

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	TERMINALS M01 - M1
18	TERMINALS M400 - M115 - M24
19	TERMINALS MC24 - MC115
20	LEGEND
21	LEGEND
22	LEGEND
23	NOTES
24	FIELD WIRING CONNECTION

EWAD 100E ÷ 210E-SS/SL

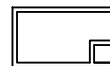
100 120 130 140 160 180 210

ERAD 120E ÷ 250E-SS/SL

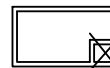
120 140 160 170 190 200 210 220 240 250

- VERSIONE SOFT-STARTER -
 - SOFT-STARTER VERSION -

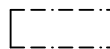
- MicroTech® III -



OPTIONAL EQUIPMENTS



EQUIPMENT INSTALLED



ELECTRICAL EQUIPMENT
 INSTALLED ON COMPRESSOR
 TERMINALS BOX



NOT TO BE INSTALLED ON "CU" VERSION



FIELD WIRING CONNECTIONS



REMOVE THIS WIRE OR MJ IF THE OPTION IS REQUESTED



MANUAL RESET

REV.	DATE	HISTORY REVISIONS	DWG.	CHECK.	PASSED.
8	02/09/13	Added Compressor Circuit Breaker (OP95) to pag.2	SG.	MP.	
7	10-10-11	Revised pag. 2 e 23	M.P.	M.P.	
6	28-07-11	Added terminal "529" M115 to pag.12	M.P.	M.P.	
5	14-01-11	Changed EEXV to pag. 14	M.P.	M.P.	
4	15-12-10	Changed fans VFD as ECO. 2899 to pag. 5	M.P.	M.P.	
3	24-05-2010	Added "CU" indication version to pag. 6-12-14	M.P.	M.P.	
2	19-05-2010	Removed exv numeration cable to pag. 14	M.P.	M.P.	
1	11-05-2010	Revised pag. 10	M.P.	M.P.	

DIAGRAM N.:

180443

File: (180443/1804431)

Code ID:

DATE: 06/05/2010

REV: 8

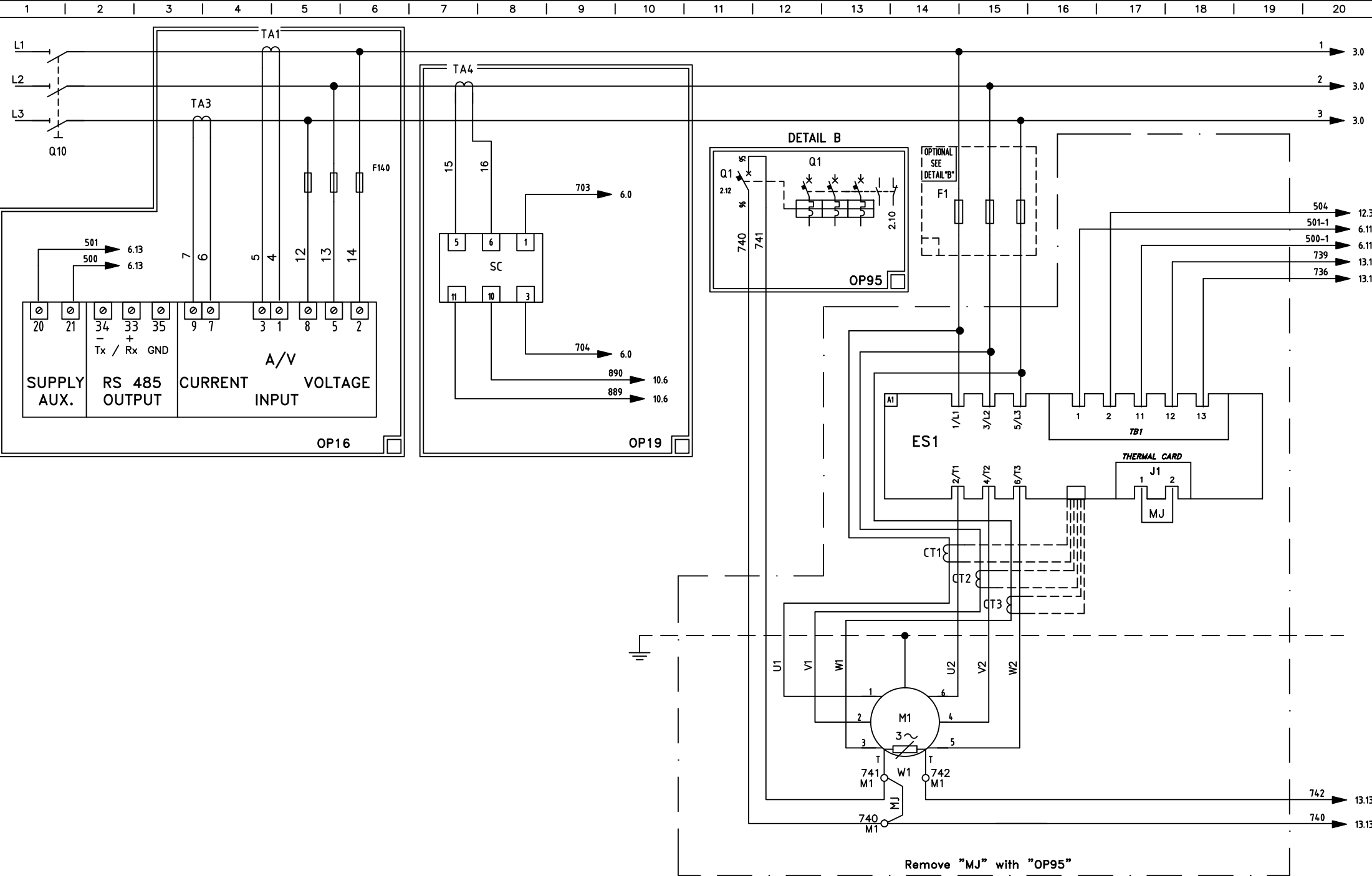
DWG.

DAIKIN EUROPE NV

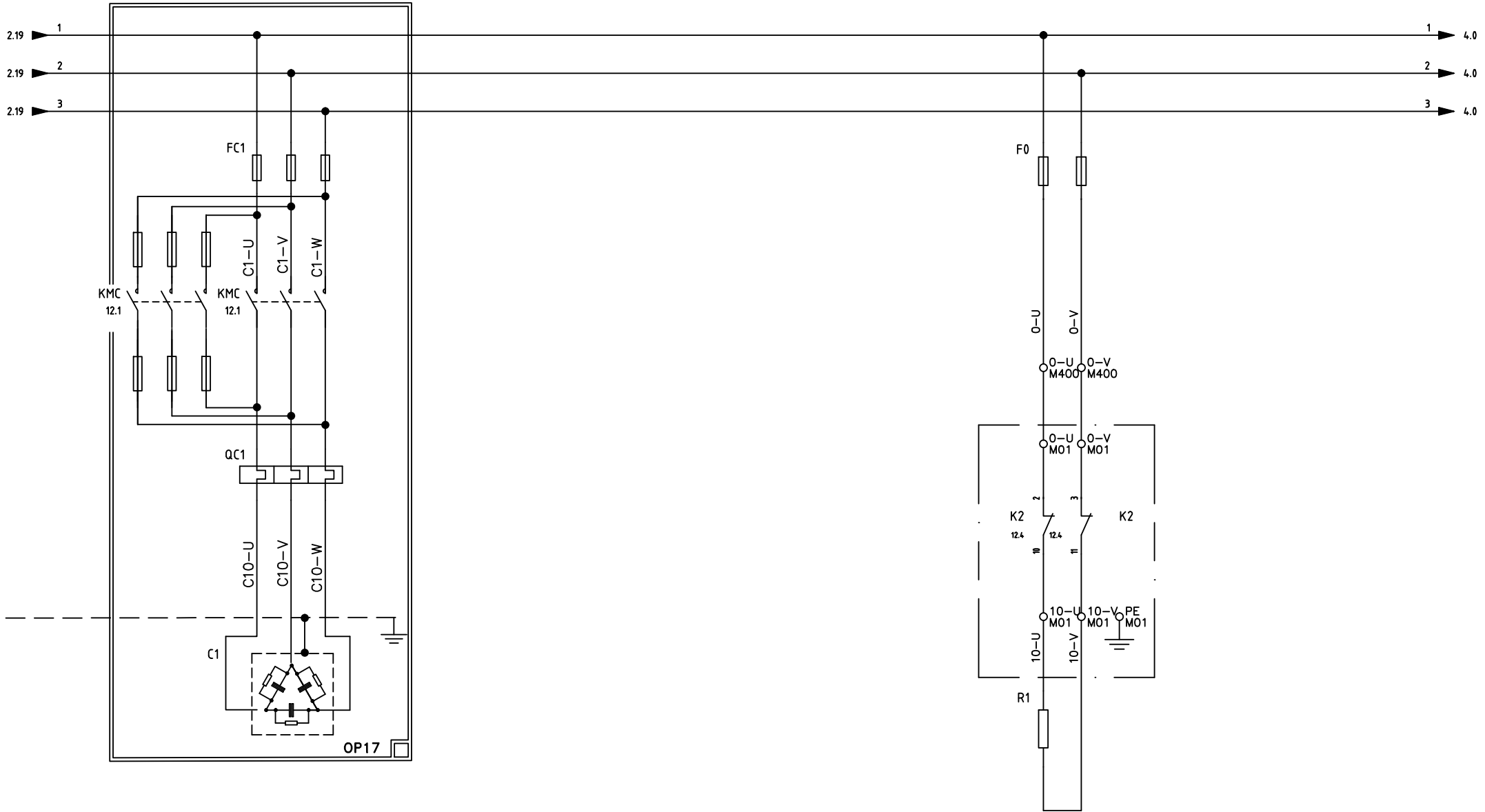
This document is reserved property. Reproduction or use for any purpose without our authorization is strictly forbidden by law.

CHECK.

PASSED.

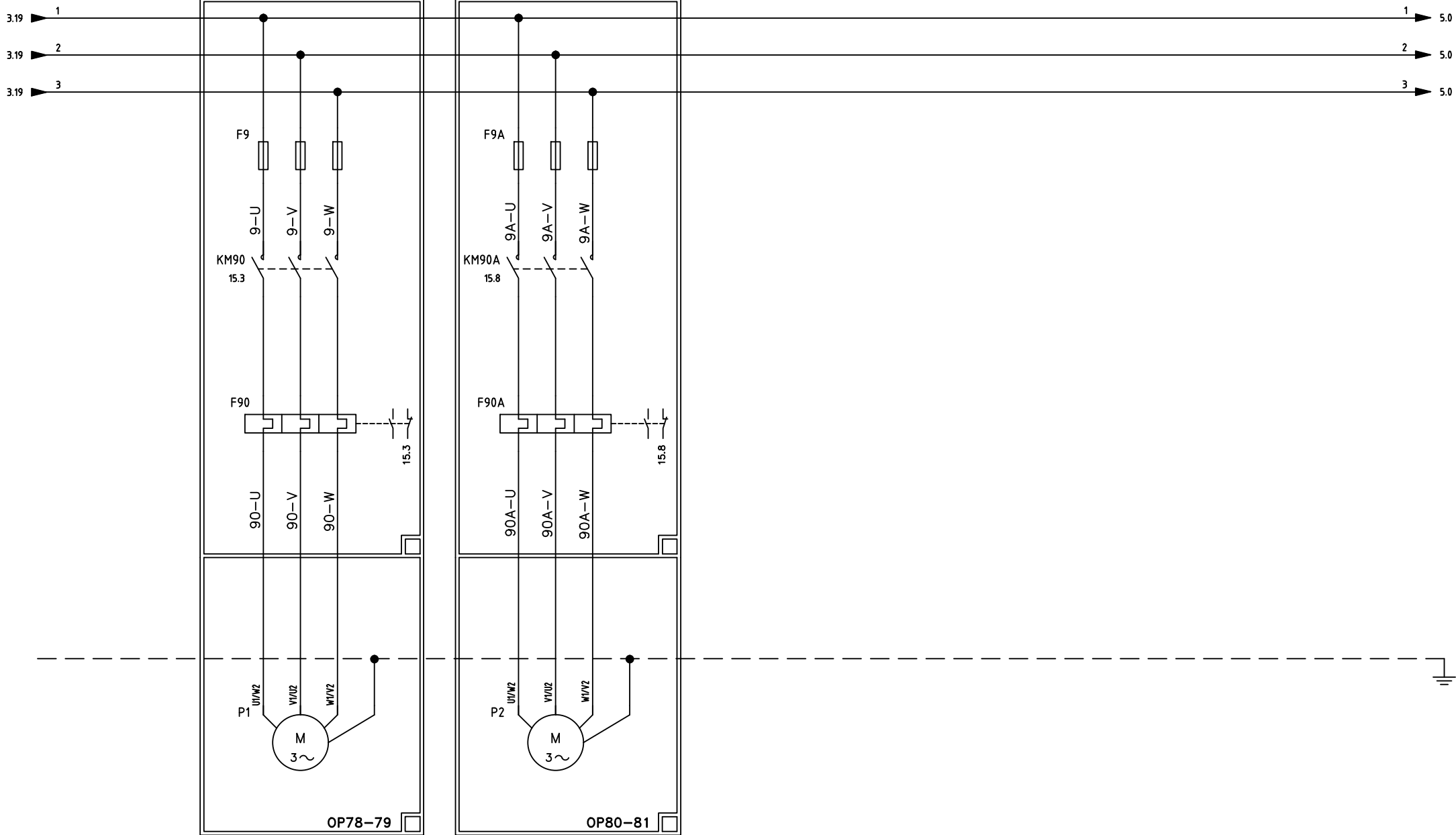


1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20



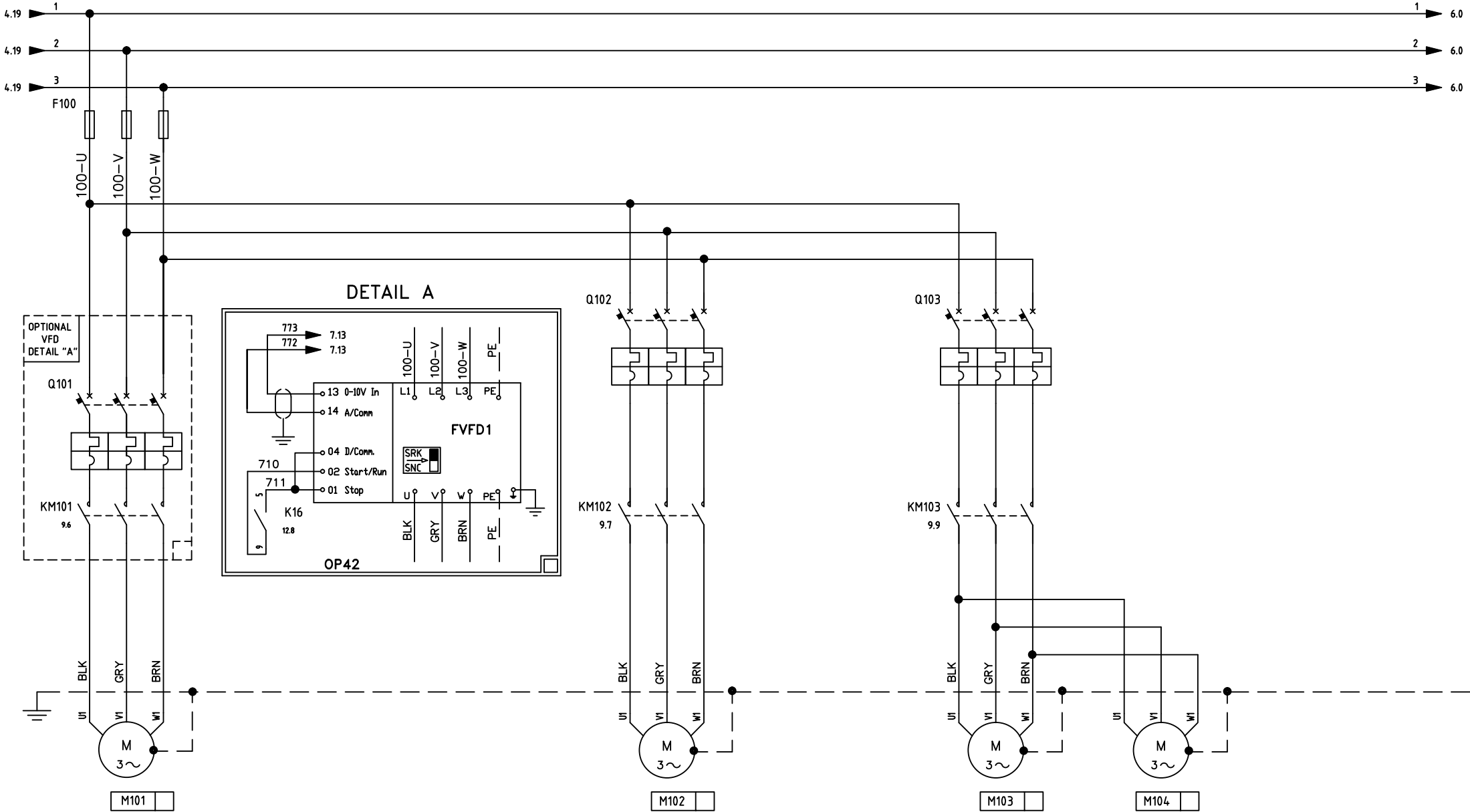
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

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

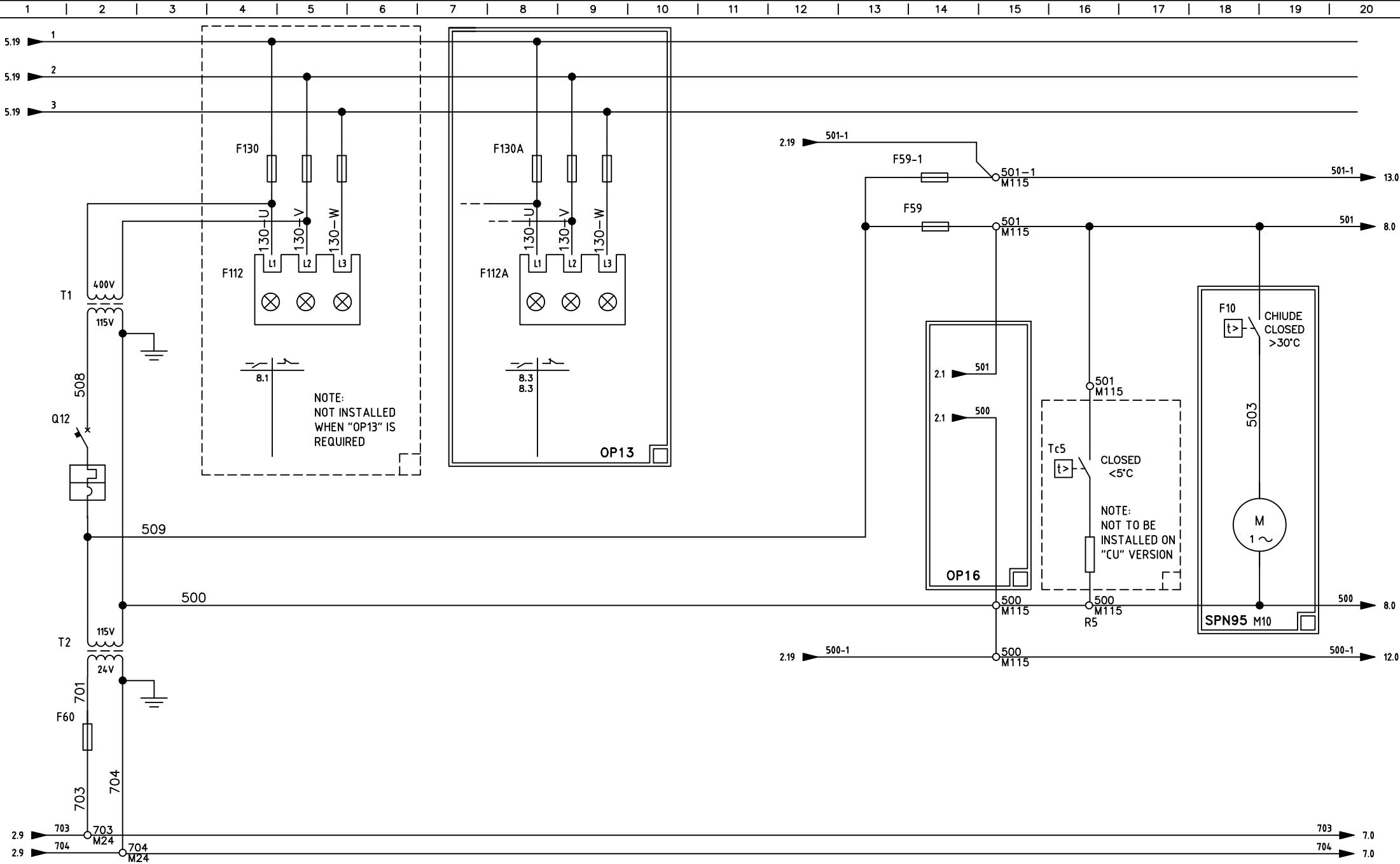


1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

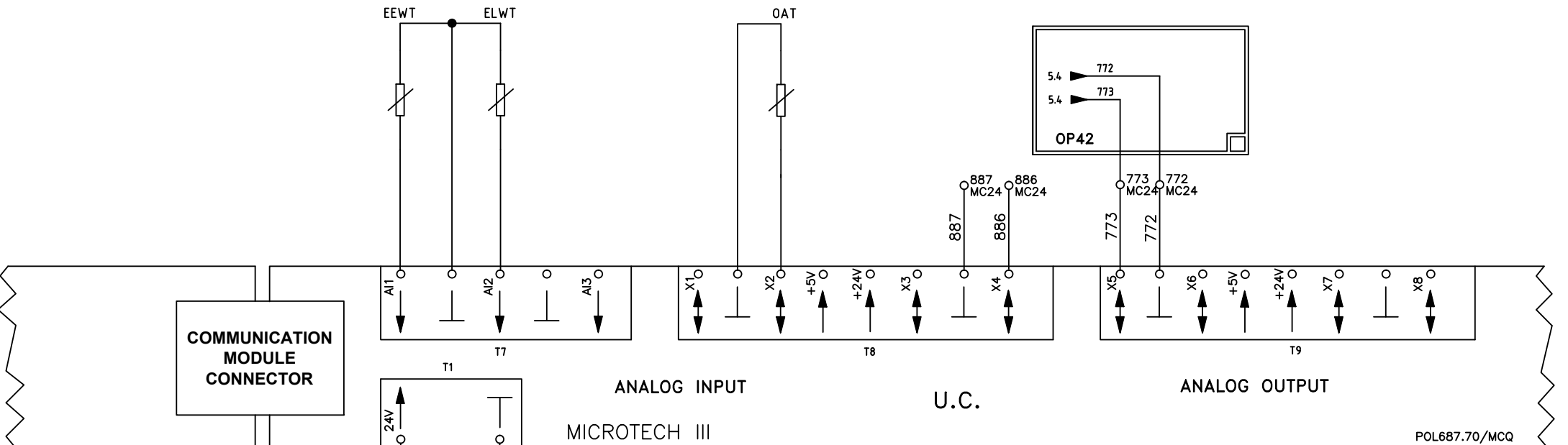
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20



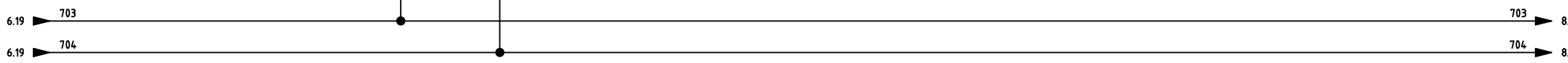
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20



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

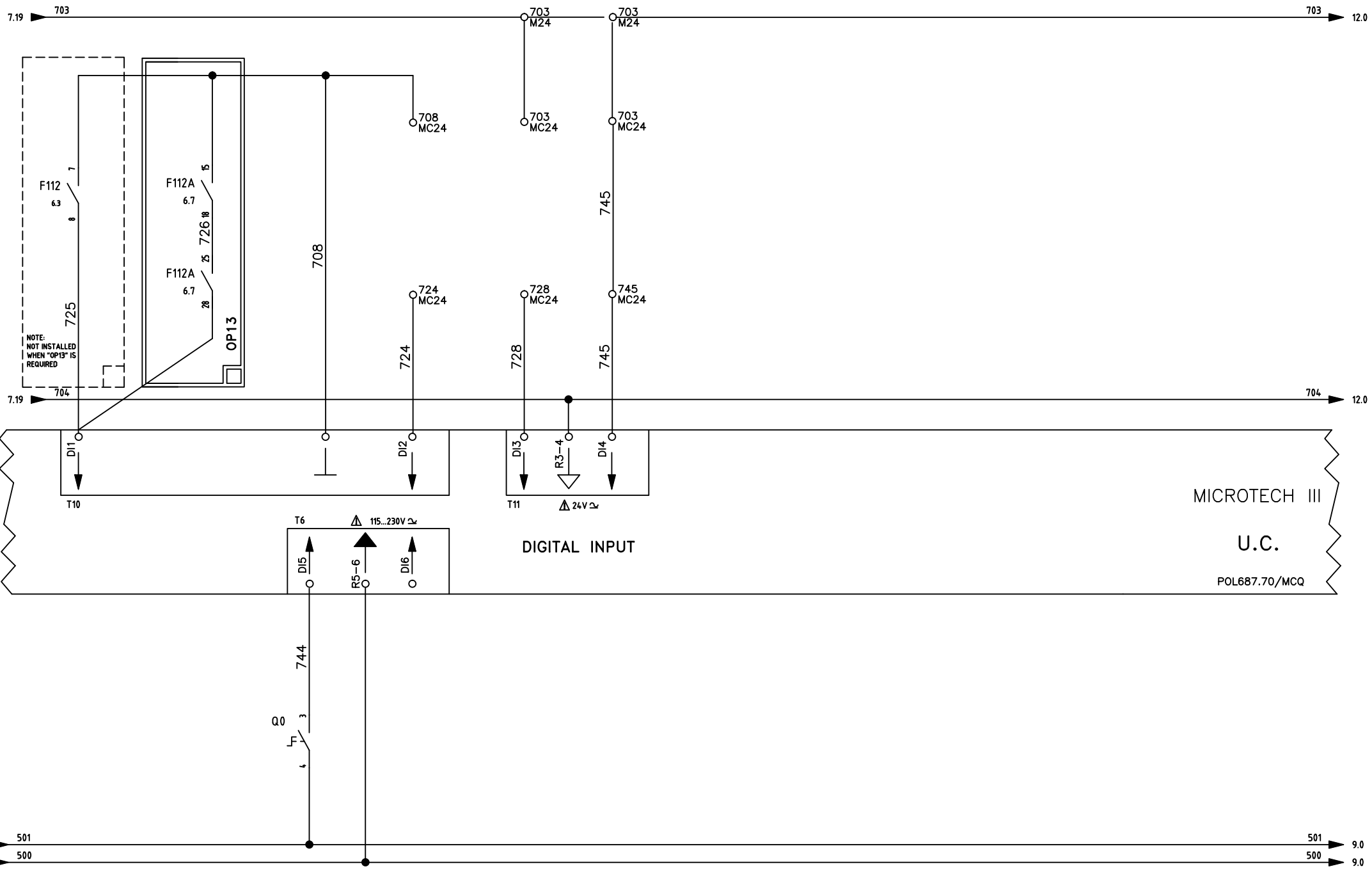


NOTE:
COMMUNICATION MODULE
(SEE SHEET 16)



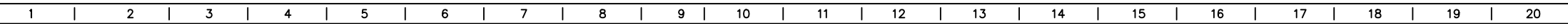
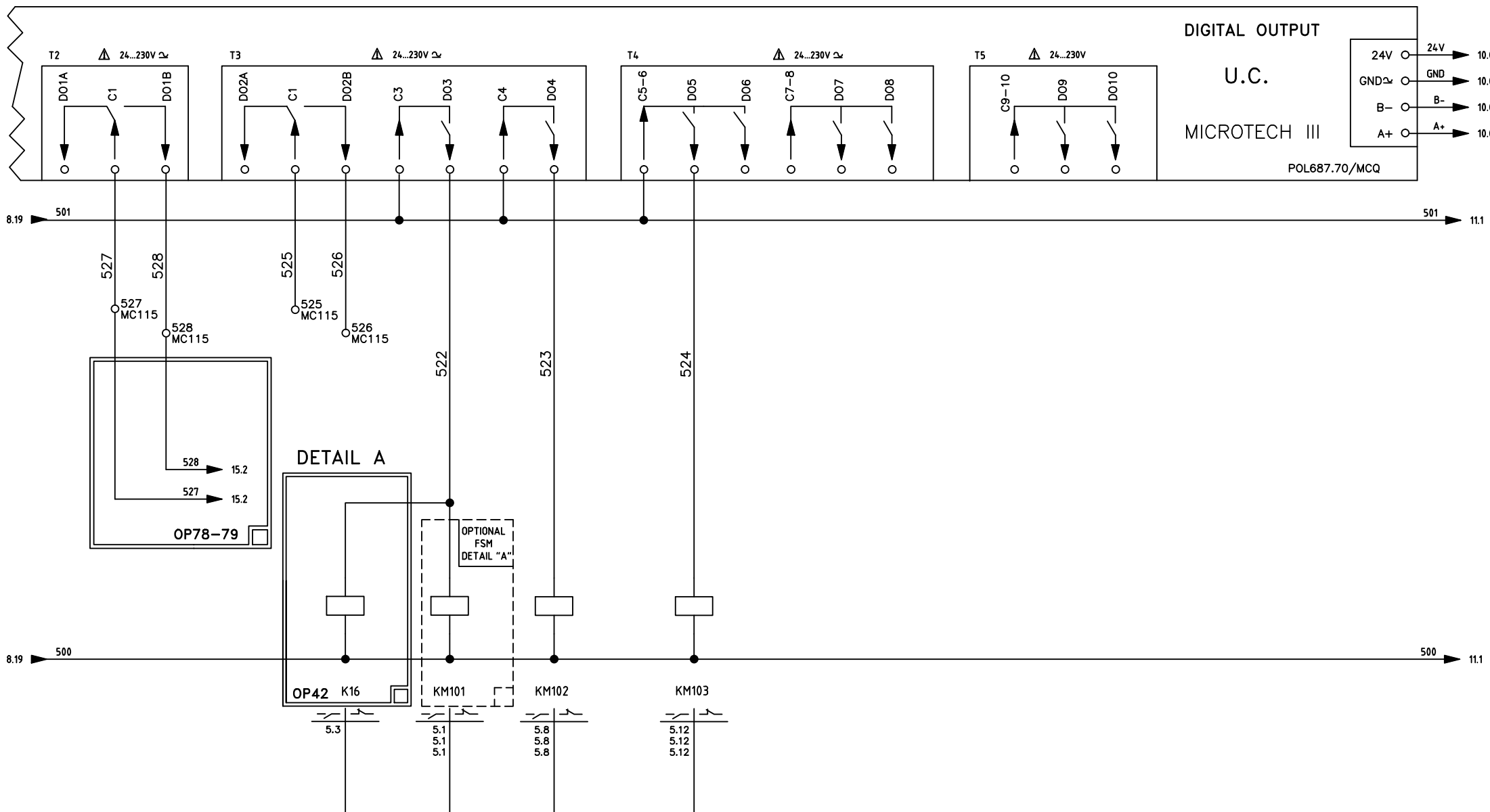
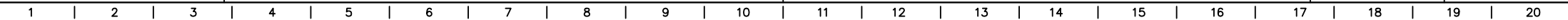
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

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

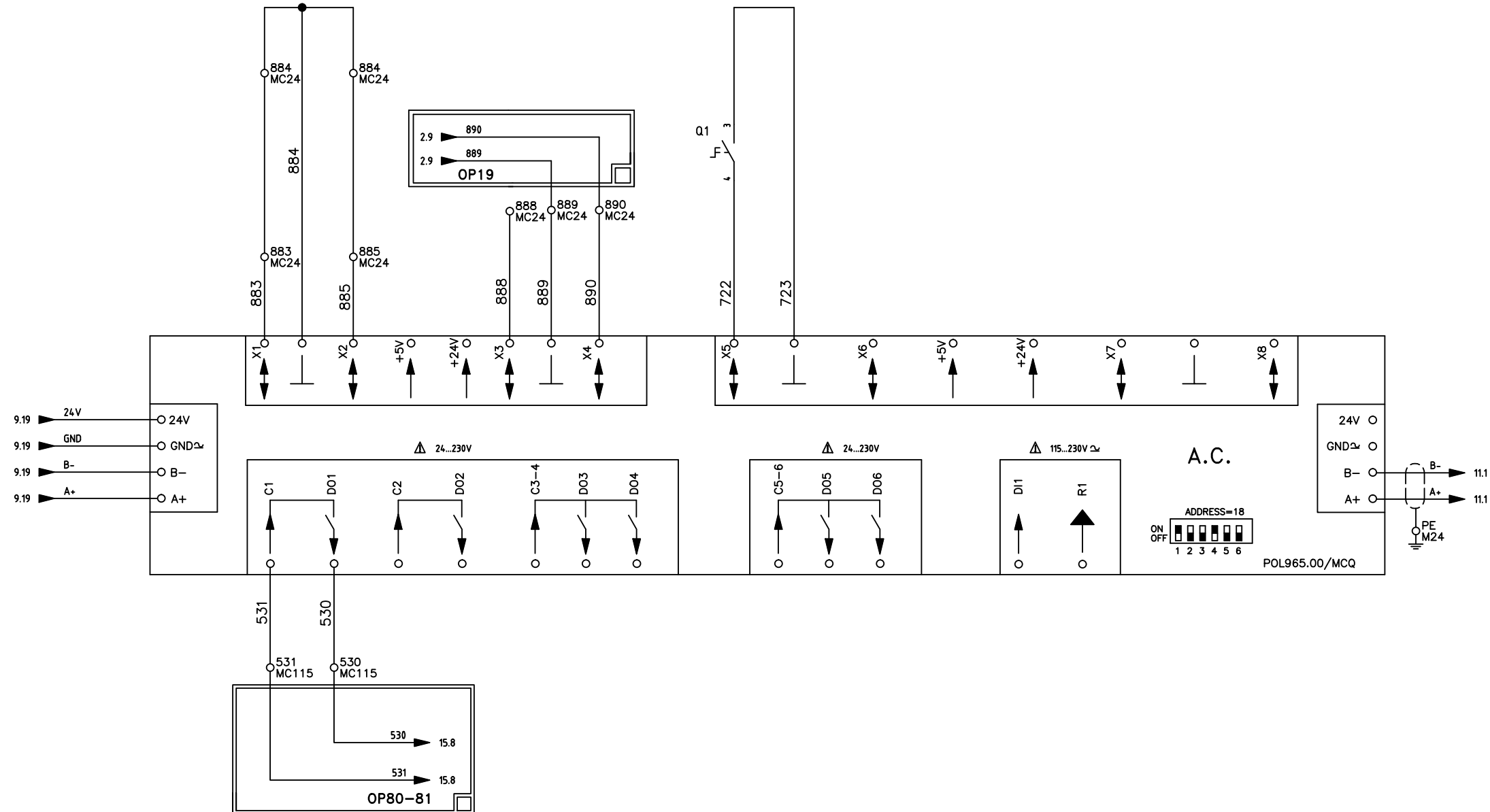


MICROTECH III
U.C.
POL687.70/MCQ

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

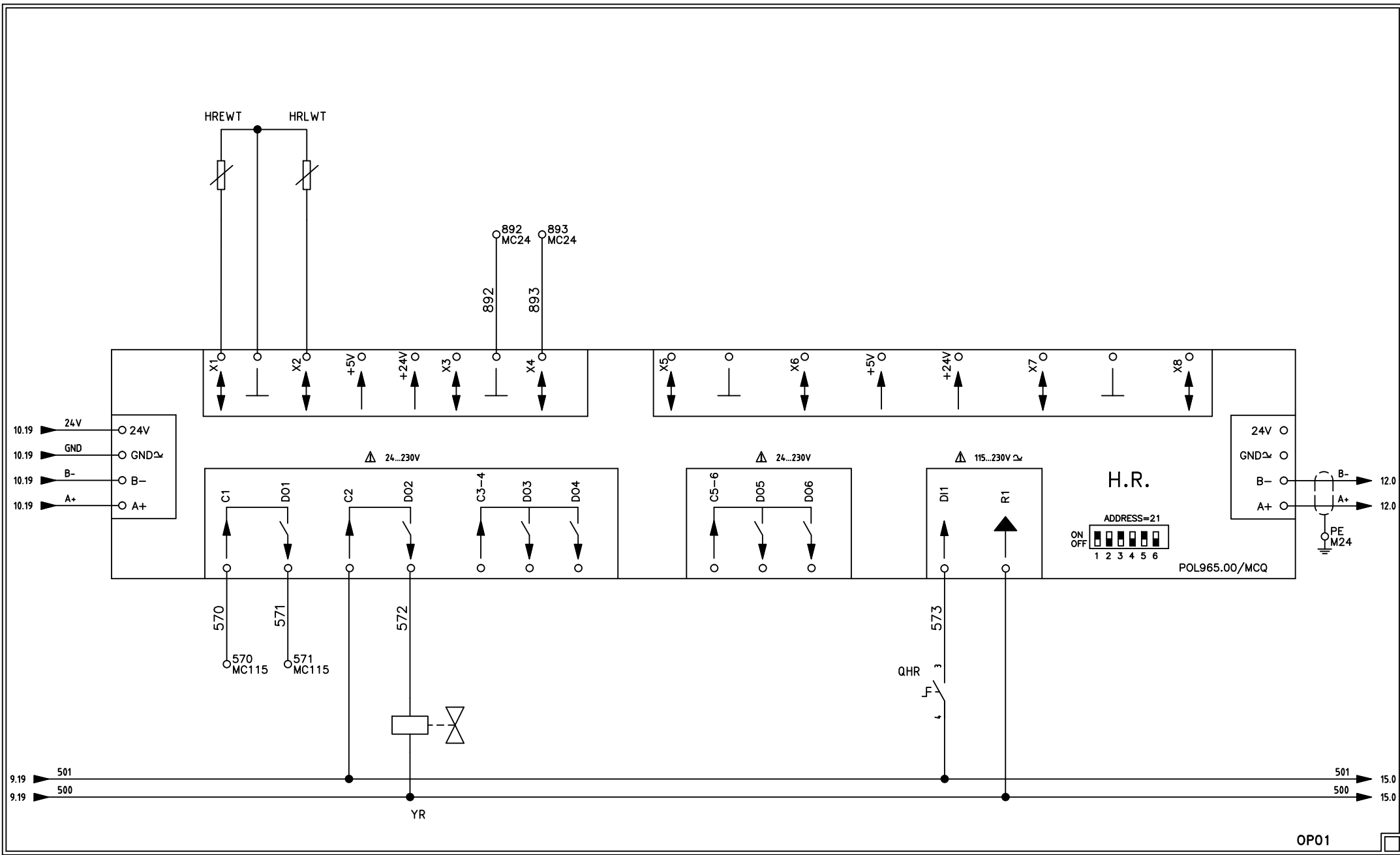


1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20



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

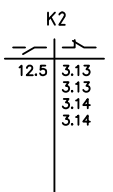
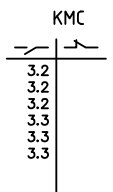
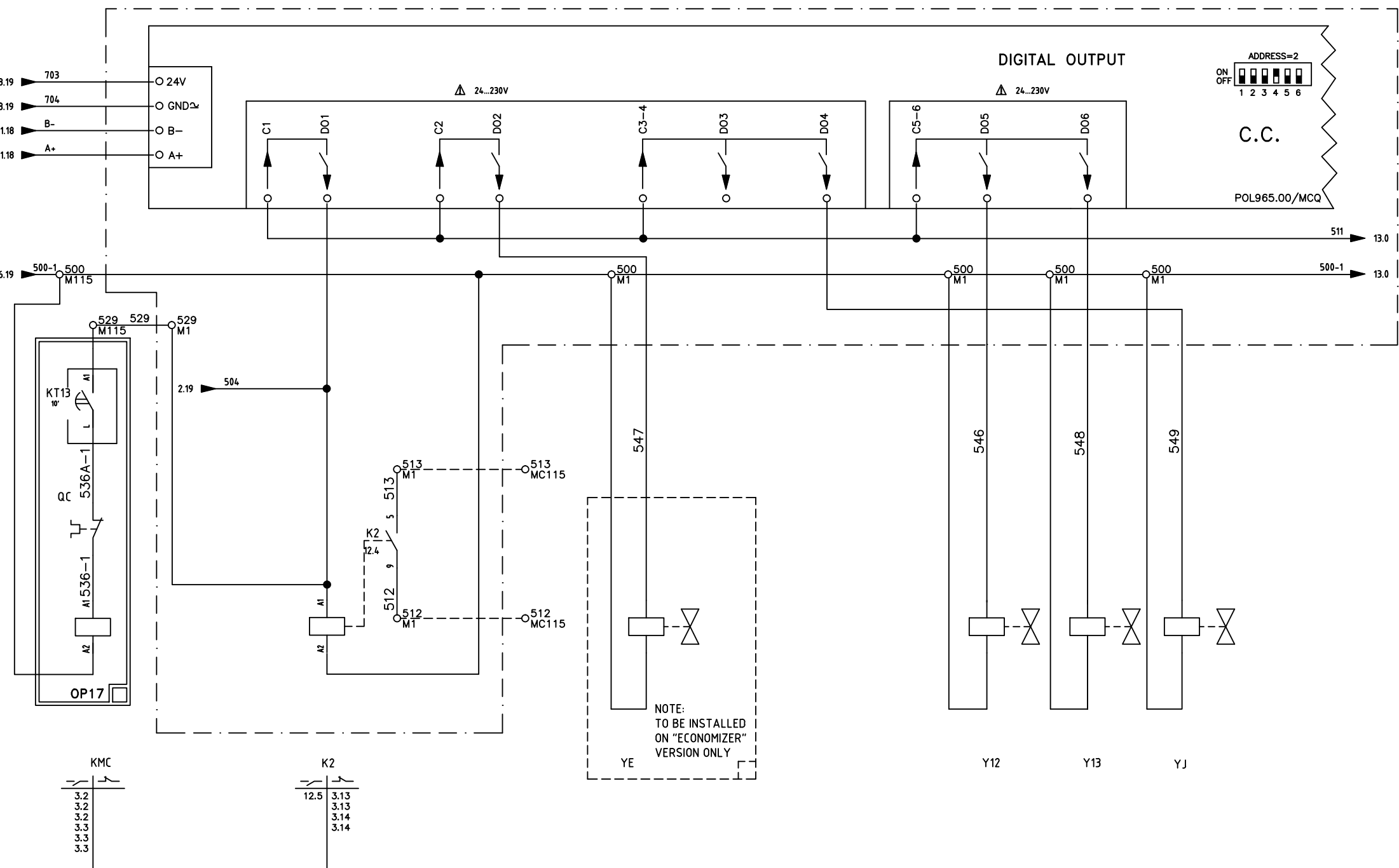
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

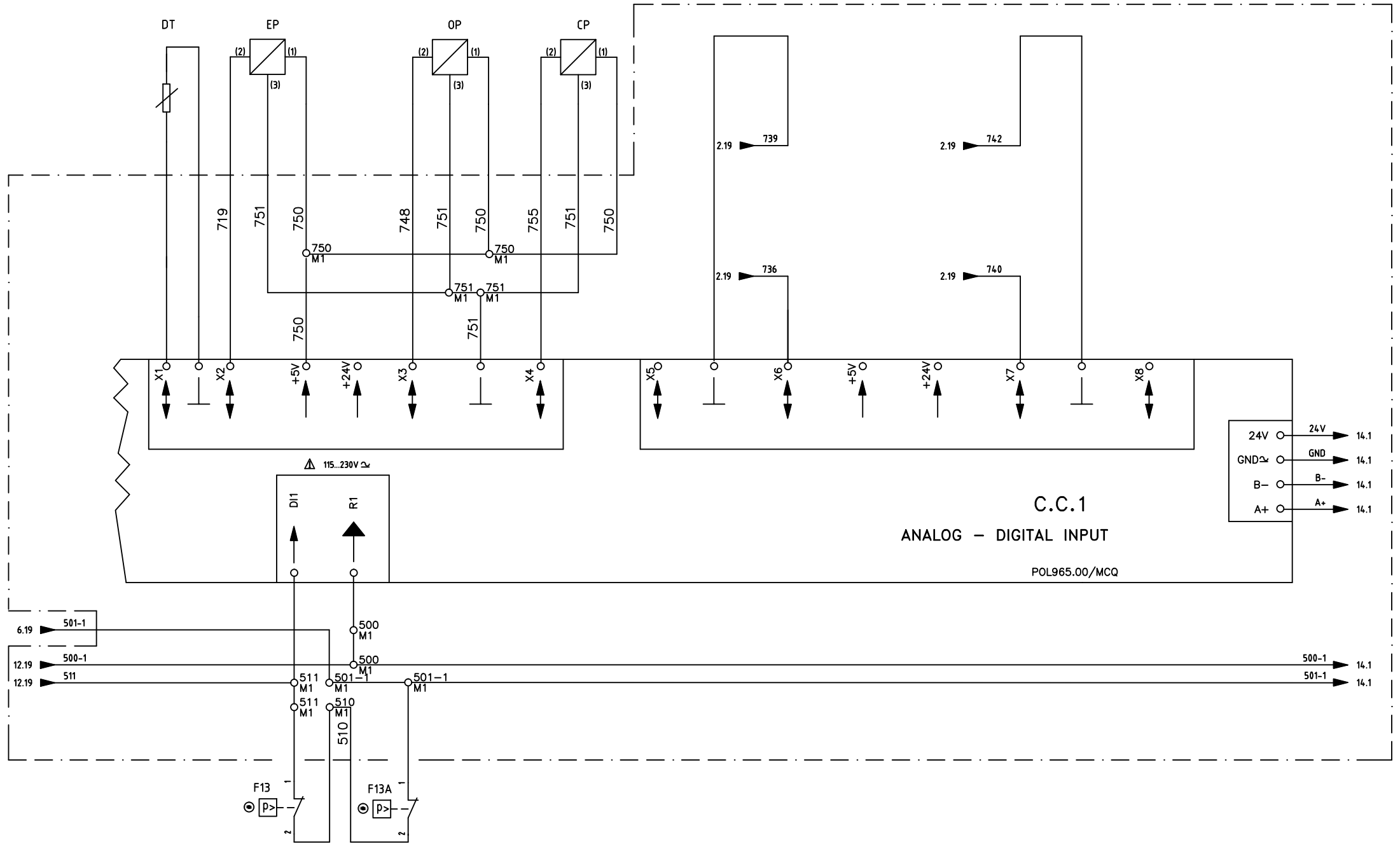


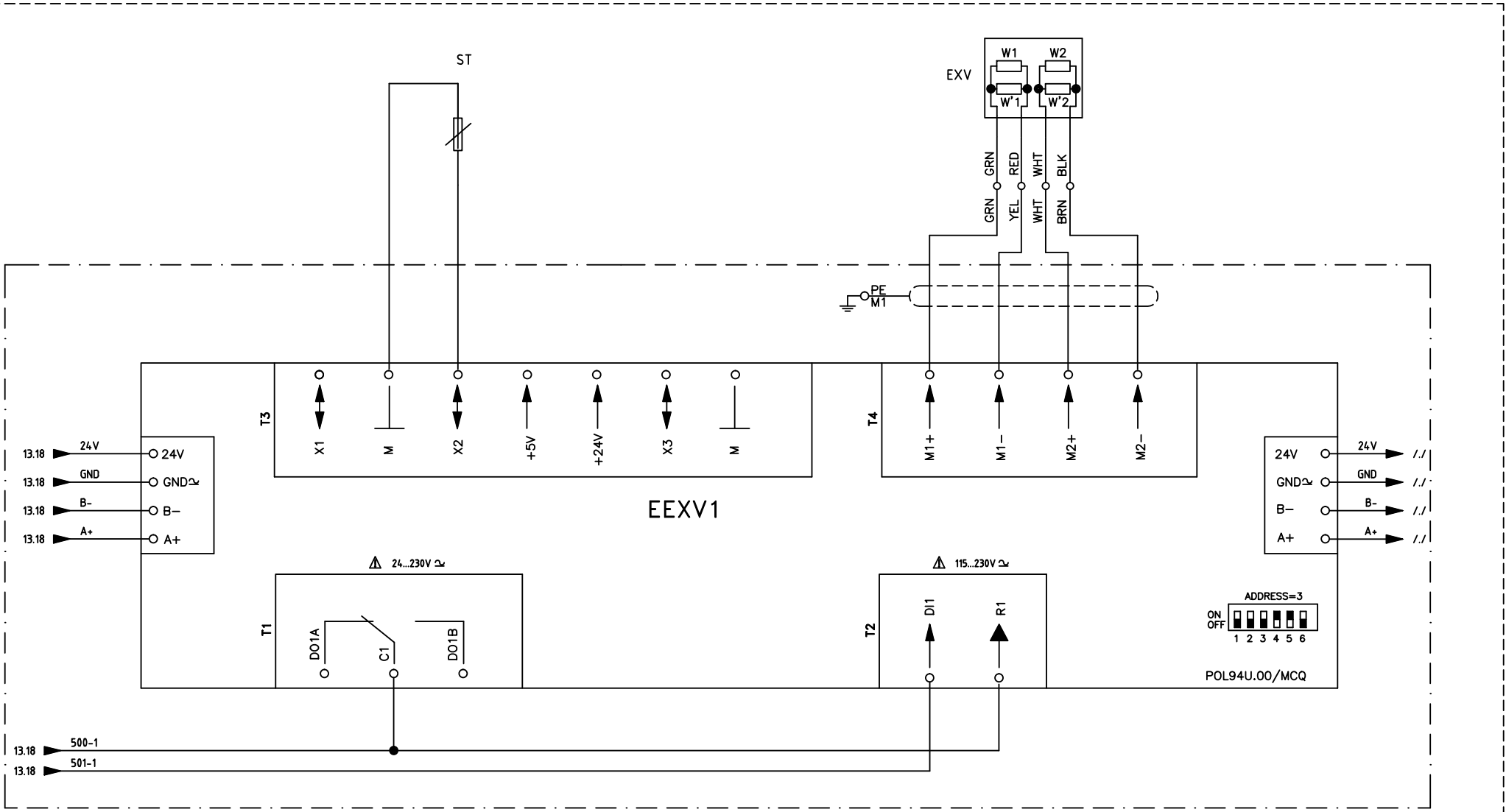
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

OP01

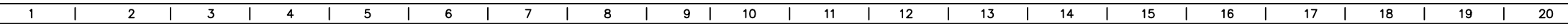
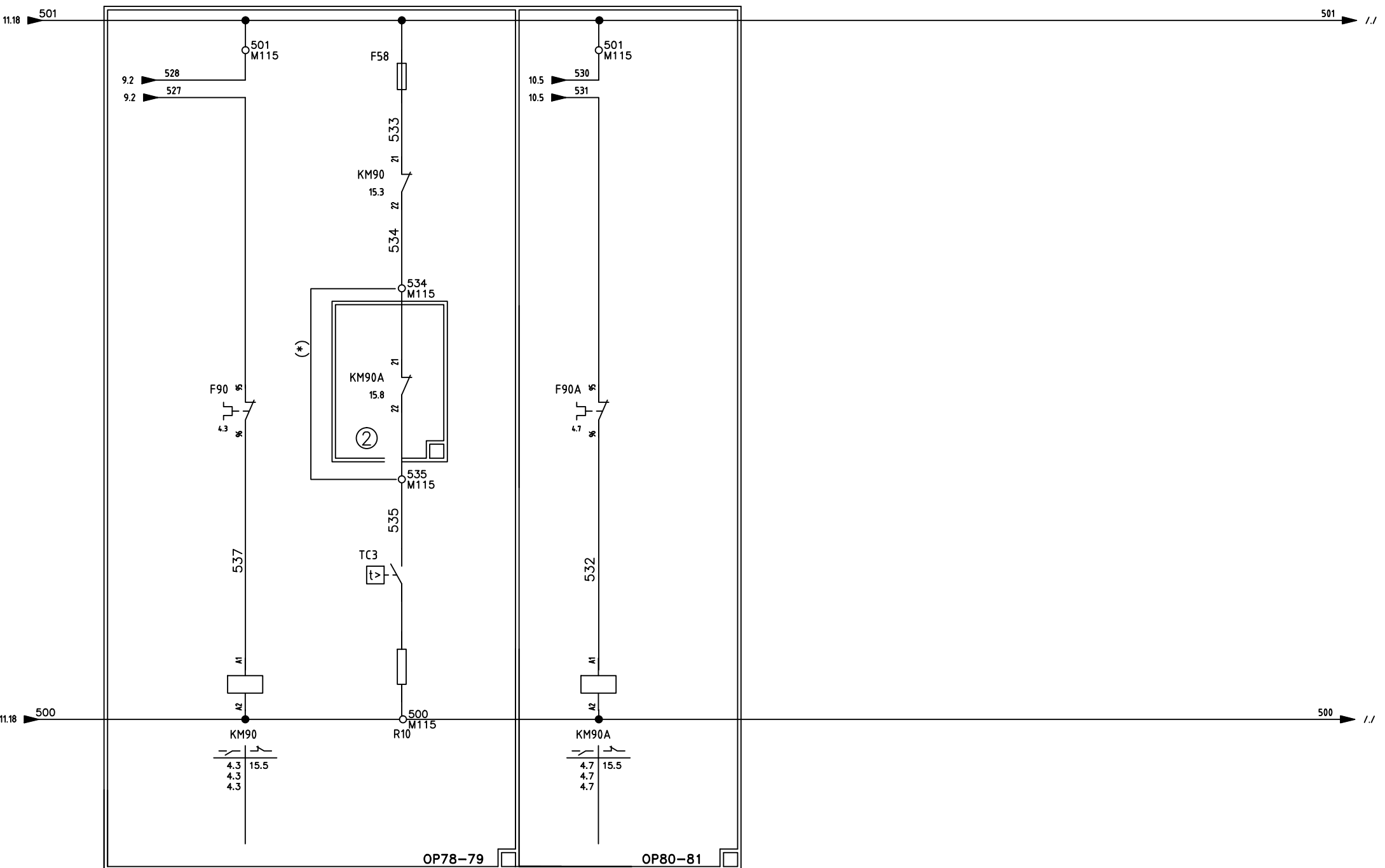
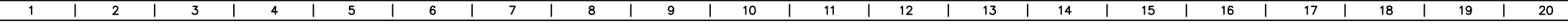
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

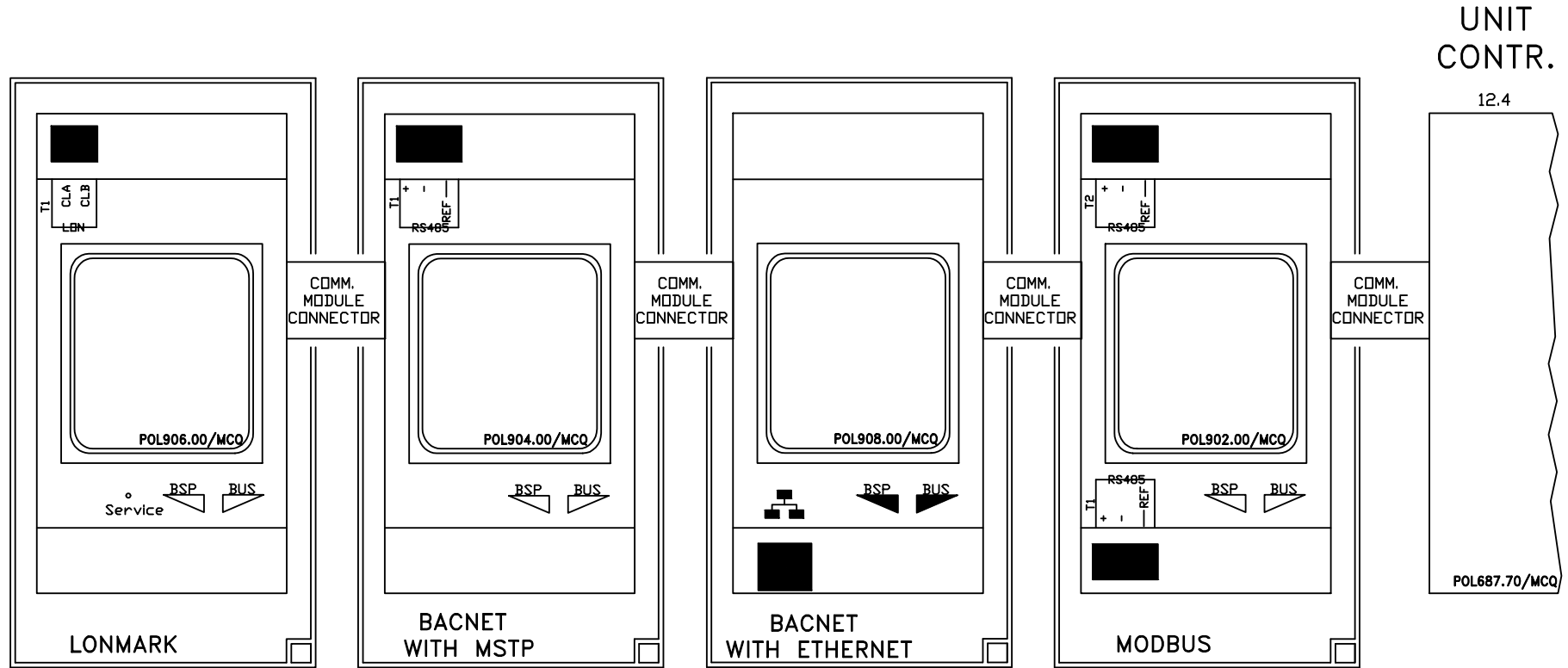






NOTE:
NOT TO BE INSTALLED ON "CU" VERSION





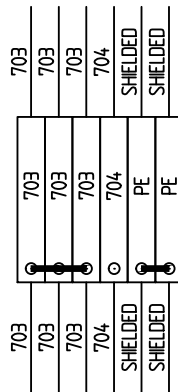
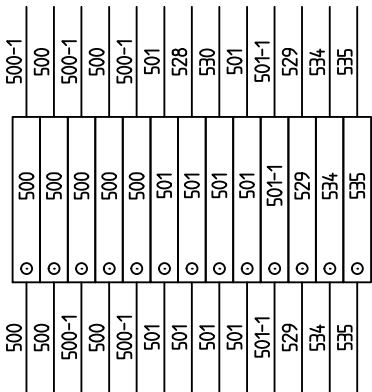
NOTES:

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.

		3B
		3A

		6.14
		6.15
		12.0
		15.5
		6.14
		6.15
		15.3
		15.8
		6.14
		6.14
		12.1
		15.5
		15.5

		6.1
		8.7
		8.9
		6.1
		10.18
		11.18



QG	M400	400V
QG	M400	400V

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

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

400V

115V

24V

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	Fusibile unipolare	6	1
F59-1	PROTECTION FUSE	6	1
F60	PROTECTION AUXILIARY CIRCUIT 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
FVFD1	FAN SPEED MODULATION CRC. 1	5	1
H.R.	HEAT RECOVERY CONTROL BOARD	11	1
K2	CONTACTOR	12	1
K16	FAN MOTOR CONTACTOR	9	1
KM90	FIRST PUMP CONTACTOR	15	1
KM90A	FIRST PUMP CONTACTOR	15	1
KM101	FAN MOTOR CONTACTOR	9	1
KM102	FAN MOTOR CONTACTOR	9	1
KM103	FAN MOTOR CONTACTOR	9	1

ITEM	DESCRIPTION	SHEET	Q.ty
KMC	POWER FACTOR CORRECTION CONTACTORS	12	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
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
OP42	LOW AMBIENT	5	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
Q101	FAN CIRCUIT BREAKER	5	1
Q102	FAN CIRCUIT BREAKER	5	1
Q103	FAN CIRCUIT BREAKER	5	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
SPN95	FORCED VENTILATION	6	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

ITEM	DESCRIPTION	SHEET	Q.ty
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
Y12	LOADER SOL. VALVE	12	1
Y13	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

SCO = Standard Compressor Fuse + Overcurrent					
ITEM	3118-R134a	3120-R134a	3121-R134a	3122-R134a	3123-R134a
	HSS3118	HSS3120	HSS3121	HSS3122	HSS3123
F1,F2,F3	100 A gG NH00	125 A gG NH00	125 A gG NH00	160 A gG NH00	200 A gG NH1
F5-1,2,3 Set (OP11)	49 A	58 A	65 A	74 A	88 A
F1,F2,F3 Set (OP95)	84 A	101 A	112 A	127 A	152 A

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

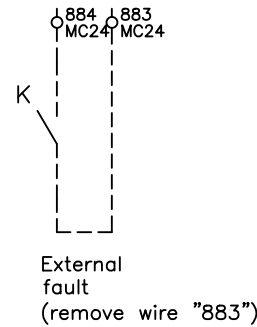
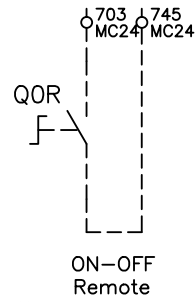
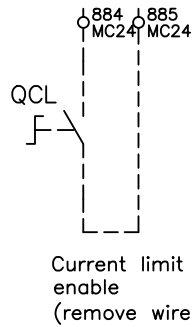
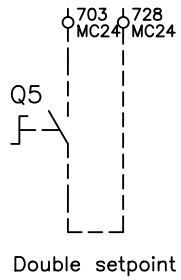
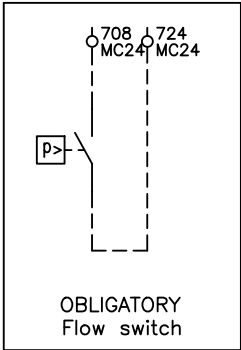
CF=Control fuses+size	
ITEM	
F0	2 A
Q12	4 A
F130	4 A
F130A	4 A
F59	2 A
F59A	2 A
F60	2 A

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
OP42	Speedtroll
OP78-79	One Centrifugal Pump
OP80-81	Two Centrifugal Pump
OP95	Compressor Circuit Breaker
SPN95	Forced Ventilatin

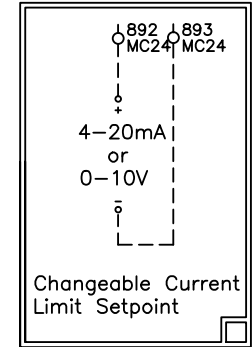
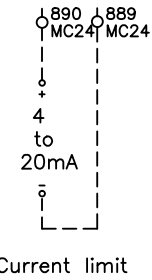
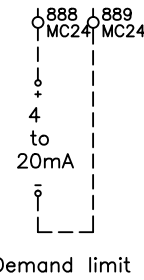
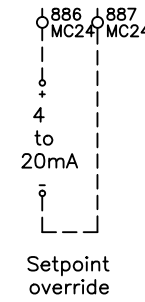
OP17 Power Factor Correction - Capacitor + Overcurrent					
ITEM	3118-R134a	3120-R134a	3121-R134a	3122-R134a	3123-R134a
	HSS3118	HSS3120	HSS3121	HSS3122	HSS3123
FC1,2,3	25 A gG E18	25 A gG E18	25 A gG E18	25 A gG E18	35 A gG E18
QC1,2,3	16 A	16 A	16 A	16 A	25 A

SF=Standard fan fuses + overload				STD =Standard			
FAN TYPE	OVERLOAD	1 FAN	2 FAN	FUSES	n° FANS		
					2	3	4
MCDK800-6P	Q101÷Q103	4,0 A	8,0 A	F100	10 A	16 A	25 A
MCDK800-8P	Q101÷Q103	2,8 A	5,6 A	F100	10 A	16 A	16 A

Digital input terminals



Analog input terminals



Digital output terminals

