COMPRESSOR
3	CRANCASE HEATERS POWER SUPPLY
4	KIT PUMPS
5	CIRCUIT FAN POWER SUPPLY
6	UNIT CONTROL CIRCUIT POWER SUPPLY
7	ANALOG INPUTS-OUTPUT BOARD
8	DIGITAL INPUTS BOARD
9	DIGITAL OUTPUTS BOARD
10	EXPANSION INPUT / OUTPUT UNIT ALARM & LIMITING
11	HEAT RECOVERY CONTROL BOARD (OPTIONAL)
12	EXPANSION CONTROL COMPRESSOR
13	EXPANSION CONTROL COMPRESSOR
14	EEXV COMPRESSOR
15	PUMPS CONTROL
16	COMMUNICATION MODULES (OPTIONAL)
17	MORSETTIERA M01 - M1
18	MORSETTIERA M400 - M115 - M24
19	MORSETTIERA MC115 - MC24
20	LEGENDA
21	LEGENDA
22	LEGENDA
23	NOTE
24	FIELD WIRING CONNECTION

WIRING DIAGRAM



- VERSIONE SOFT-STARTER E REGOLAZIONE CONTINUA VENTILATORI -
 - SOFT-STARTER VERSION AND FAN SPEED MODULATION -

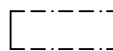
- MicroTech® III -



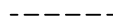
OPTIONAL EQUIPMENTS



EQUIPMENT INSTALLED



ELECTRICAL EQUIPMENT
INSTALLED ON COMPRESSOR
TERMINALS BOX



FIELD WIRING CONNECTIONS



REMOVE THIS WIRE OR MJ IF THE OPTION IS REQUESTED



MANUAL RESET

REV.	DATE	HISTORY REVISIONS	DWG.	CHECK.	PASSED.
1	11-09-2013	Added Compressor Circuit Breaker (OP95) to pag.2	MP.	MP.	

DIAGRAM N.:

180448

File: (180448/1804481)

Code ID:

DATE: 06/03/2012

REV: 1

DWG.

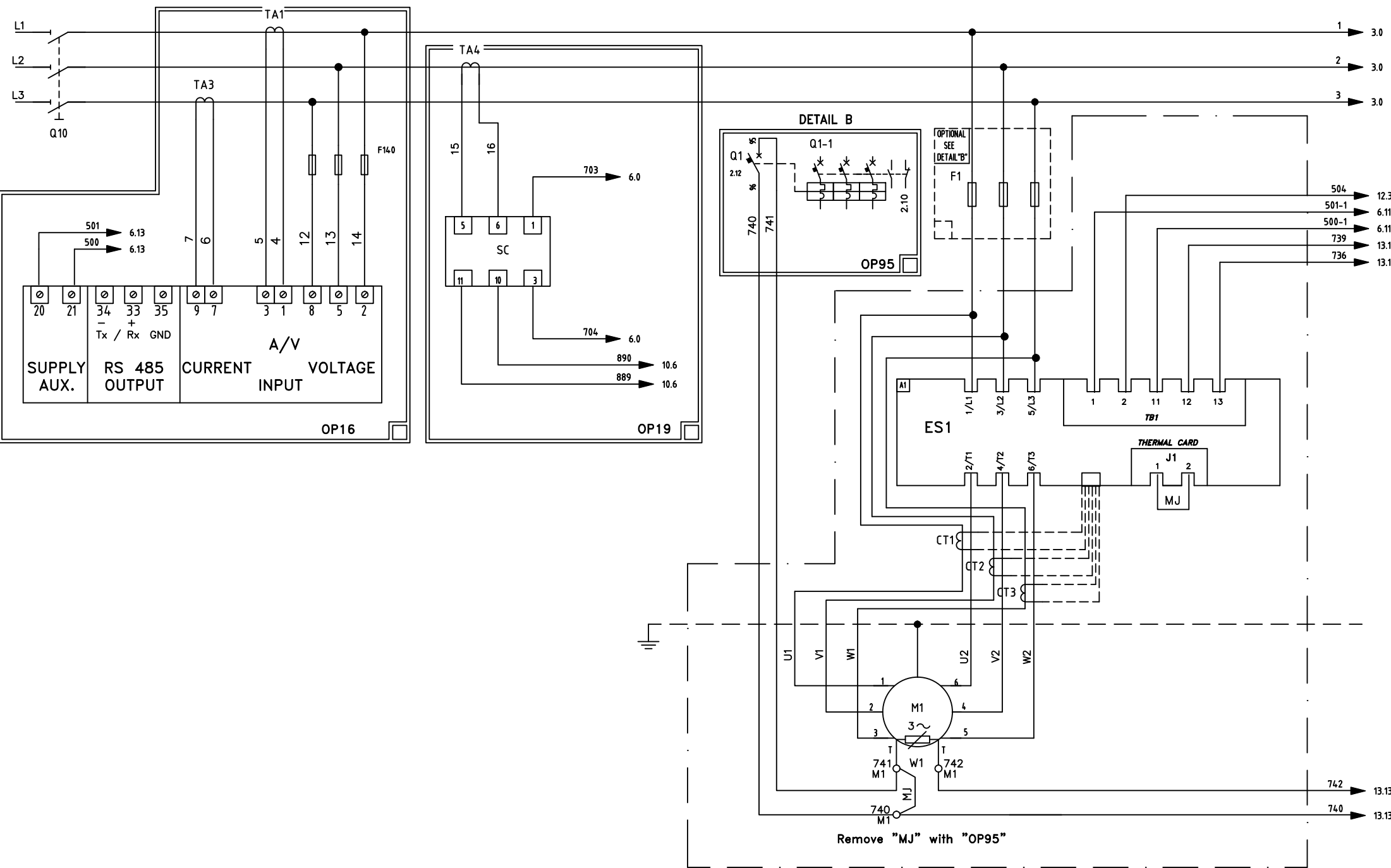
DAIKIN EUROPE NV

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CHECK.

PASSED.

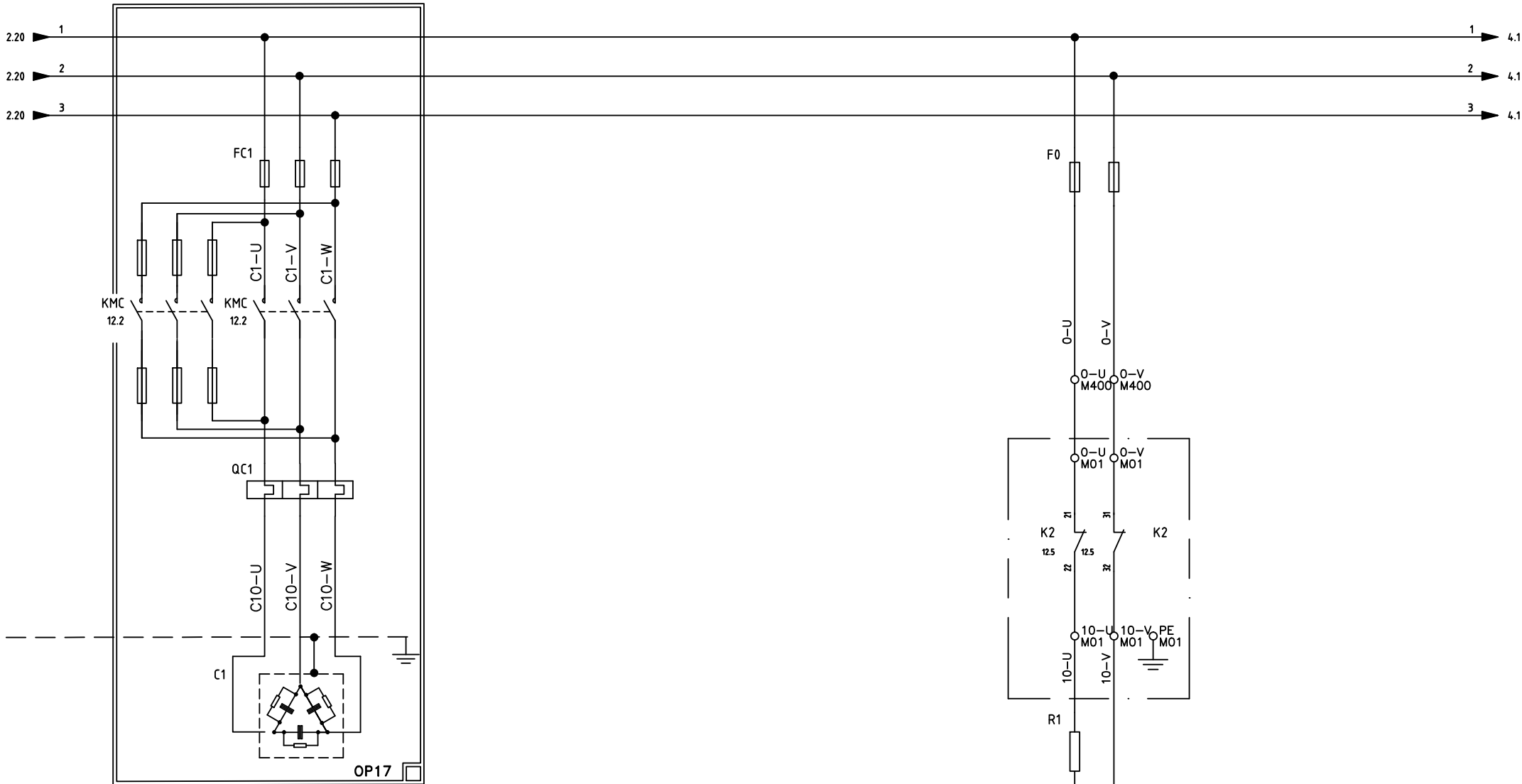
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Remove "MJ" with "OP95"

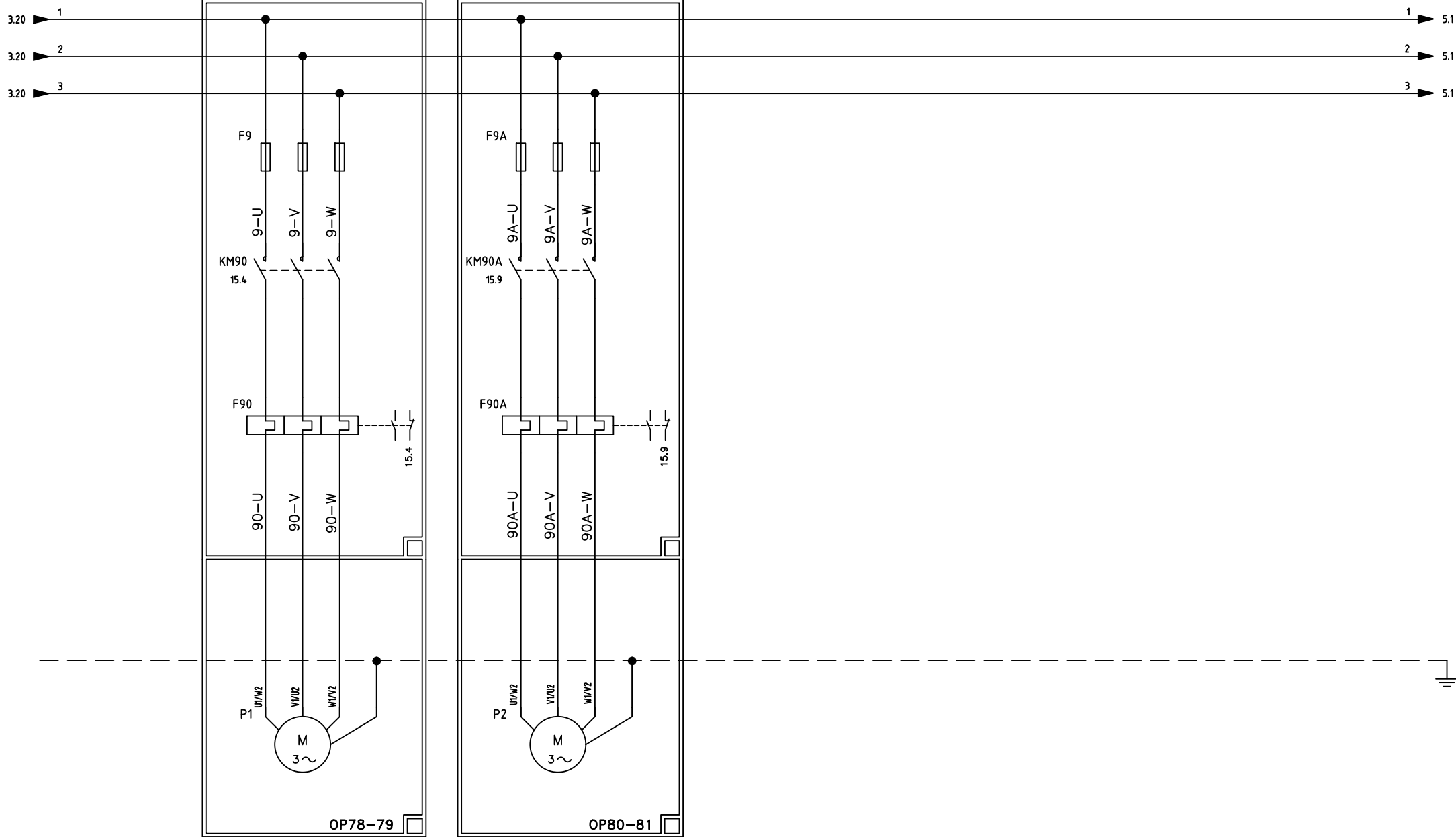
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1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20



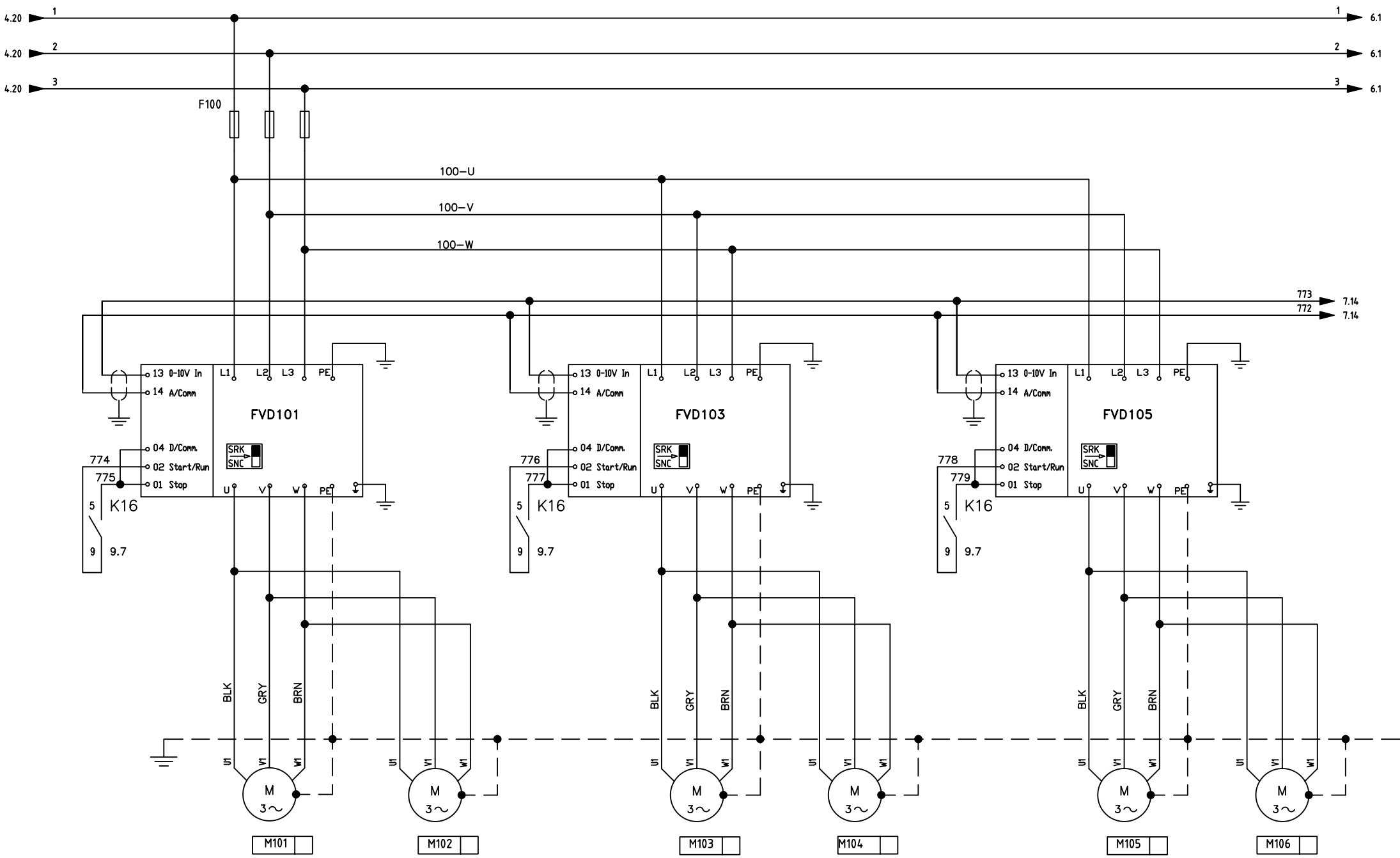
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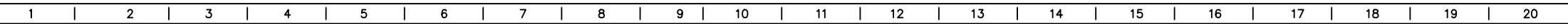
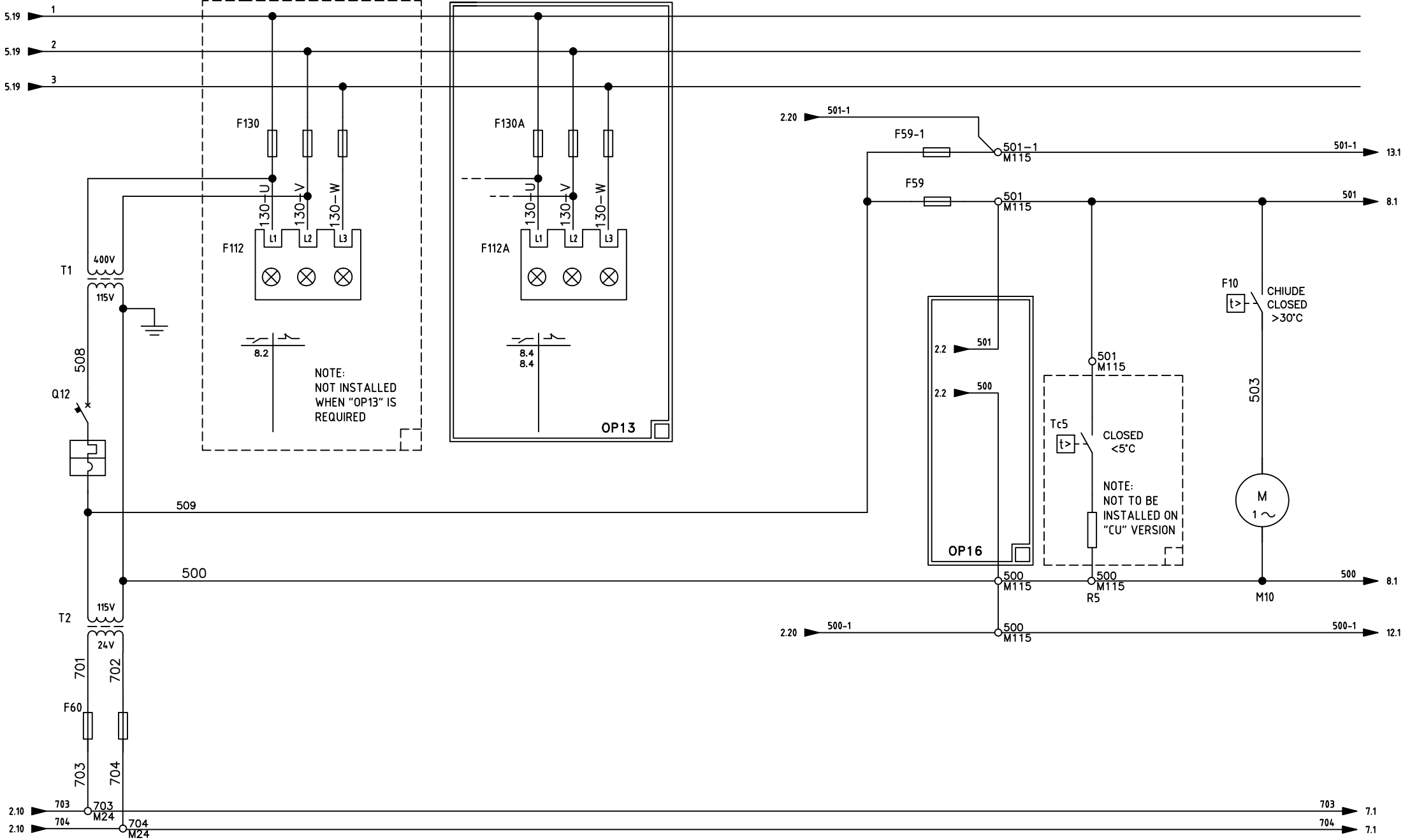
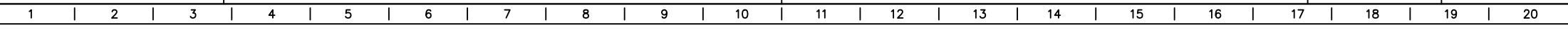


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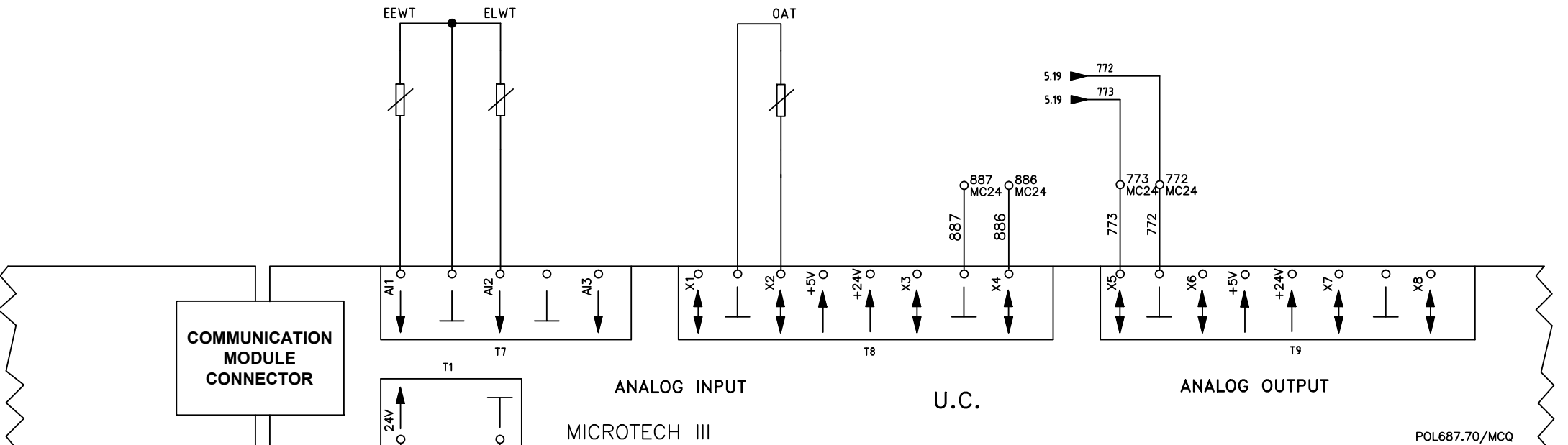
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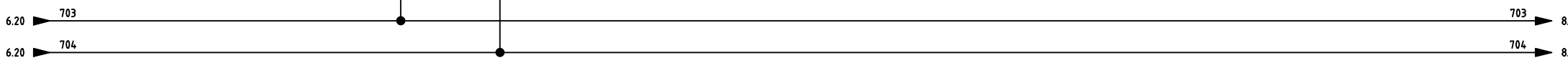
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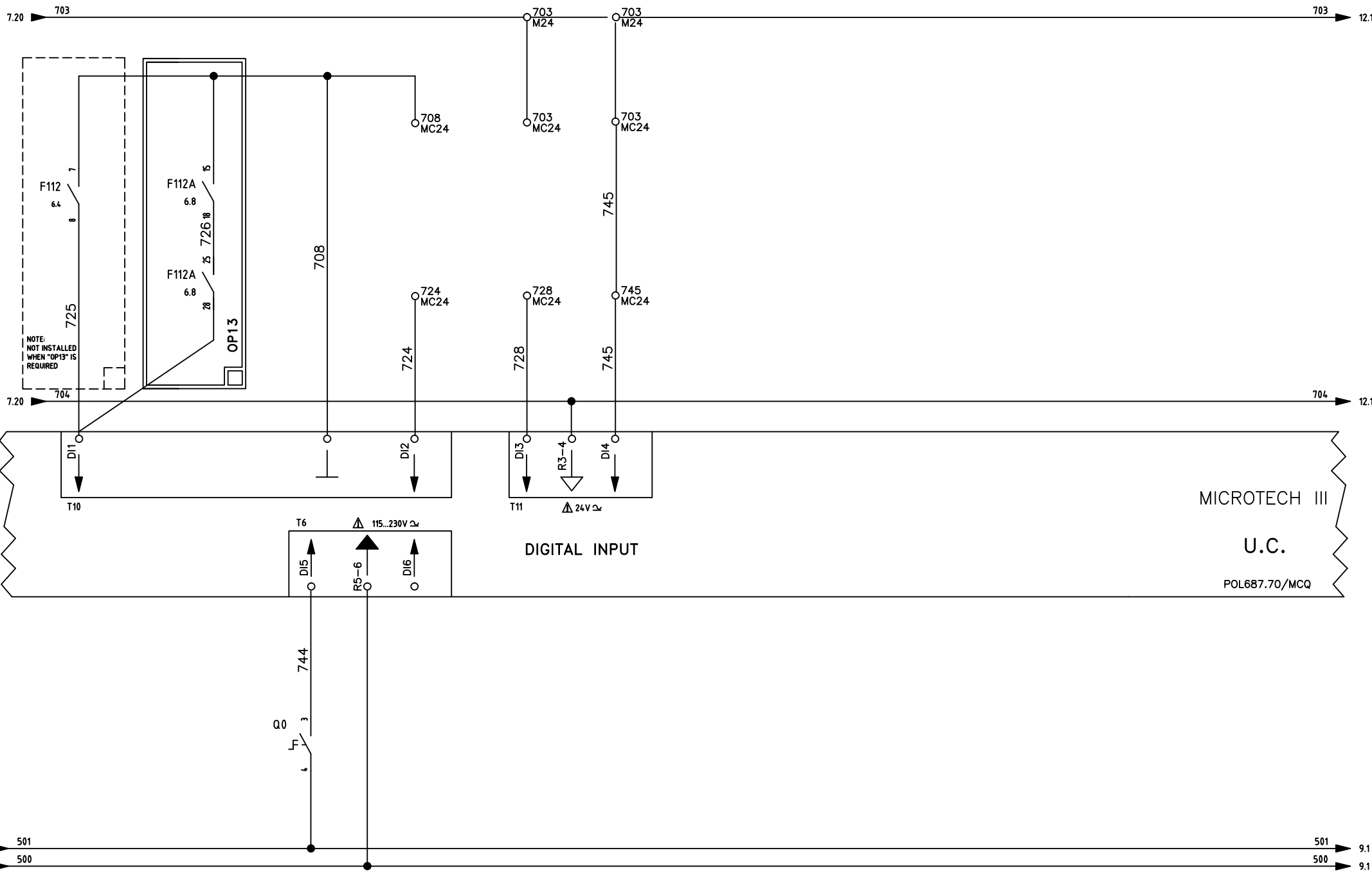


NOTE:
COMMUNICATION MODULE
(SEE SHEET 16)



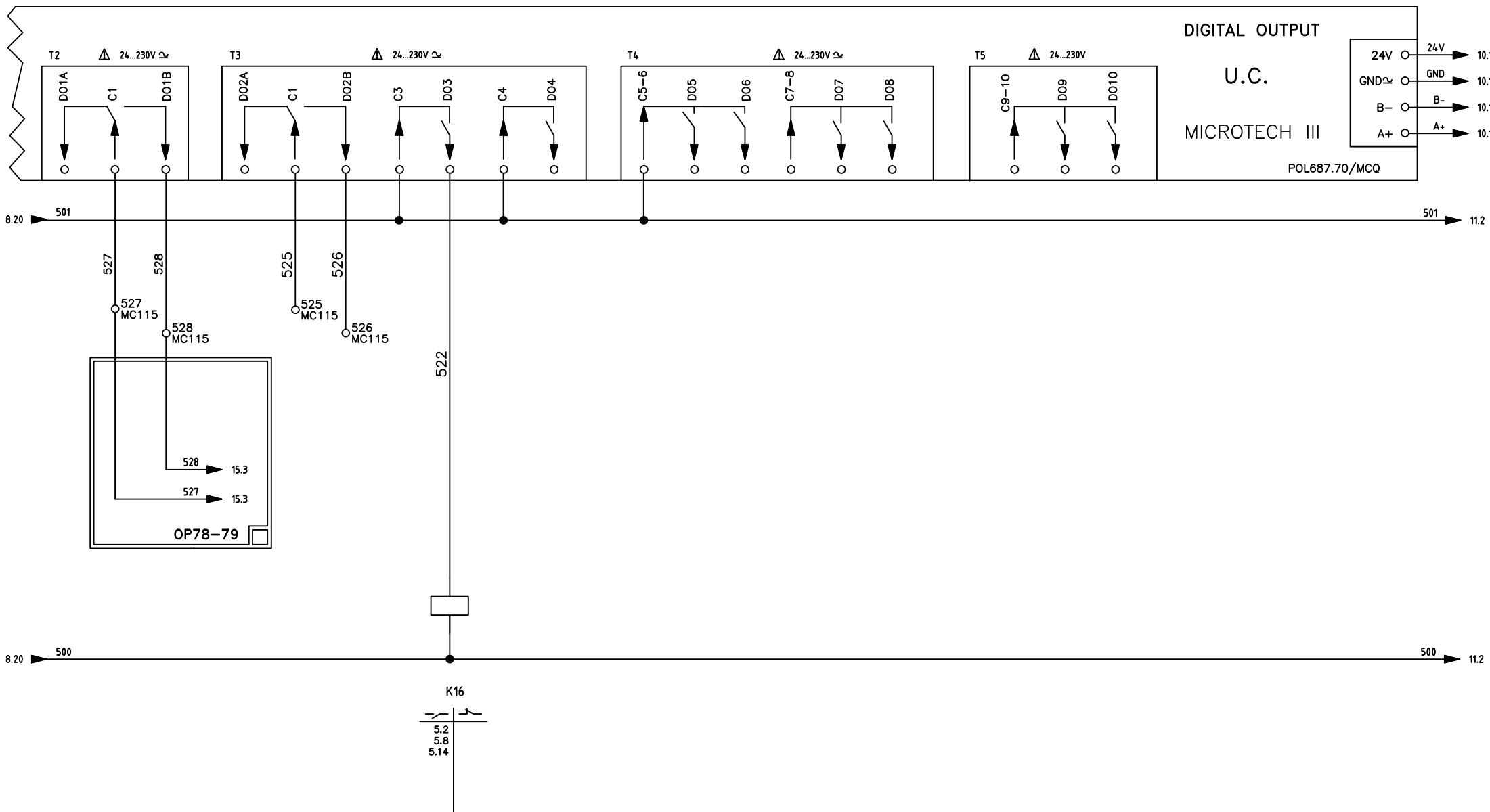
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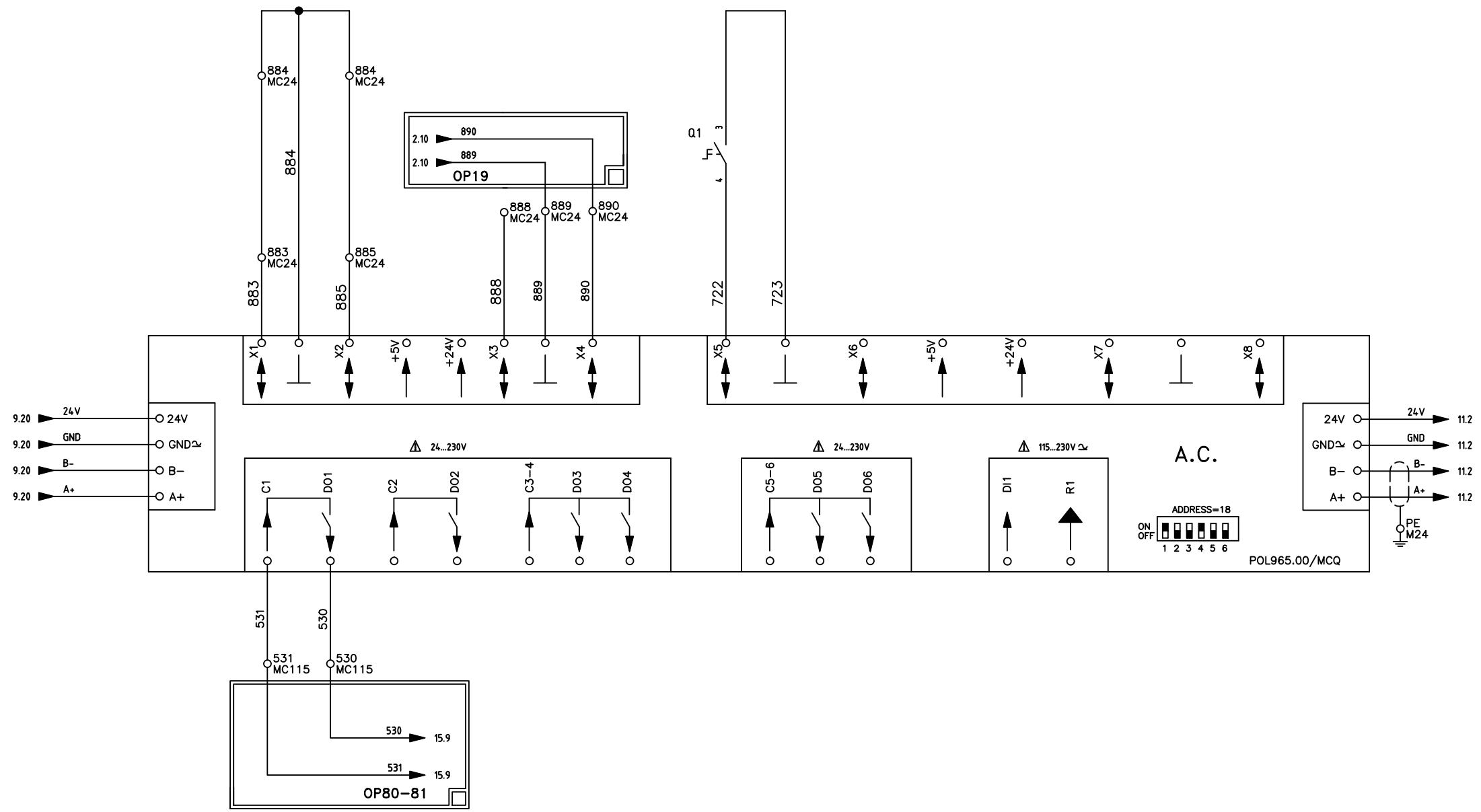


MICROTECH III
U.C.
POL687.70/MCQ

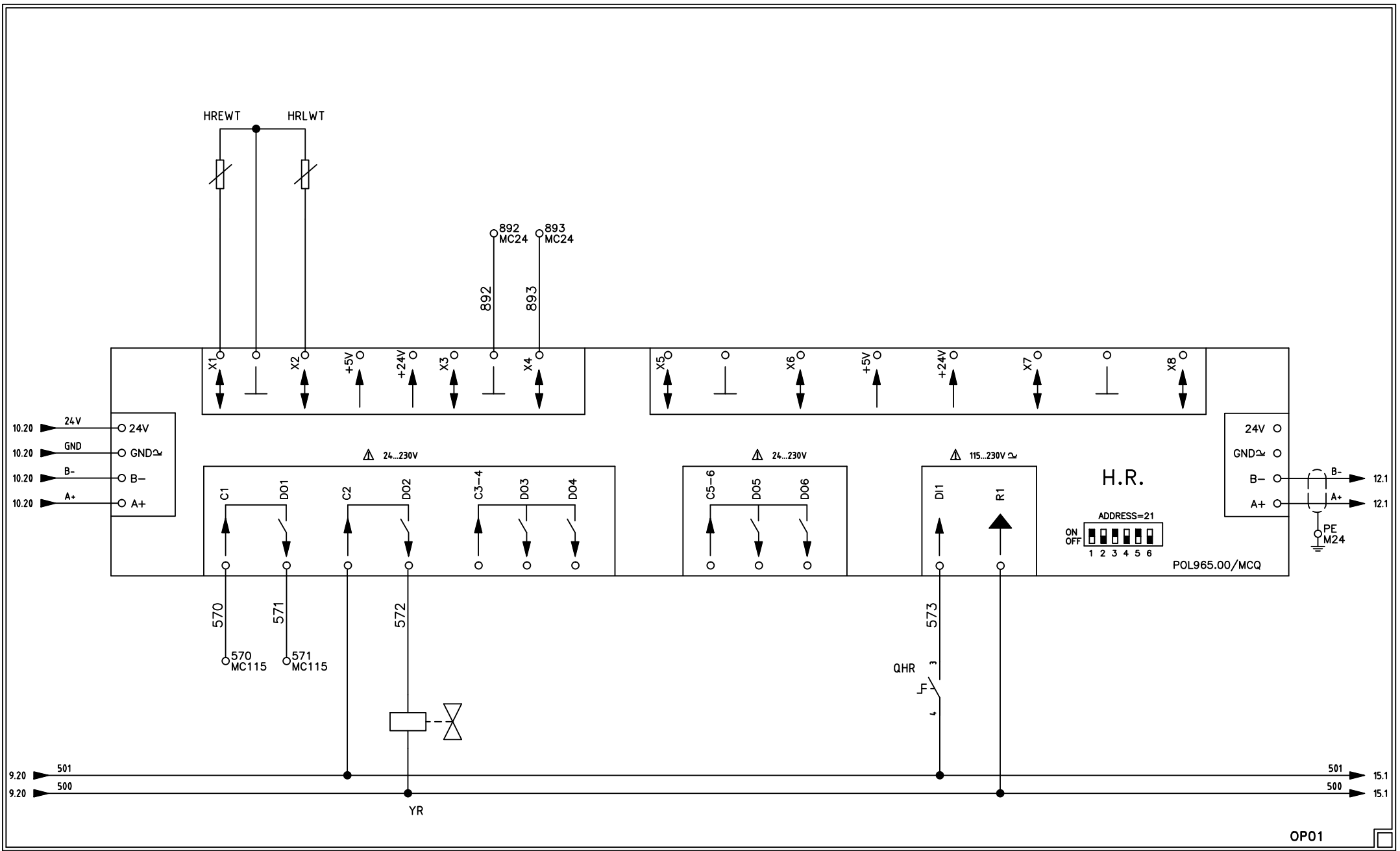
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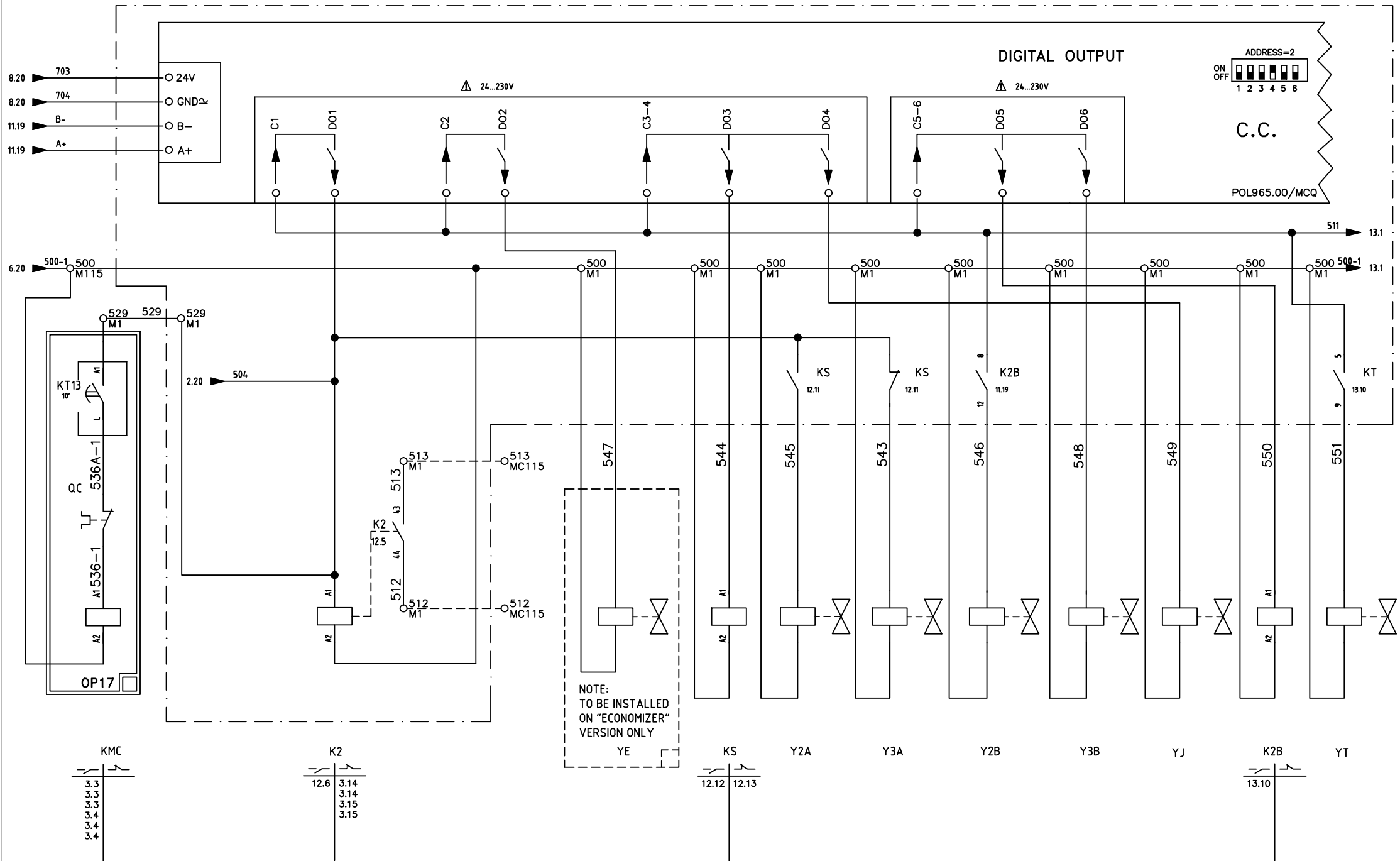


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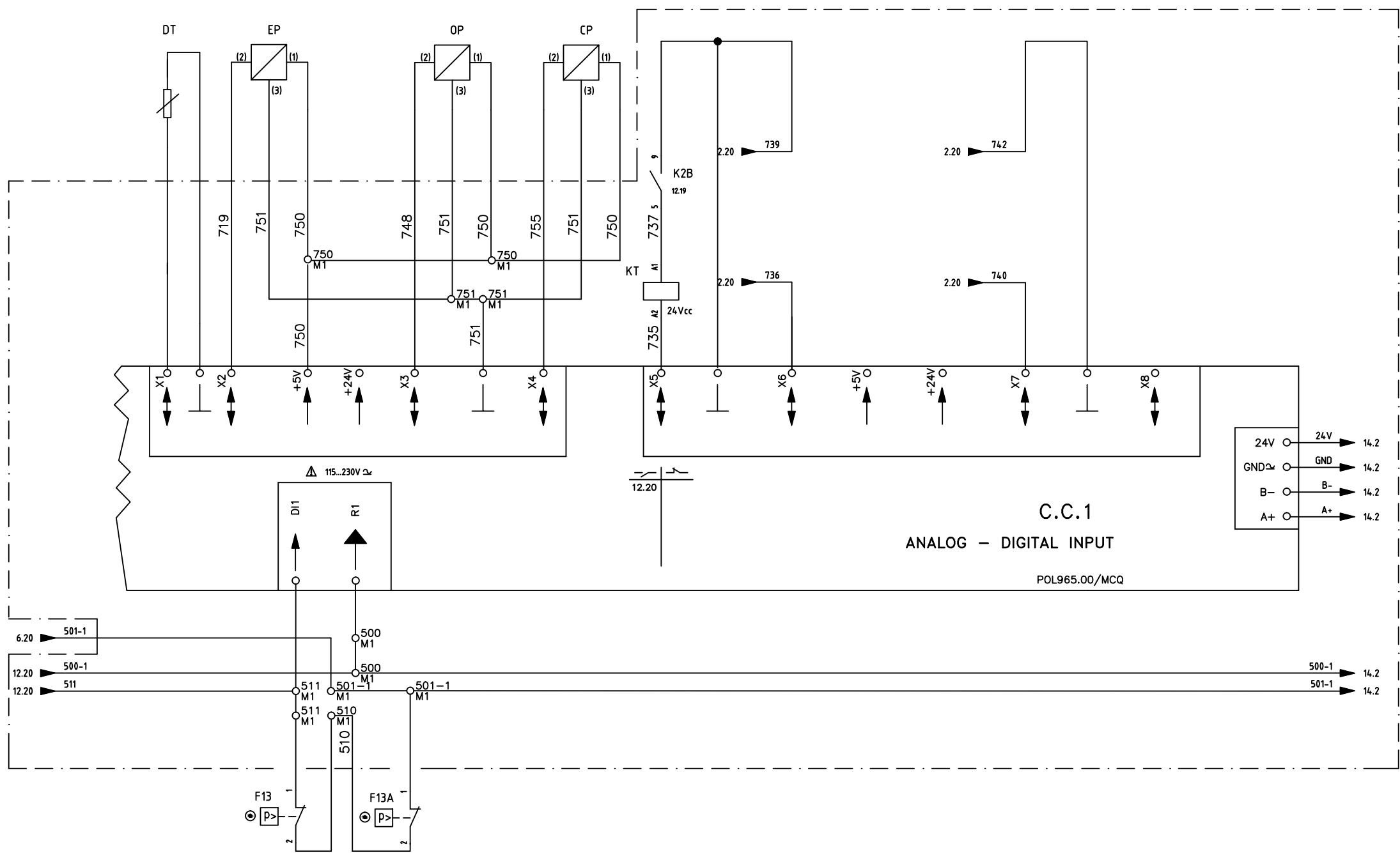


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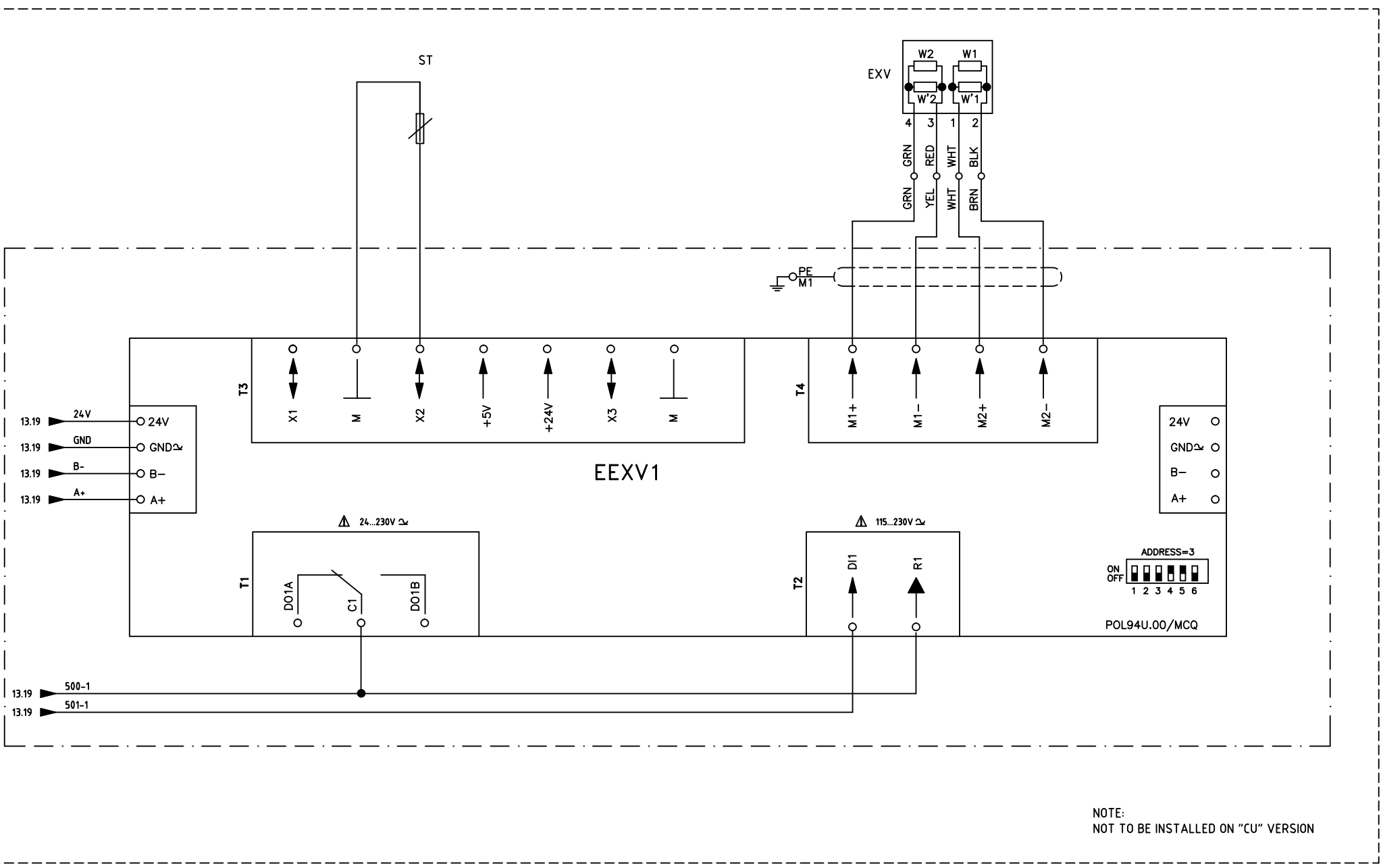




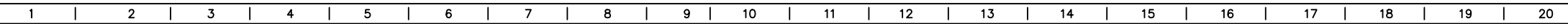
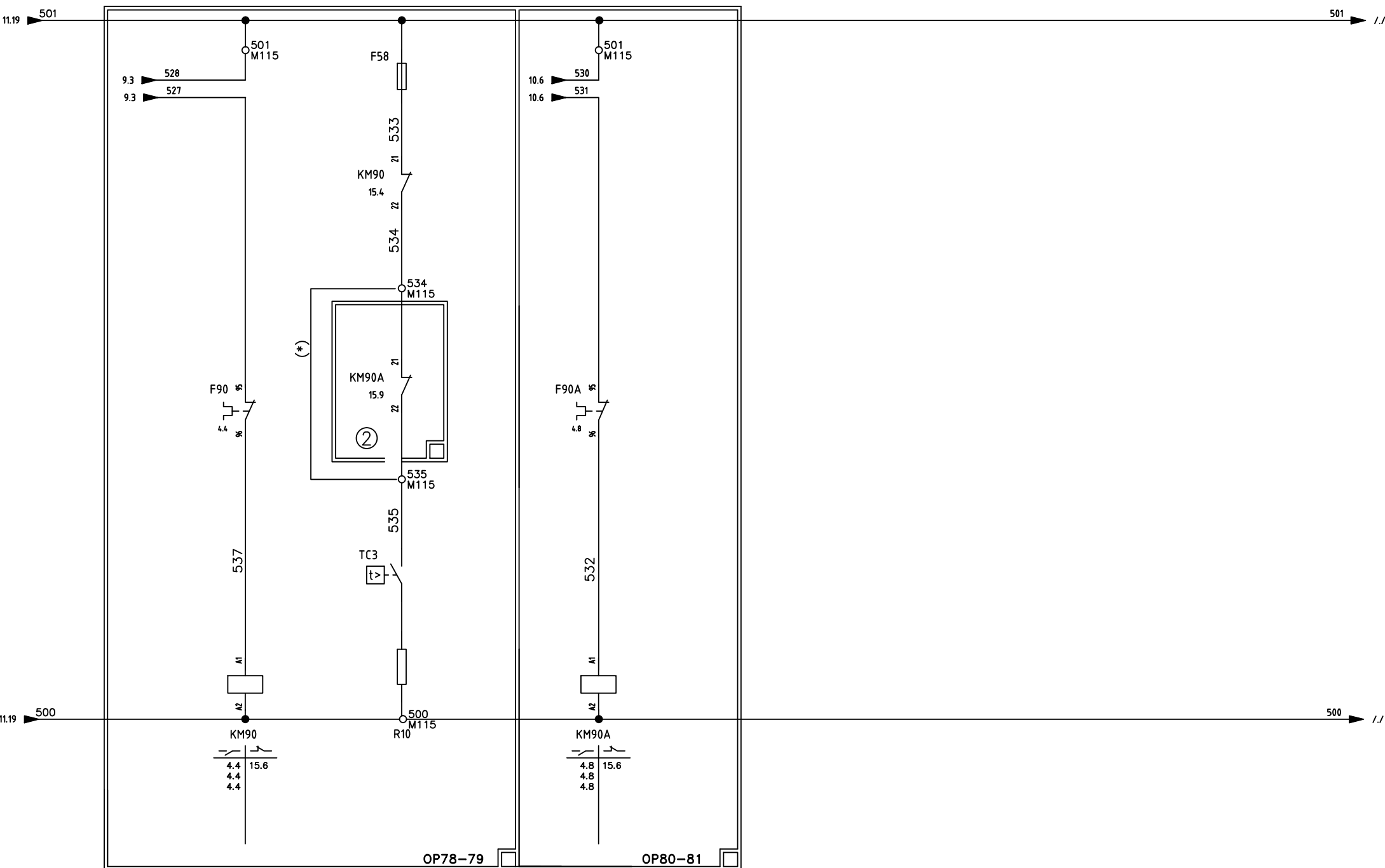
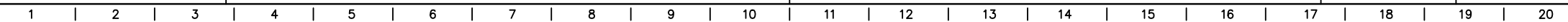
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1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

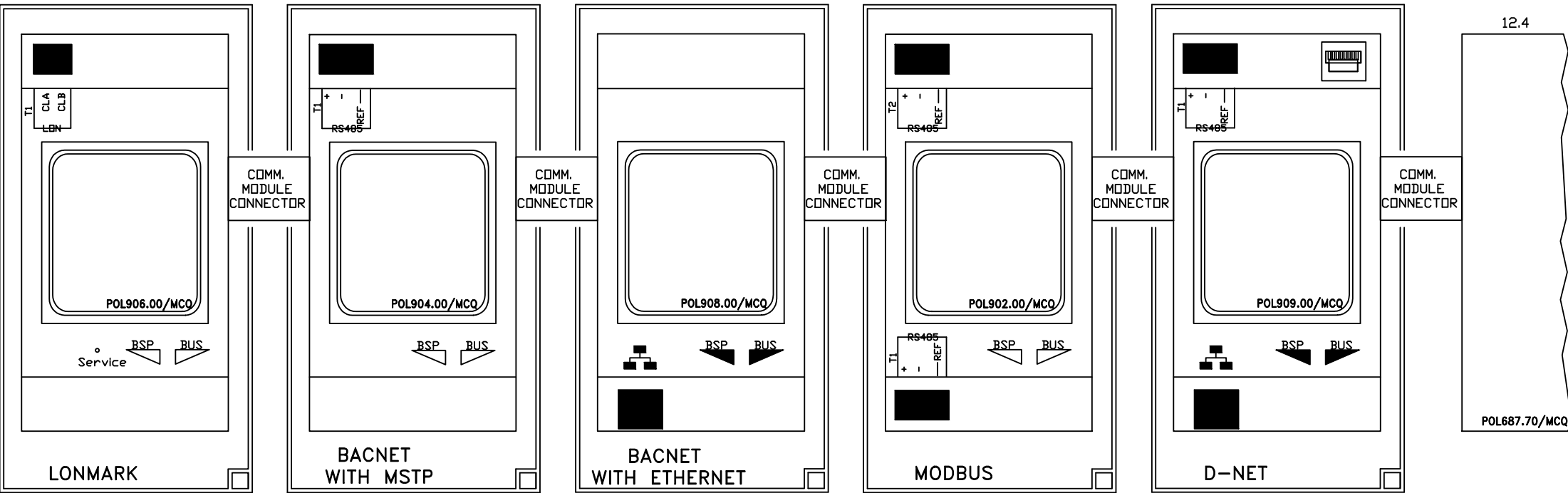
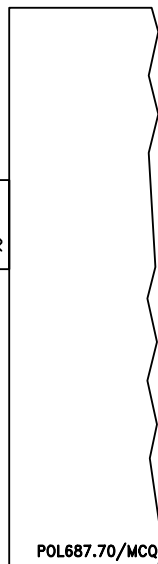


NOTE:
NOT TO BE INSTALLED ON "CU" VERSION



UNIT CONTR.

12.4



NOTES:

1. ANY OF THESE COMMUNICATION MODULES CAN DIRECTLY CONNECT TO THE LEFT SIDE OF THE UNIT CONTROLLER.
2. COMMUNICATION MODULES CAN CONNECT TO EACH OTHER.

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

	314
	315

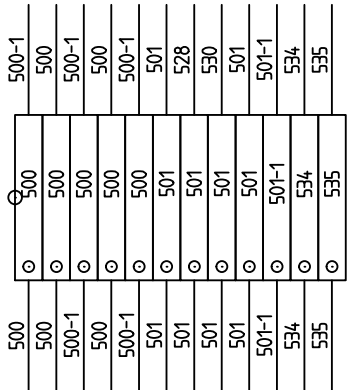


QG	-	M400	400V
QG	-	M400	400V

400V

QG - M115

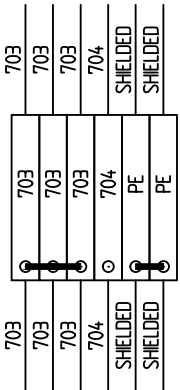
	6.15
	6.16
	12.1
	15.6
	6.15
	6.16
	15.4
	15.9
	6.15
	6.15
	15.6
	15.6



QG	-	M115	115V
QG	-	M115	115V
QG	-	M115	115V
QG	-	M115	115V
QG	-	M115	115V
QG	-	M115	115V
QG	-	M115	115V
QG	-	M115	115V
QG	-	M115	115V
QG	-	M115	115V
QG	-	M115	115V
QG	-	M115	2.5

115V

	6.2
	8.8
	8.10
	6.2
	10.19
	11.19



QG	-	M24	24V
QG	-	M24	24V
QG	-	M24	24V
QG	-	M24	24V
QG	-	M24	
QG	-	M24	

24V

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

ITEM	DESCRIPTION	SHEET	Q.ty
A.C.	ALARM CONTROL	10	1
A/V	ENERGY METER	2	1
C1	POWER FACTOR CORRECTION	3	1
C.C.	CONTROL COMPRESSOR (SIEMENS)	12	1
CF	CONTROL FUSES	23	1
CP	CONDENSER PRESSURE TRANSDUCER	13	1
CT1	CURRENT TRANSFORMER	2	1
CT2	CURRENT TRANSFORMER	2	1
CT3	CURRENT TRANSFORMER	2	1
DT	DISCHARGE TEMP. SENSOR (PT1000)	13	1
EEWT	EVAPORATOR ENTERING WATER TEMPERATURE	7	1
EEXV1	EXPANSION COMPRESSOR 1	14	1
ELWT	EVAPORATOR LEAVING WATER TEMPERATURE	7	1
EP	EVAPORATOR PRESSURE TRANSDUCER	13	1
ES1	SOFT-STARTER # 1	2	1
EXV	ELECTRONIC EXPANSION VALVE	14	1
F0	COMPRESSOR FUSES	3	1
F1	COMPRESSOR FUSES 1	2	1
F9	PUMP FUSES 1	4	1
F9A	PUMP FUSES 2	4	1
F10	TERMOSTAT	6	1
F13	MECH. HIGH PRESSURE SWITCH	13	1
F13A	MECH. HIGH PRESSURE SWITCH	13	1
F58	PUMP HEATER FUSE	15	1
F59	PROTECTION FUSES	6	1
F59-1	PROTECTION FUSE	6	1
F60	PROTECTION FUSE	6	1
F90	THERMAL RELAY PUMP 1	4	1
F90A	THERMAL RELAY PUMP 2	4	1
F100	FAN FUSES	5	1
F112	PHASE VOLT MONITOR	6	1
F112A	PHASE VOLT MONITOR	6	1
F130	PHASE VOLT MONITOR FUSE	6	1
F130A	PHASE VOLT MONITOR FUSE	6	1
F140	PHASE VOLT MONITOR FUSE	2	1
FC1	POWER FACTOR CORRECTION FUSES 1	3	1
FVD101	FAN SPEED MODULATION	5	1
FVD103	FAN SPEED MODULATION	5	1
FVD105	FAN SPEED MODULATION	5	1
H.R.	HEAT RECOVERY CONTROL BOARD	11	1
K2	CONTACTOR	12	1
K2B	AUXILIARY RELAY	12	1
K16	FAN MOTOR CONTACTOR	9	1
KM90	FIRST PUMP CONTACTOR	15	1
KM90A	FIRST PUMP CONTACTOR	15	1
KMC	POWER FACTOR CORRECTION CONTACTORS	12	1
KS	AUXILIARY RELAY	12	1

ITEM	DESCRIPTION	SHEET	Q.ty
KT	AUXILIARY RELAY	13	1
KT13	TIME DELAY RELAY	12	1
M1	COMPRESSOR 1	2	1
M10	FORCED VENTILATION FAN MOTOR	6	1
M101	FAN MOTOR	5	1
M102	FAN MOTOR	5	1
M103	FAN MOTOR	5	1
M104	FAN MOTOR	5	1
M105	FAN MOTOR	5	1
M106	FAN MOTOR	5	1
OAT	OUTSIDE AIR TEMPERATURE	7	1
OP	OIL PRESSURE TRANSDUCER	13	1
OP01	TOTAL HEAT RECOVERY	11	1
OP13	UNDER/OVER VOLTAGE CONTROL	6	1
OP16	A/V METER	2	1
OP17	POWER FACTOR CORRECTION	3	1
OP19	CURRENT LIMIT	2	1
OP78-79	ONE CENTRIFUGAL PUMP	4	1
OP80-81	TWO CENTRIFUGAL PUMP	4	1
OP95	COMPRESSOR CIRCUIT BREAKER	2	1
P1	PUMP 1	4	1
P2	PUMP 2	4	1
Q0	UNIT ON - OFF	8	1
Q1	CIRCUIT SWITCH 1	10	1
Q1-1	COMPRESSOR CIRCUIT BREAKER	2	1
Q10	MAIN SWITCH	2	1
Q12	AUTOMATIC CIRCUIT BREAKER	6	1
QC1	THERMAL RELAY	3	1
QHR	HEAT RECOVERY SWITCH	11	1
R1	COMPRESSOR CRANKCASE HEATER CIRC.1	3	1
R5	EVAPORATOR HEATER (EXCEPT CONDENSING UNITS)	6	1
R10	PUMP HEATER (100W)	15	1
SC	CURRENT LIMIT	2	1
SF	STANDARD FAN	23	1
SP	STANDARD PUMPS	23	1
ST	SUCTION TEMPERATURE SENSOR 1	14	1
STD	STANDARD FAN	23	1
T1	400/115V TRANSFORMER	6	1
T2	115/24V TRANSFORMER	6	1
TA1	AMMETER TRANSFORMER	2	1
TA3	AMMETER TRANSFORMER	2	1
TA4	AMMETER TRANSFORMER	2	1
TC3	TERMOSTAT (CLOSED-5°C)	15	1
TRAFO	TRANSFORMER	23	1
Tc5	TERMOSTAT	6	1
U.C.	UNIT CONTROL	7	1
W1	COMPRESSOR THERMISTOR CIRC. 1	2	1

ITEM	DESCRIPTION	SHEET	Q.ty
Y2A	LOADER SOL. VALVE	12	1
Y2B	LOADER SOL. VALVE	12	1
Y3A	UNLOADER SOL. VALVE	12	1
Y3B	UNLOADER SOL. VALVE	12	1
YE	ECONOMIZER SOLENOID VALVE (ECONOMIZER UNITS ONLY)	12	1
YJ	LIQUID INJECTION SOLENOID VALVE	12	1
YR	RECOVERY SUBCOOLING SOLENOID VALVE	11	1
YT	TURBO SOLENOID VALVE	12	1

SCO = Standard Compressor Fuse + Overcurrent								
ITEM	F3AS-R134a	F3AL-R134a	F3BS-R134a	F3BL-R134a	F4AS-R134a	F4AL-R134a	F4AXL-R134a	
	HSA192	HSA204	HSA215	HSA232	HSA241	HSA263	HSA269	
F1,F2,F3	200 A gG NH1	200 A gG NH1	250 A gG NH1	315 A gG NH2	315 A gG NH2	500 A gG NH3	500 A gG NH3	
F5-1,2,3	Set (OP11)	99 A	113 A	142 A	169 A	199 A	238 A	262 A
F1,F2,F3	Set (OP95)	171 A	194 A	245 A	291 A	342 A	410 A	452 A

Option	Description
OP01	Total Heat Recovery
OP11	Thermal Relay
OP13	Under/Over Voltage Control
OP16	Energy Meter
OP17	Power Factor Correction
OP19	Current limit/Display
OP78-79	One Centrifugal Pump
OP80-81	Two Centrifugal Pump
OP95	Compressor Circuit Breaker
SPN95	Forced Ventilatin

SP=Standard pump fuses + overcurrent						
ITEM	1,5 kW	2,2 kW	3 kW	4 kW	5,5 kW	
F9	20 A	20 A	20 A	20 A	20 A	
F9A	20 A	20 A	20 A	20 A	20 A	
F70	3,5 A	5 A	6,5 A	8,5 A	11 A	
F80	3,5 A	5 A	6,5 A	8,5 A	11 A	

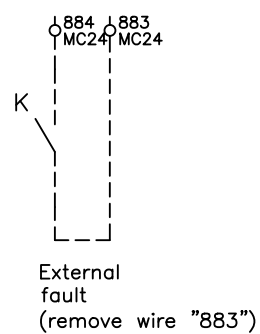
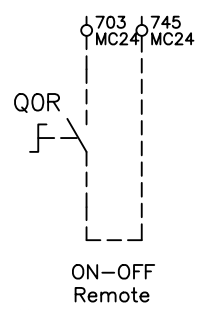
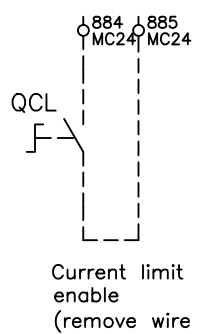
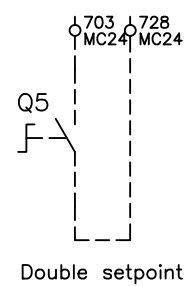
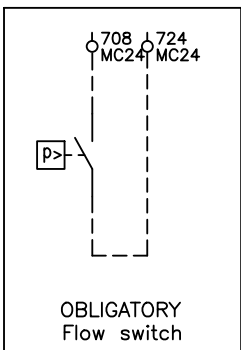
TRAFO=Transformer size	
ITEM	
T1	500 VA
T2	200 VA

CF=Control fuses+size	
ITEM	
F0	2 A
Q12	4 A
F130	4 A
F130A	4 A
F59	2 A
F59A	2 A
F60	2 A

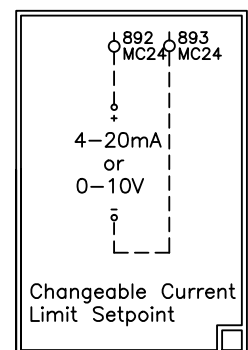
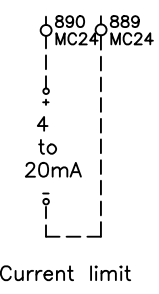
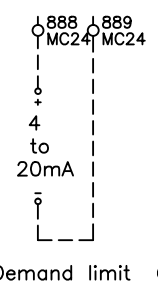
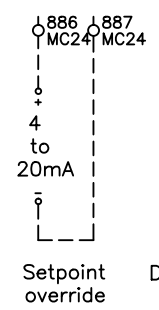
OP17 Power Factor Correction - Capacitor + Overcurrent							
ITEM	F3AS-R134a	F3AL-R134a	F3BS-R134a	F3BL-R134a	F4AS-R134a	F4AL-R134a	F4AXL-R134a
	HSA192	HSA204	HSA215	HSA232	HSA241	HSA263	HSA269
FC1,2,3	35 A gG E18	35 A gG E18	35 A gG E18	35 A gG E18	50 A gG E18	50 A gG E18	63 A gG E18
QC1,2,3	25 A	25 A	25 A	25 A	30 A	30 A	40 A

SF=Standard fan fuses + overload				STD =Standard	
FAN TYPE	OVERLOAD	n° FANS		FUSES	6
		1 FAN	2 FAN		
MCDK800-6P	Q101÷Q103	4,0 A	8,0 A	F100	35 A
MCDK800-8P	Q101÷Q103	2,8 A	5,6 A	F100	35 A

Digital input terminals



Analog input terminals



Digital output terminals

