



DESCRIPTION:

FRONT PAGE

REFEREMENT:

MASTER

DISTR.:

DATE:

N°: 180418

REVISIONE / REVISIONS: 15

SHEETS: 31 PAG. : 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Sheet	DESCRIPTION																		
1	FRONT PAGE																		
2	OPTIONAL EQUIPMENTS																		
3	POWER COMPRESSOR 1-2																		
4	POWER COMPRESSOR 3 - COMPRESSOR CRANKCASE HEATER 1-2-3																		
5	KIT CAPACITOR																		
6	UNIT CONTROL CIRCUIT POWER SUPPLY																		
7	ANALOG INPUTS-OUTPUT BOARD																		
8	DIGITAL INPUTS BOARD																		
9	DIGITAL OUTPUTS BOARD																		
10	EXTENSION CONTROL REMOTE FANS 1-2 (ME UNITS ONLY)																		
11	EXTENSION CONTROL REMOTE FANS 3 (ME UNITS ONLY)																		
12	EXPANSION CONTROL COMPRESSOR 1																		
13	EXPANSION CONTROL COMPRESSOR 1																		
14	EEXV COMPRESSOR 1																		
15	EXPANSION CONTROL COMPRESSOR 2																		
16	EXPANSION CONTROL COMPRESSOR 2																		
17	EEXV COMPRESSOR 2																		
18	EXPANSION CONTROL COMPRESSOR 3																		
19	EXPANSION CONTROL COMPRESSOR 3																		
20	EEXV COMPRESSOR 3																		
21	HEAT PUMP BOARD (OPTIONAL)																		
22	COMMUNICATION MODULES (OPTIONAL)																		
23	MORSETTIERA M400 - M115																		
24	MORSETTIERA M24 - M5																		
25	MORSETTIERA MC115 - MC24																		
26	LEGENDA																		
27	LEGENDA																		
28	LEGENDA																		
29	LEGENDA																		
30	NOTE																		
31	FIELD WIRING CONNECTION																		
15	03/07/13	Added Ground Fault Protection"OP102" to pag 2							S.G.	M.P.									
14	09/04/13	Added alarm contact on "OP95" to pag 3-4							M.P.	M.P.									
13	08/01/13	Revised pag. 8-13-14-16-17							S.G.	M.P.									
12	16/01/12	Added option OP95 to pag.3-4							S.G.	M.P.									
11	06/10/11	Revised pages 2-20-30							S.G.	M.P.									
10	01/09/11	Revised pages 30-31							S.G.	M.P.									
9	26/07/11	Revised pag. 31							M.P.	M.P.									
8	14/07/11	Added remote fans steps board for ME units only to pag. 10-11							M.P.	M.P.									
7	11/07/11	Revised addres H.P.C. board to pag. 19							M.P.	M.P.									
6	17/06/11	Revised pag. 29							M.P.	M.P.									
5	24/05/11	Revised pages 28-29							M.P.	M.P.									
4	08-04-2011	Added third circuit for WHS units							A.T.	M.P.									
3	22-02-2011	Changed "TA1-TA3" option connection to pag. 2							M.P.	M.P.									
2	11-02-2011	Added "SPN87" option to pag. 15							M.P.	M.P.									
1	10-12-2010	Revised as ECO n° 2941							M.P.	M.P.									
REV.	DATE	HISTORY REVISIONS							DWG.	CHECK.	PASSED.								

WIRING DIAGRAM

EWWD 120J ÷ 560J-SS

EWLD 110J ÷ 530J-SS

EWWD 170G ÷ 650G-SS/XS

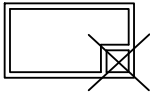
EWWD 340I ÷ C12I-SS/XS

EWLD 320I ÷ 950I-SS

EWVQ 380B ÷ C21B-SS/XS

- MicroTech® III -

OPTIONAL EQUIPMENTS

EQUIPMENT INSTALLED

----- FIELD WIRING CONNECTIONS

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

⊙ MANUAL RESET

DIAGRAM N.: 180418

DATE: 12/10/10

REV: 15



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CHECK.

PASSED.



DESCRIPTION:

OPTIONAL EQUIPMENTS

REFEREMENT:

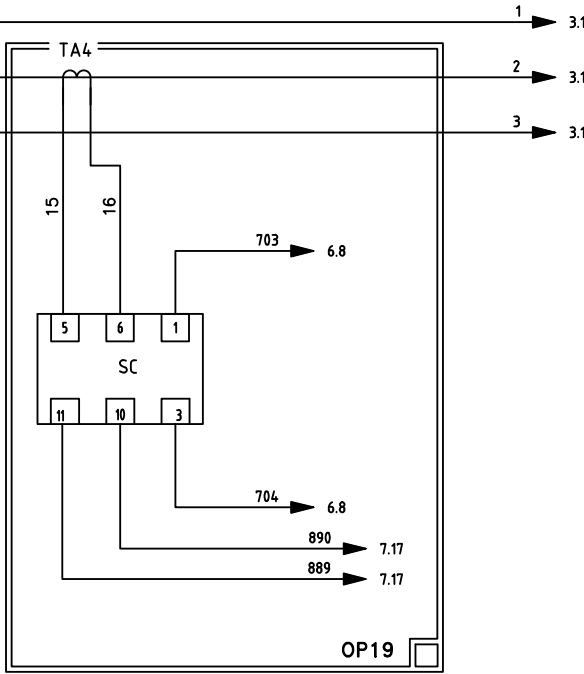
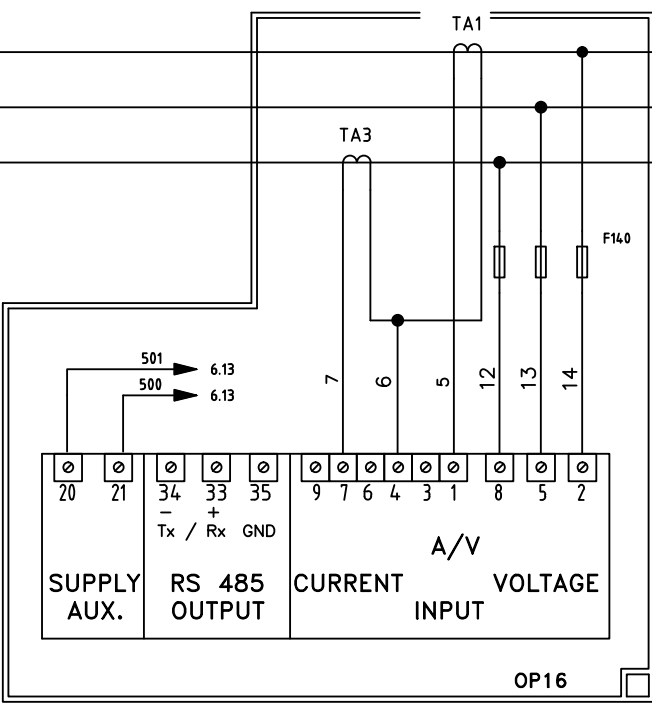
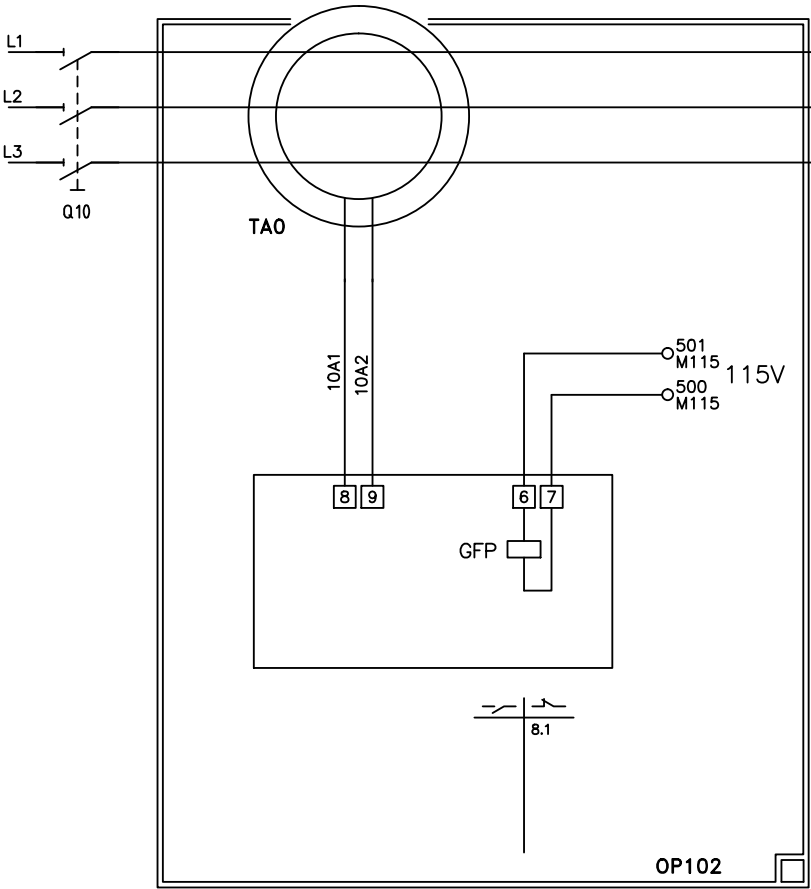
MASTER

N°: 180418

REVISIONE / REVISIONS: 15

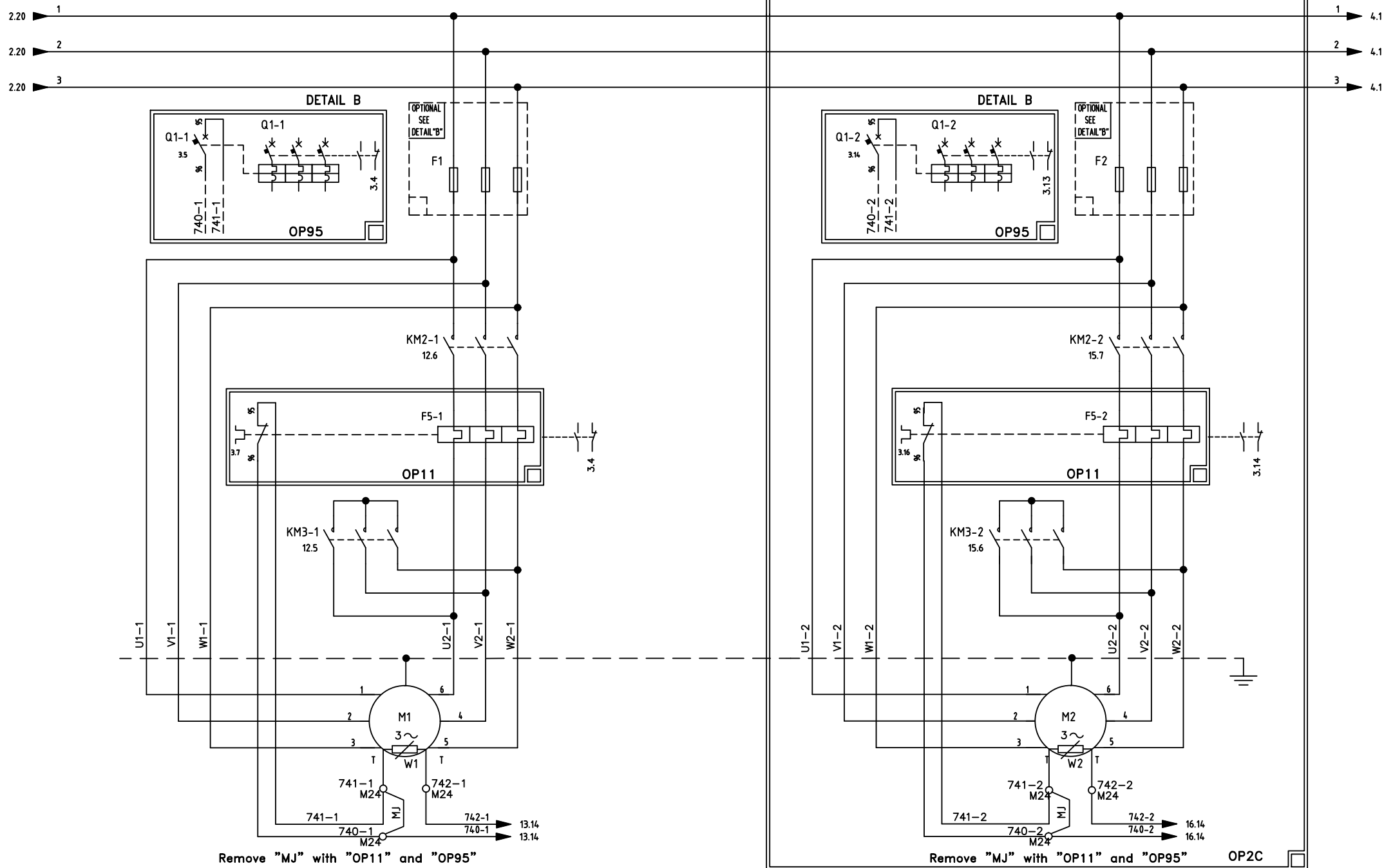
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1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

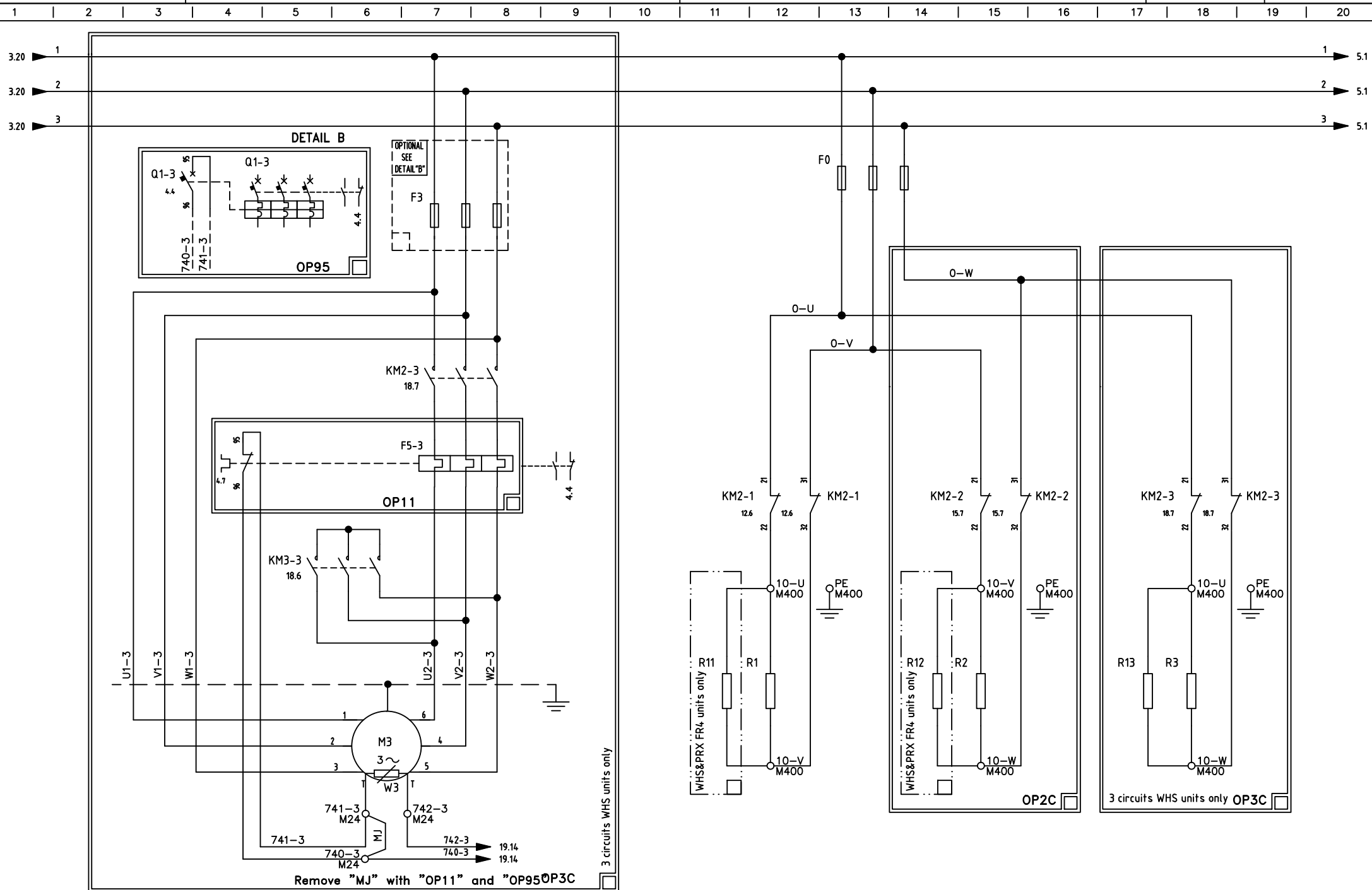


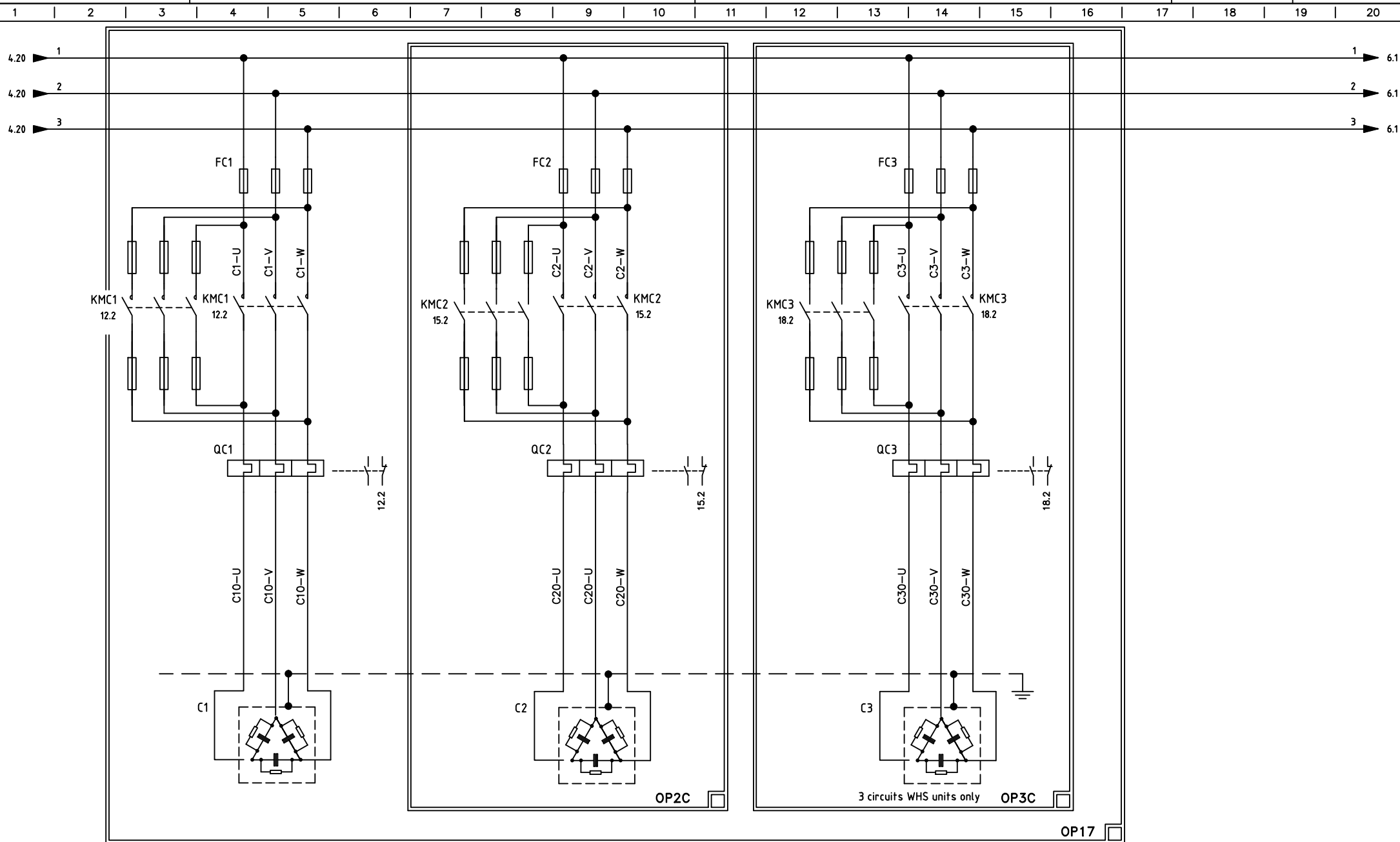
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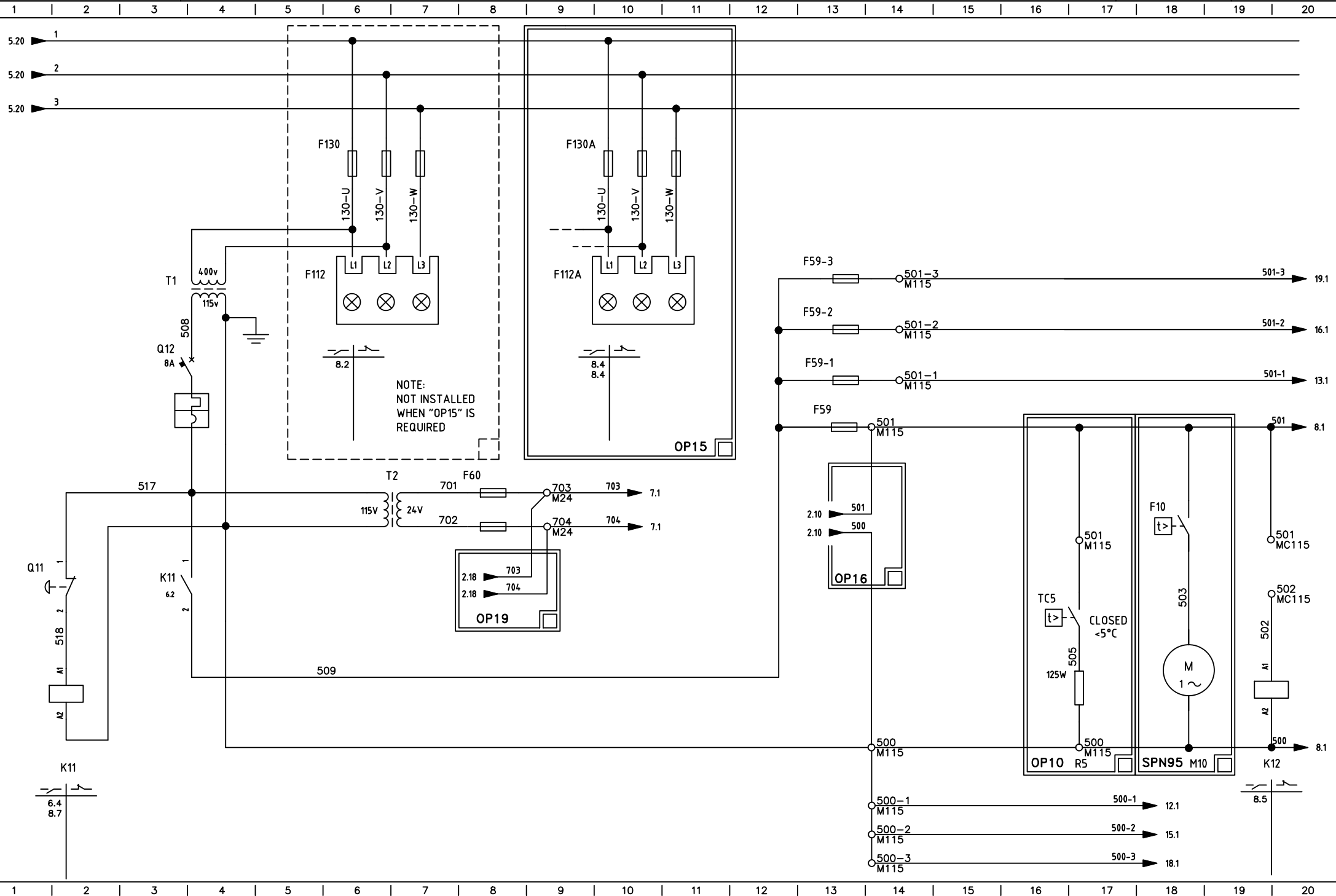
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DESCRIPTION:

ANALOG INPUTS-OUTPUT BOARD

REFEREMENT:

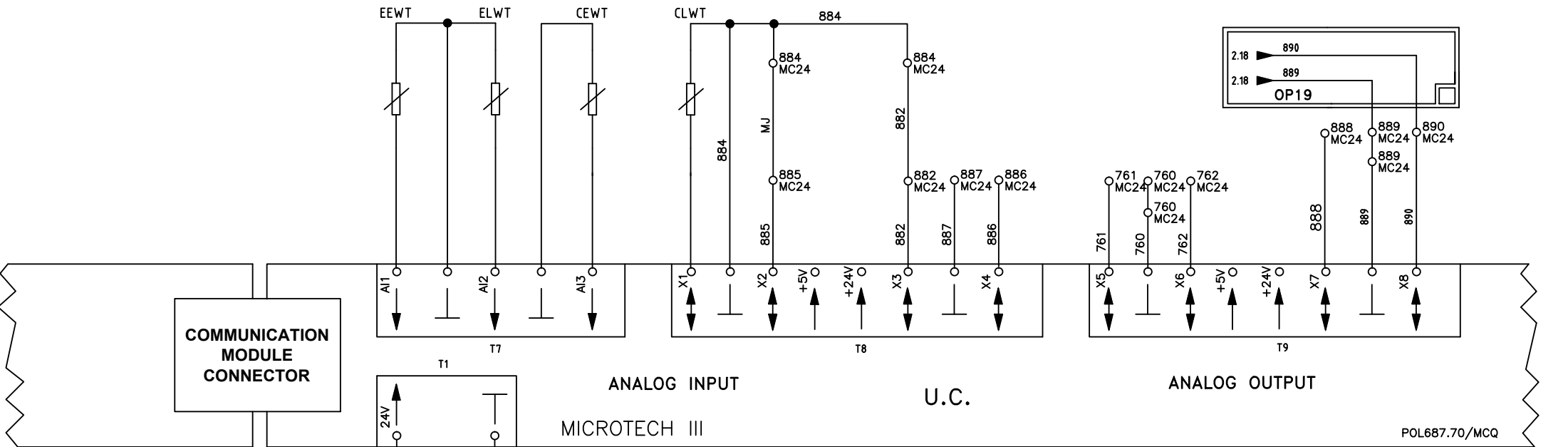
MASTER

N°: 180418

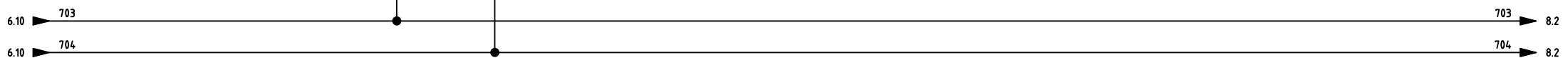
REVISIONE / REVISIONS: 15

SHEETS: 31 PAG. : 7

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 22)



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



DESCRIPTION:

DIGITAL INPUTS BOARD

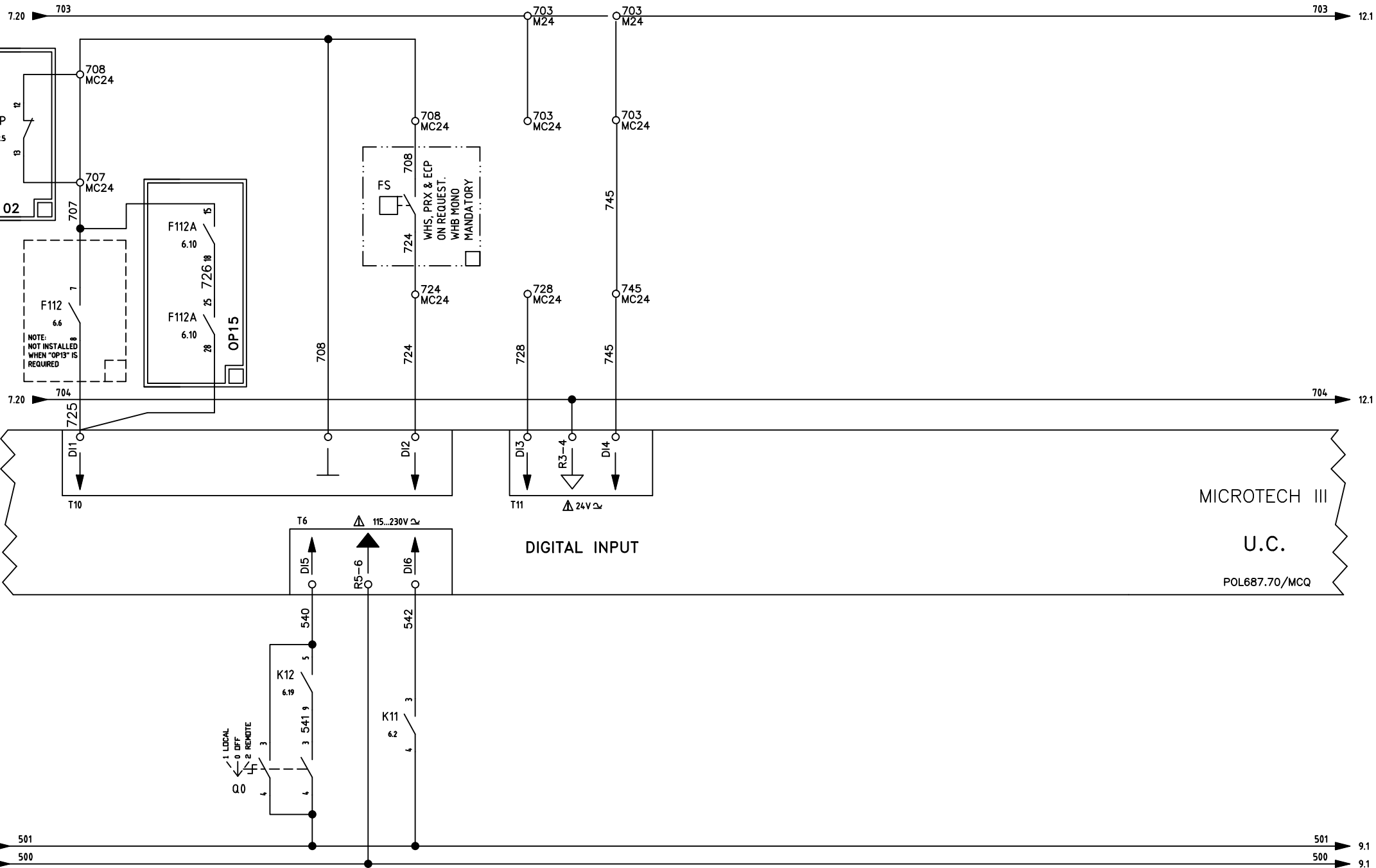
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N°: 180418

REVISIONE / REVISIONS: 15

SHEETS: 31 PAG. : 8





DESCRIPTION:

DIGITAL OUTPUTS BOARD

REFEREMENT:

MASTER

N°: 180418

REVISIONE / REVISIONS: 15

SHEETS: 31 PAG. : 9

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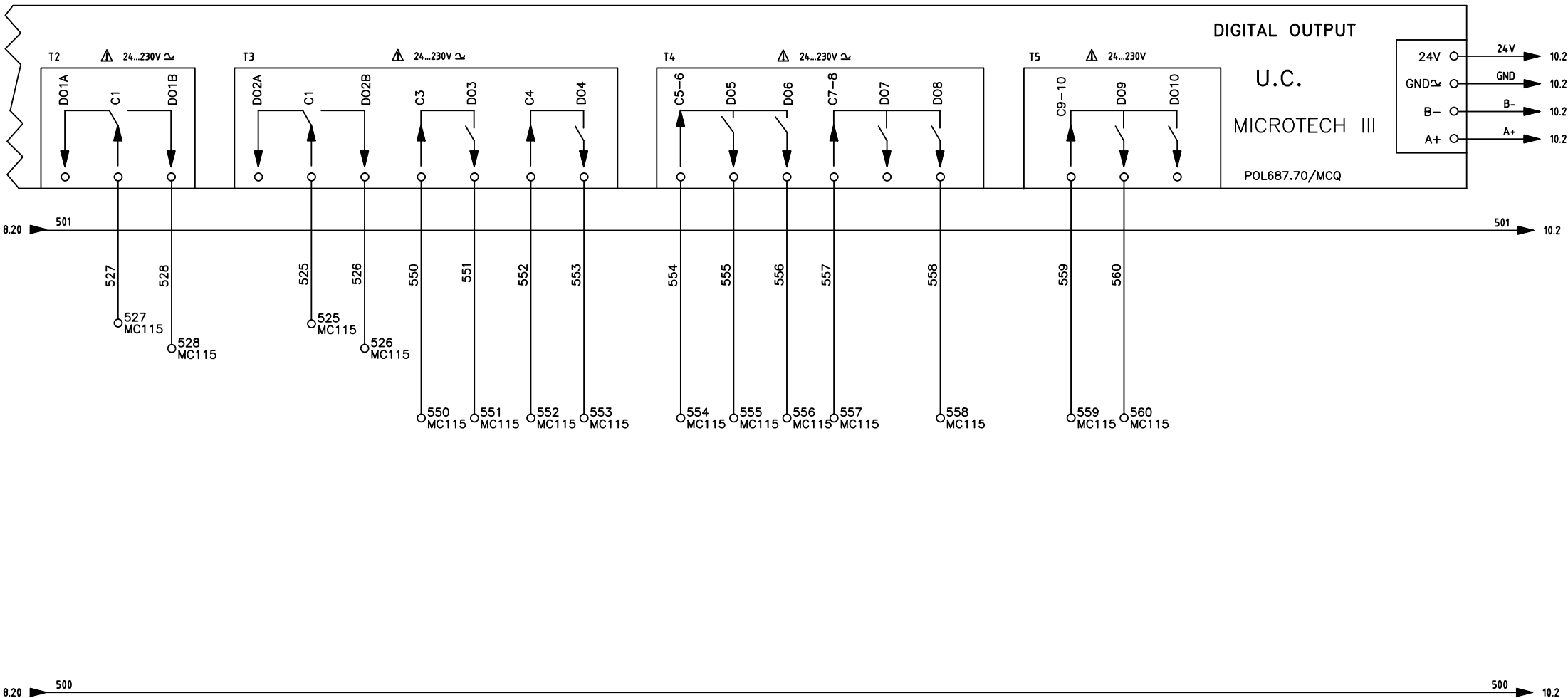
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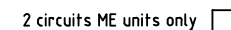
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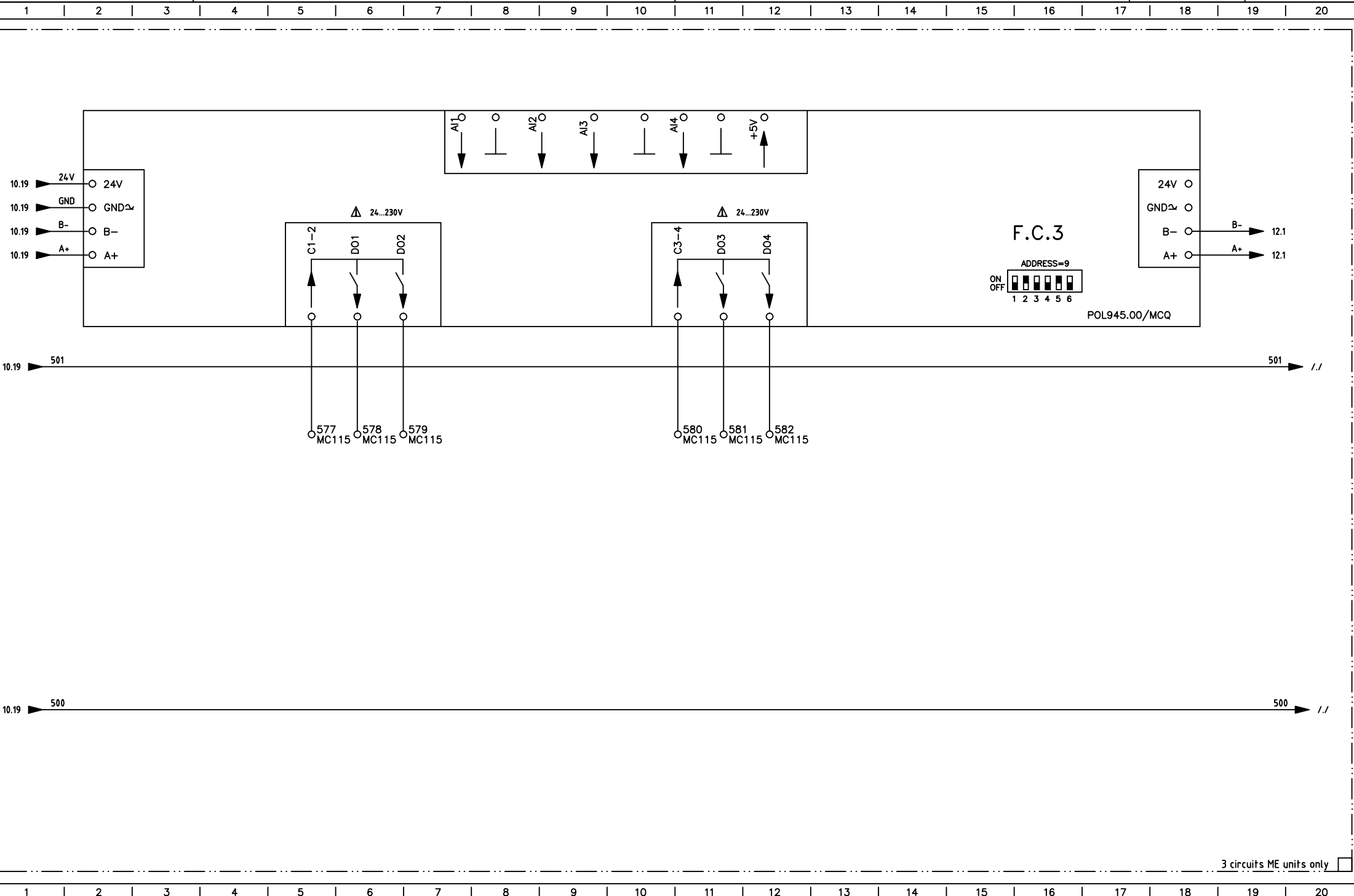




DESCRIPTION:
EXTENSION CONTROL REMOTE FANS 3 (ME UNITS ONLY)

REFEREMENT:
MASTER

N°: 180418
REVISIONE / REVISIONS: 15
SHEETS: 31 PAG. : 11





DESCRIPTION:

EXPANSION CONTROL COMPRESSOR 1

REFEREMENT:

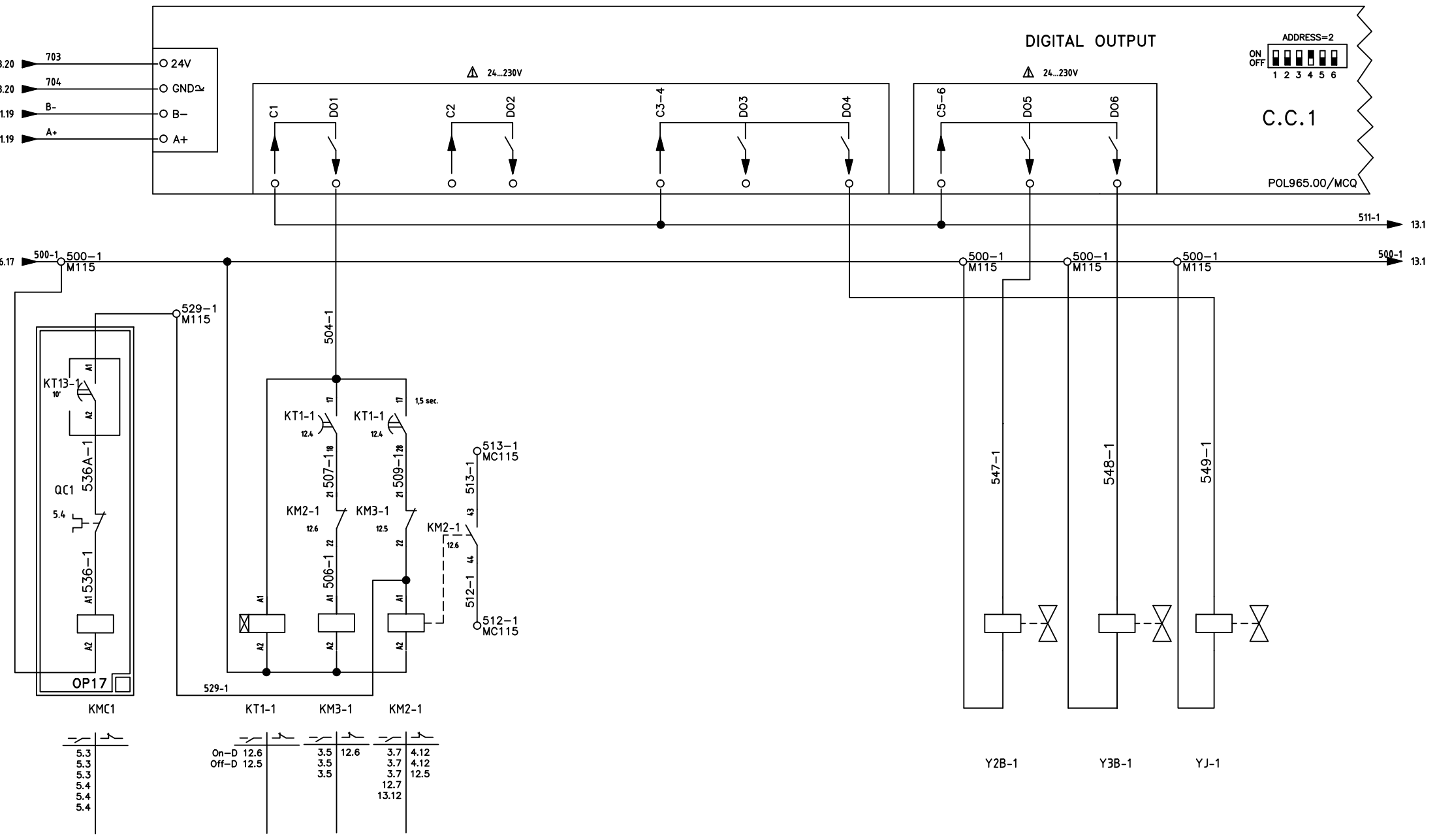
MASTER

N°: 180418

REVISIONE / REVISIONS: 15

SHEETS: 31 PAG. : 12

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



DESCRIPTION:

EXPANSION CONTROL COMPRESSOR 1

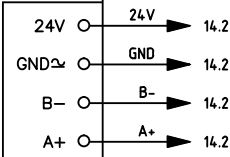
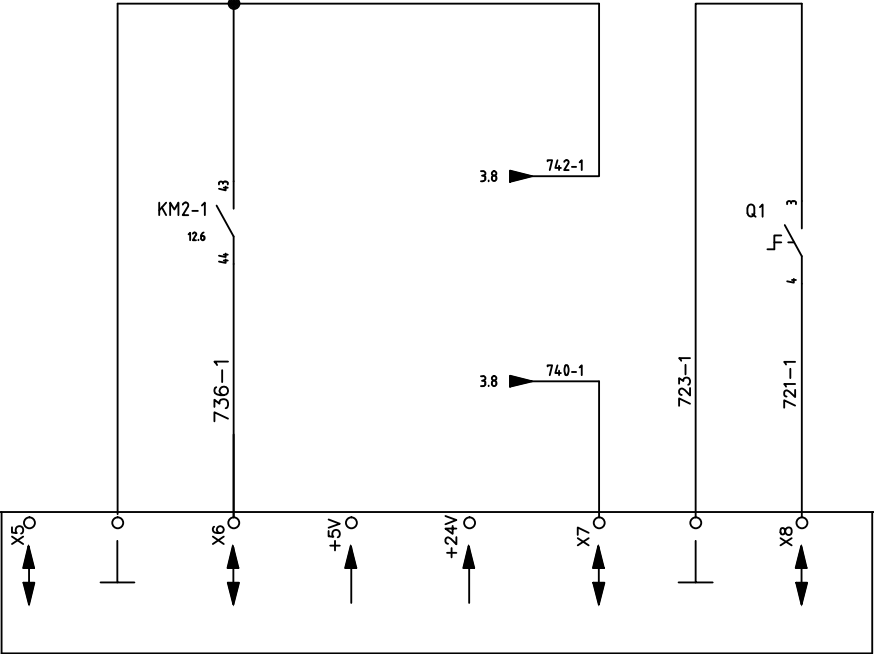
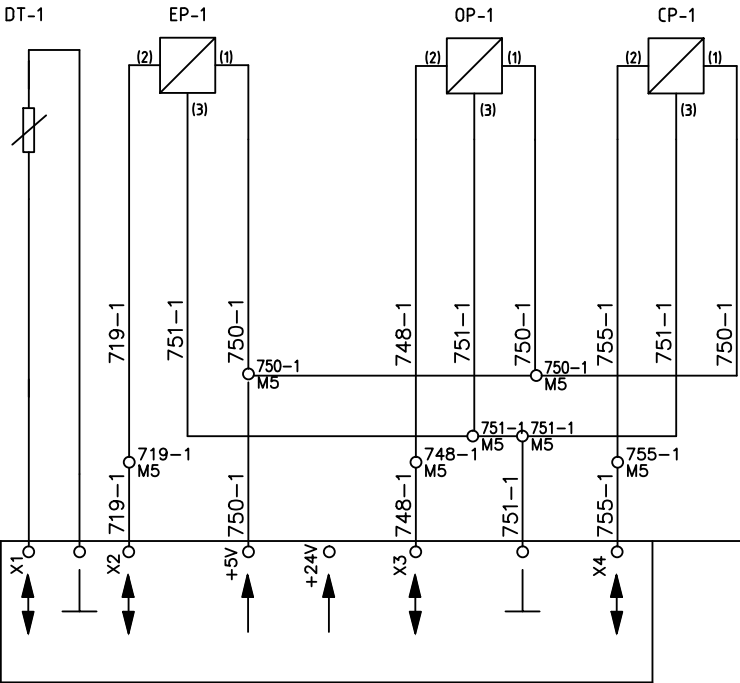
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N°: 180418

REVISIONE / REVISIONS: 15

SHEETS: 31 PAG. : 13



C.C.1

ANALOG - DIGITAL INPUT

POL965.00/MCQ





DESCRIPTION:

EEXV COMPRESSOR 1

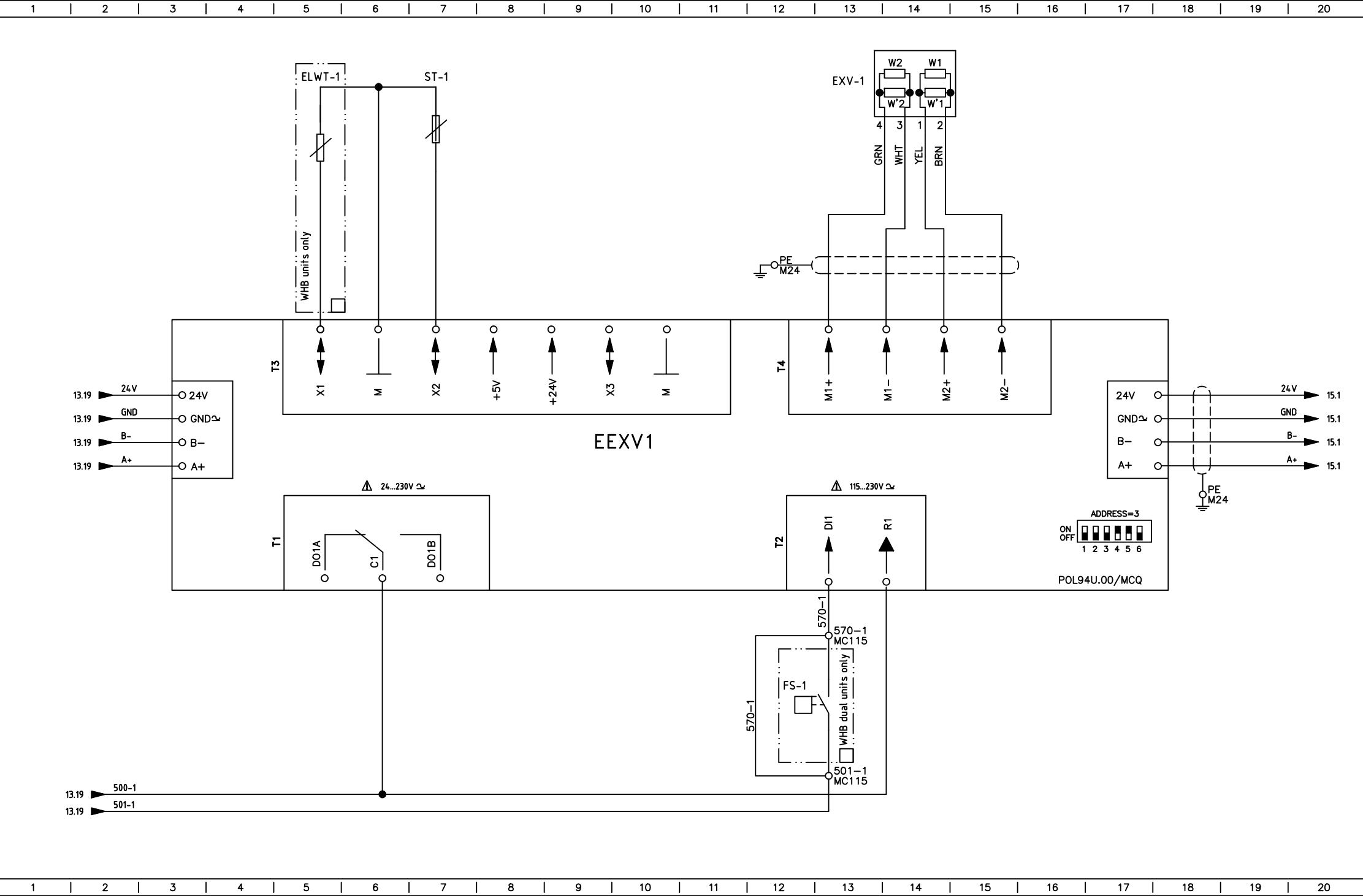
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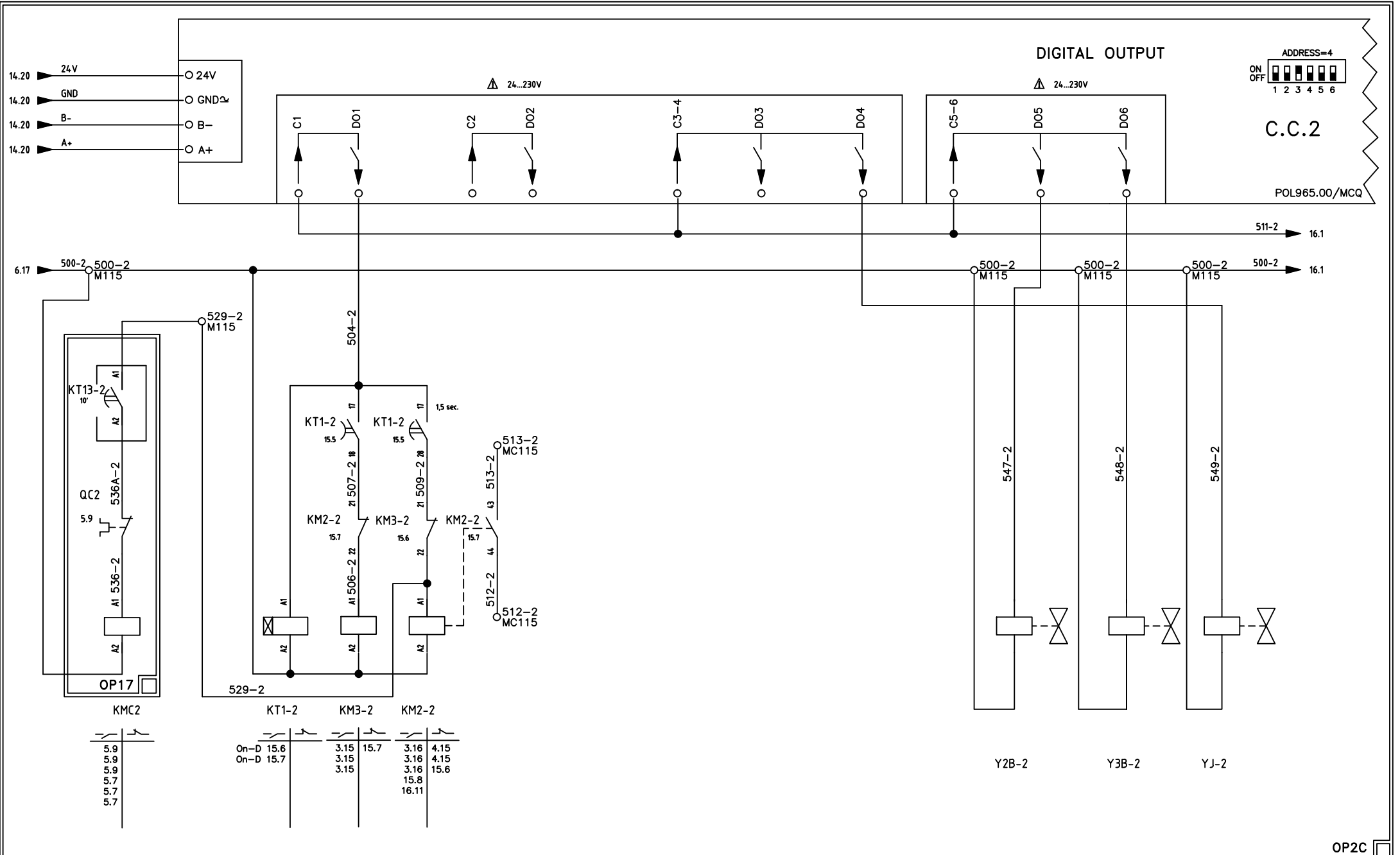
MASTER

N°: 180418

REVISIONE / REVISIONS: 15

SHEETS: 31 PAG. : 14







DESCRIPTION:

EXPANSION CONTROL COMPRESSOR 2

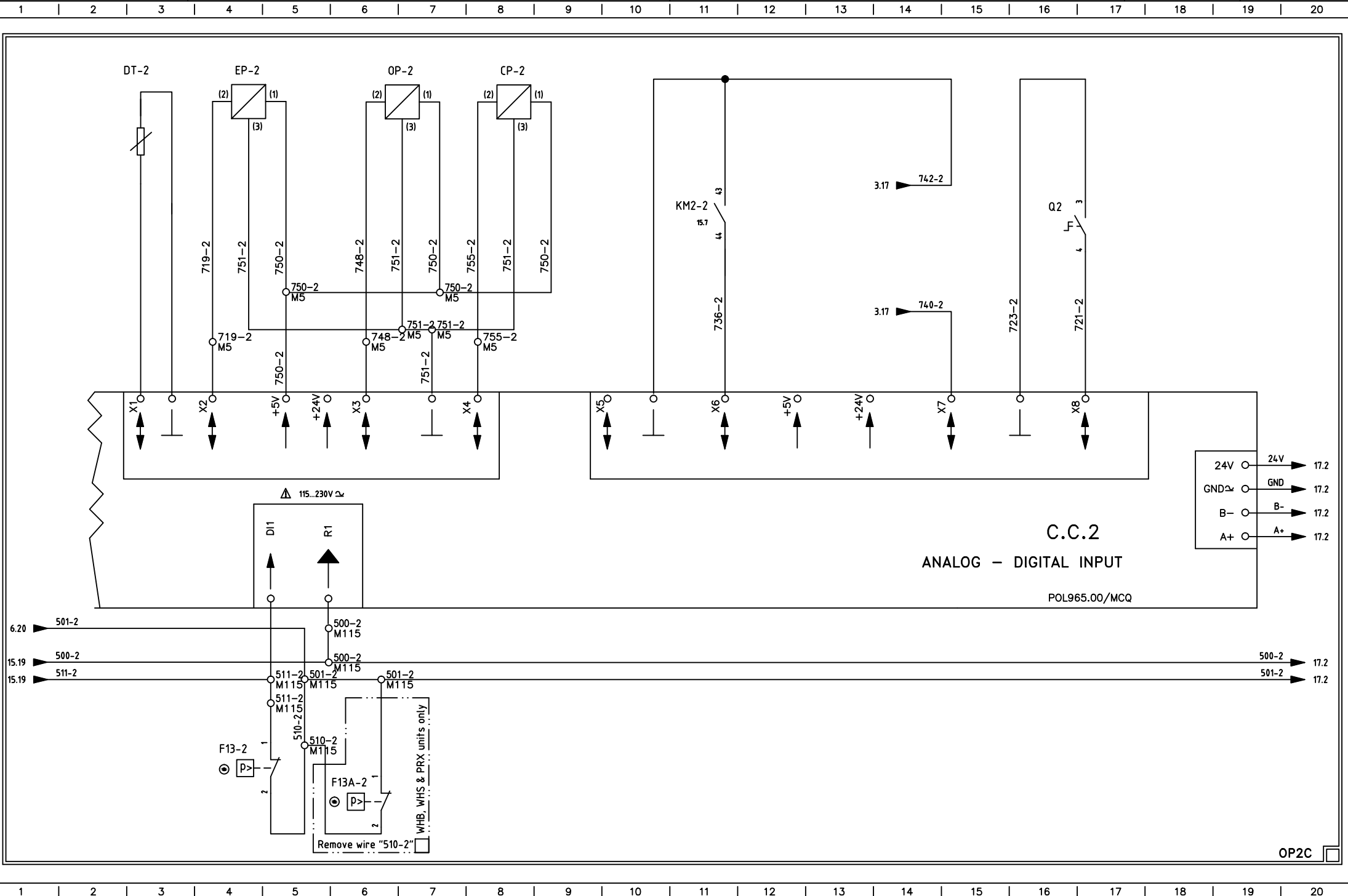
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MASTER

N°: 180418

REVISIONE / REVISIONS: 15

SHEETS: 31 PAG. : 16





DESCRIPTION:

EEXV COMPRESSOR 2

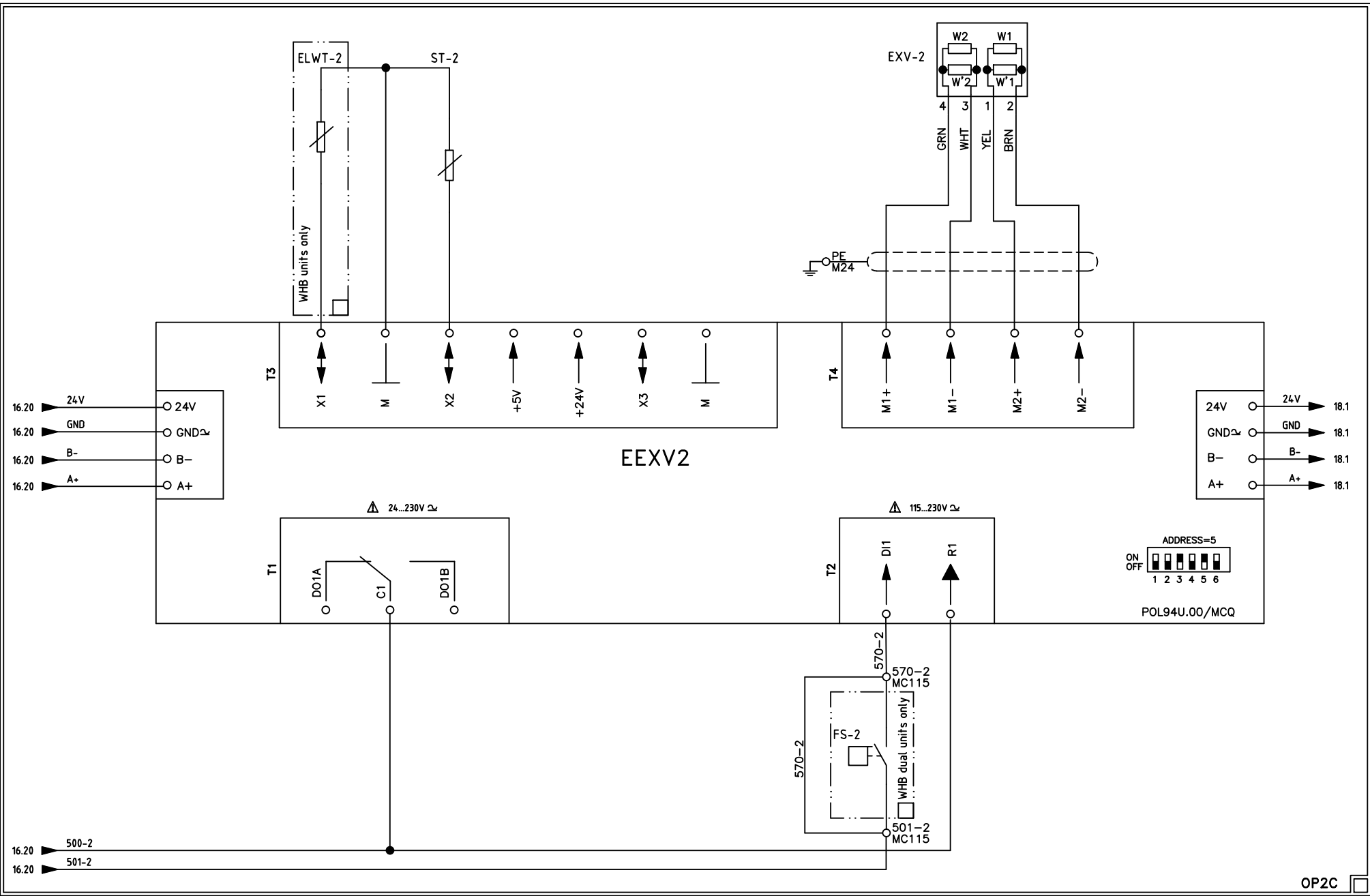
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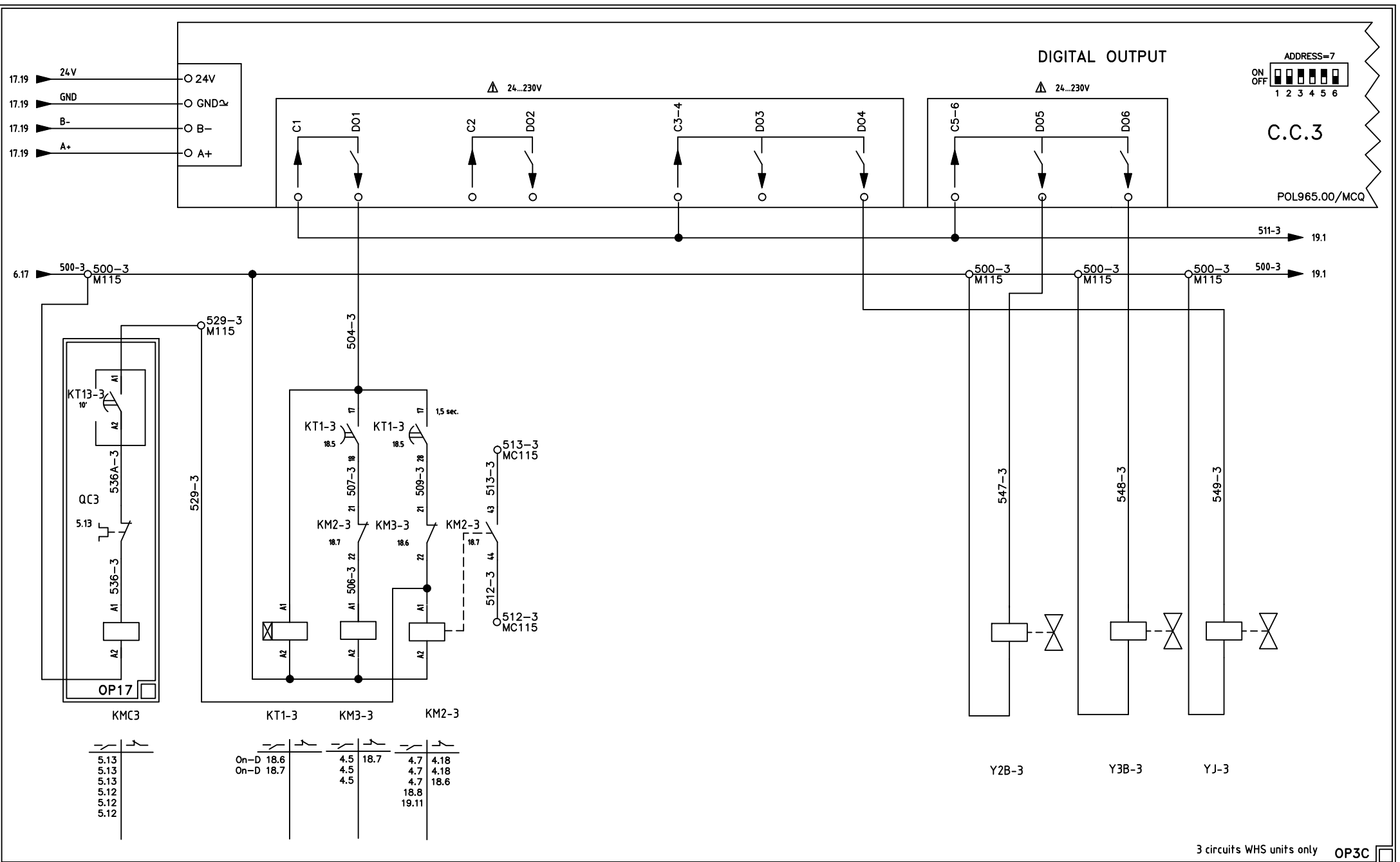
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N°: 180418

REVISIONE / REVISIONS: 15

SHEETS: 31 PAG. : 17





The diagram illustrates the internal wiring of the C.C.3 ANALOG - DIGITAL INPUT unit. Key components and connections include:

- Terminal Blocks:** X1 through X8 are located along the top edge. X1, X2, X3, and X4 are connected to a 115...230V AC source. X5, X6, X7, and X8 are connected to a 24V supply.
- Power Supply:** The unit is powered by a 24V supply, with connections for +5V and +24V. The +5V supply is connected to the base of the input transistors (719-3, 751-3, 750-3, 748-3, 755-3).
- Input Transistors:** The input transistors are labeled DT-3, EP-3, OP-3, and CP-3. They are connected to the +5V supply and the input terminals X1 through X4.
- Relays and Switches:** The unit contains several relays and switches, including KM2-3, Q3, D1, R1, F13-3, and F13A-3.
- Output Terminals:** The unit has four output terminals: 24V, GND, B-, and A+. These are connected to the internal wiring and the power supply.
- Wiring Details:** The diagram shows the internal wiring of the unit, including the connections between the input transistors, the power supply, and the output terminals. It also shows the connections to the 115...230V AC source and the 24V supply.



DESCRIPTION:

EEXV COMPRESSOR 3

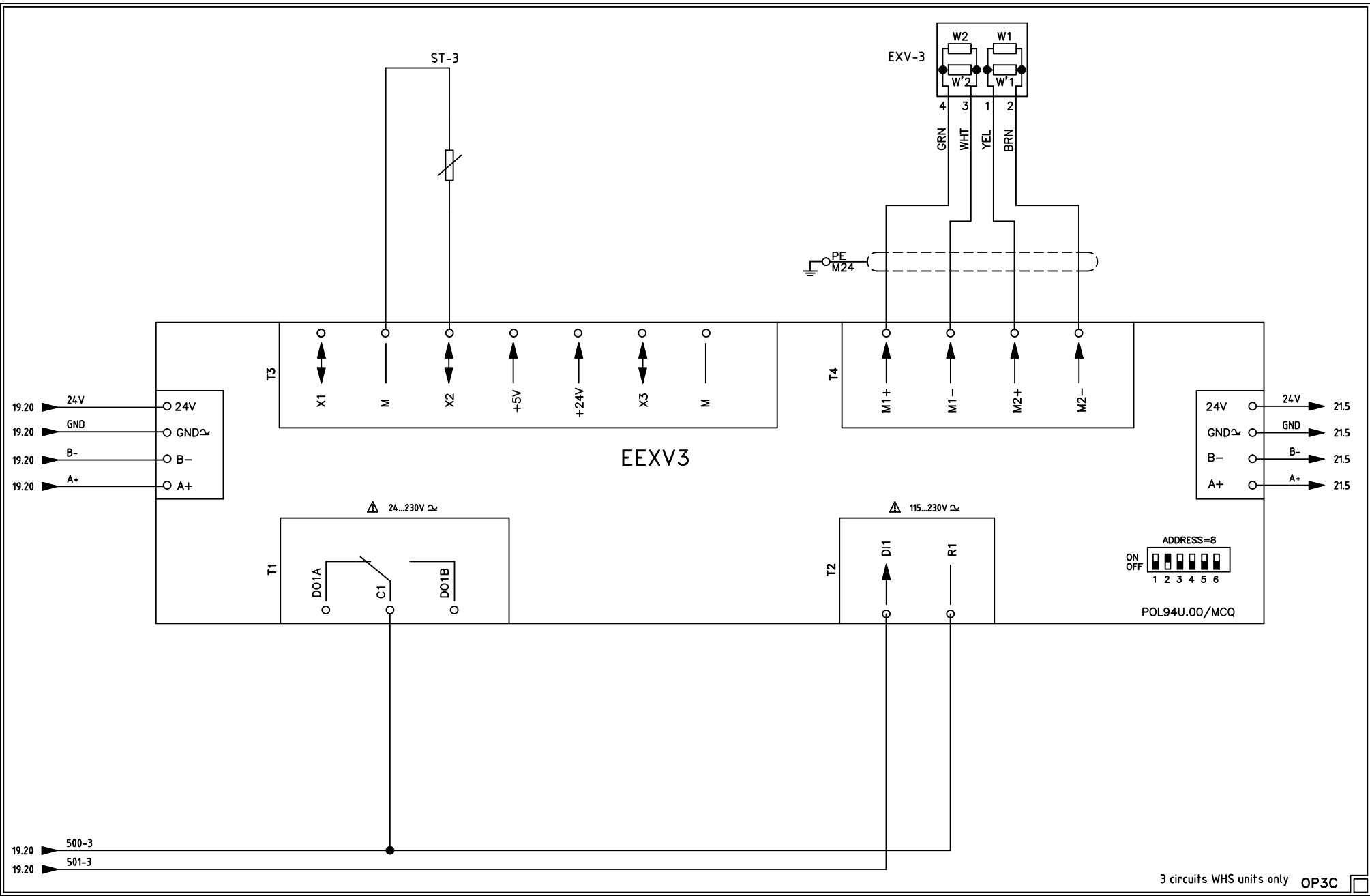
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MASTER

N°: 180418

REVISIONE / REVISIONS: 15

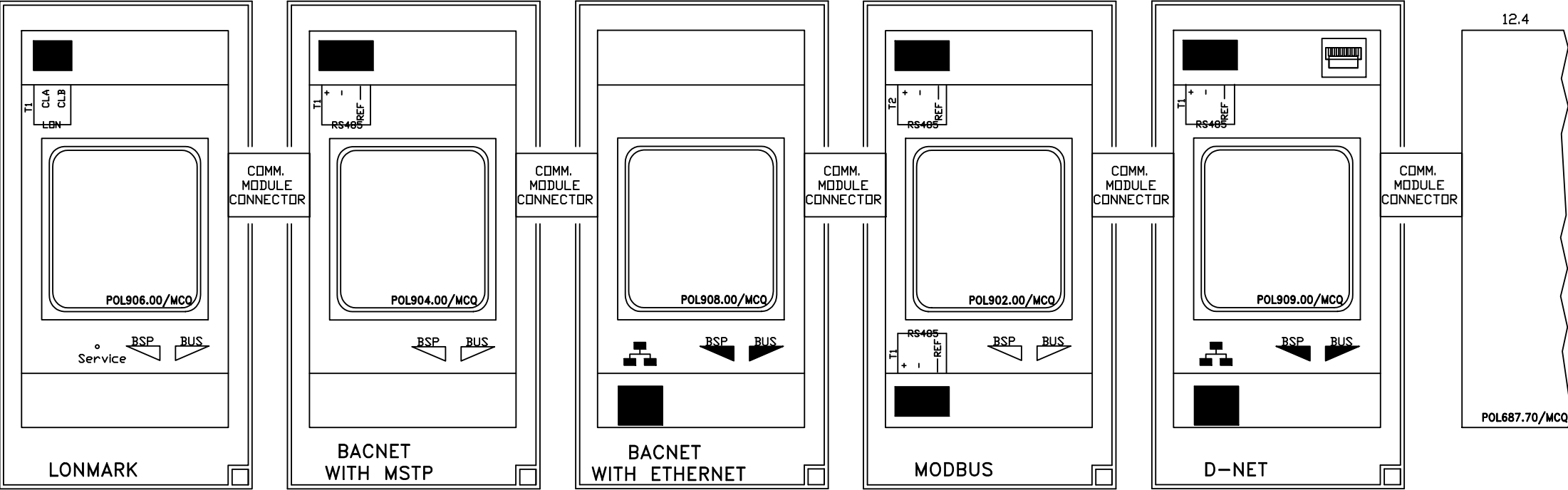
SHEETS: 31 PAG. : 20



UNIT
CONTR.

12.4

POL687.70/MCQ



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.



DESCRIPTION:

MORSETTIERA M400 - M115

REFEREMENT:

MASTER

N°: 180418

REVISIONE / REVISIONS: 15

SHEETS: 31 PAG. : 23

QG - M400

QG	-	M400	400V	PE	PE	4.18
QG	-	M400	400V	PE	PE	4.16
QG	-	M400	400V	PE	PE	4.19
QG	-	M400	400V	10-U	10-U	4.12
QG	-	M400	400V	10-V	10-V	4.12
QG	-	M400	400V	10-V	10-V	4.15
QG	-	M400	400V	10-V	10-V	4.18
QG	-	M400	400V	10-W	10-W	4.15
QG	-	M400	400V	10-W	10-W	4.18

QG - M115

QG	-	M115	115V	500	500	6.15
QG	-	M115	115V	500	500	6.14
QG	-	M115	115V	500-1	500-1	6.14
QG	-	M115	115V	500-1	500-1	11.6
QG	-	M115	115V	500-1	500-1	11.6
QG	-	M115	115V	500-1	500-1	10.17
QG	-	M115	115V	500-1	500-1	10.15
QG	-	M115	115V	500-1	500-1	10.14
QG	-	M115	115V	500-1	500-1	10.1
QG	-	M115	115V	500-2	500-2	14.6
QG	-	M115	115V	500-2	500-2	14.6
QG	-	M115	115V	500-2	500-2	13.16
QG	-	M115	115V	500-2	500-2	13.14
QG	-	M115	115V	500-2	500-2	13.17
QG	-	M115	115V	500-2	500-2	6.14
QG	-	M115	115V	500-2	500-2	13.2
QG	-	M115	115V	500-3	500-3	6.14
QG	-	M115	115V	500-3	500-3	16.2
QG	-	M115	115V	500-3	500-3	16.14
QG	-	M115	115V	500-3	500-3	16.16
QG	-	M115	115V	500-3	500-3	16.17
QG	-	M115	115V	500-3	500-3	17.6
QG	-	M115	115V	500-3	500-3	17.6
QG	-	M115	115V	501	501	6.15
QG	-	M115	115V	501	501	6.14
QG	-	M115	115V	501-1	501-1	6.14
QG	-	M115	115V	501-1	501-1	11.6
QG	-	M115	115V	501-1	501-1	11.5
QG	-	M115	115V	501-2	501-2	14.5
QG	-	M115	115V	501-2	501-2	6.14
QG	-	M115	115V	501-2	501-2	14.6
QG	-	M115	115V	501-3	501-3	6.14
QG	-	M115	115V	501-3	501-3	17.5
QG	-	M115	115V	501-3	501-3	17.6
QG	-	M115	115V	510-1	510-1	11.5
QG	-	M115	115V	510-2	510-2	11.5
QG	-	M115	115V	510-3	510-3	14.5
QG	-	M115	115V	510-3	510-3	17.5
QG	-	M115	115V	511-1	511-1	11.5
QG	-	M115	115V	511-1	511-1	11.5
QG	-	M115	115V	511-2	511-2	14.5
QG	-	M115	115V	511-2	511-2	14.5
QG	-	M115	115V	511-3	511-3	17.5
QG	-	M115	115V	511-3	511-3	17.5
QG	-	M115	115V	529-1	529-1	10.3
QG	-	M115	115V	529-2	529-2	13.4
QG	-	M115	115V	529-3	529-3	16.4



DESCRIPTION:

MORSETTIERA M24 - M5

REFEREMENT:

MASTER

N°: 180418

REVISIONE / REVISIONS: 15

SHEETS: 31 PAG. : 24

QG - M24

QG	-	M24	24V	SHIELDED	○	PE	SHIELDED	1218
QG	-	M24	24V	SHIELDED	●	PE	SHIELDED	1212
QG	-	M24	24V	SHIELDED	●	PE	SHIELDED	1512
QG	-	M24	24V	SHIELDED	●	PE	SHIELDED	1812
QG	-	M24	24V	703	●	703	703	69
QG	-	M24	24V	703	●	703	703	810
QG	-	M24	24V	703	●	703	703	88
QG	-	M24	24V	704	○	704	704	69
QG	-	M24	24V	740-1	○	740-1	740-1	36
QG	-	M24	24V	740-2	○	740-2	740-2	315
QG	-	M24	24V	740-3	○	740-3	740-3	46
QG	-	M24	24V	741-1	○	741-1	741-1	36
QG	-	M24	24V	741-2	○	741-1	741-2	315
QG	-	M24	24V	741-2	●	741-2	741-2	46
QG	-	M24	24V	742-1	●	741-3	742-1	37
QG	-	M24	24V	742-2	○	742-1	742-2	316
QG	-	M24	24V	742-2	○	742-2	742-3	47
QG	-	M24	24V	764	○	764	764	198
QG	-	M24	-	765	○	765	765	198

QG - M5

QG	-	M5	5V	719-1	○	719-1	719-1	114
QG	-	M5	5V	719-2	○	719-2	719-2	144
QG	-	M5	5V	719-3	○	719-3	719-3	174
QG	-	M5	5V	748-1	○	748-1	748-1	116
QG	-	M5	5V	748-2	○	748-2	748-2	146
QG	-	M5	5V	748-3	○	748-3	748-3	176
QG	-	M5	5V	750-1	○	748-3	750-1	118
QG	-	M5	5V	750-1	●	750-1	750-1	115
QG	-	M5	5V	750-2	●	750-1	750-2	145
QG	-	M5	5V	750-2	●	750-2	750-2	147
QG	-	M5	5V	750-3	●	750-3	750-3	177
QG	-	M5	5V	750-3	●	750-3	750-3	175
QG	-	M5	5V	751-1	●	750-3	751-1	117
QG	-	M5	5V	751-1	●	751-1	751-1	117
QG	-	M5	5V	751-2	●	751-1	751-2	147
QG	-	M5	5V	751-2	●	751-2	751-2	147
QG	-	M5	5V	751-3	●	751-2	751-3	177
QG	-	M5	5V	751-3	●	751-3	751-3	177
QG	-	M5	5V	755-1	○	751-3	755-1	118
QG	-	M5	5V	755-2	○	755-1	755-2	148
QG	-	M5	5V	755-3	○	755-2	755-3	178



DESCRIPTION:

MORSETTIERA MC115 - MC24

REFEREMENT:

MASTER

N°: 180418

REVISIONE / REVISIONS: 15

SHEETS: 31 PAG. : 25

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

QG - MC115

QG	-	MC115	15V	501	501	501	6.19
QG	-	MC115	15V	570-1	501-1	570-1	14.18
QG	-	MC115	15V	501-2	501-2	501-2	17.18
QG	-	MC115	15V	502	502	502	6.19
QG	-	MC115	15V	512-1	512-1	512-1	12.7
QG	-	MC115	15V	514	512-2	514	15.8
QG	-	MC115	15V	512-3	512-2	512-3	18.8
QG	-	MC115	15V	513-1	512-3	513-1	12.7
QG	-	MC115	15V	513-2	513-1	513-2	15.8
QG	-	MC115	15V	513-3	513-2	513-3	18.8
QG	-	MC115	15V	525	513-3	525	9.5
QG	-	MC115	15V	526	525	526	9.5
QG	-	MC115	15V	527	526	527	9.2
QG	-	MC115	15V	528	527	528	9.3
QG	-	MC115	15V	550	528	550	9.6
QG	-	MC115	15V	551	550	551	9.7
QG	-	MC115	15V	552	551	552	9.7
QG	-	MC115	15V	553	552	553	9.8
QG	-	MC115	15V	554	553	554	9.9
QG	-	MC115	15V	555	554	555	9.10
QG	-	MC115	15V	556	555	556	9.11
QG	-	MC115	15V	557	556	557	9.11
QG	-	MC115	15V	558	557	558	9.18
QG	-	MC115	15V	559	558	559	9.14
QG	-	MC115	15V	560	559	560	9.15
QG	-	MC115	15V	570-1	560	570-1	14.18
QG	-	MC115	15V	570-2	570-1	570-2	17.18
QG	-	MC115	15	501	570-2	501	10.6
QG	-	MC115	15	705	571	705	10.6
QG	-	MC115	15	706	572	706	10.7
QG	-	MC115	15	501	573	501	10.11
QG	-	MC115	15	707	574	707	10.12
QG	-	MC115	15	708	575	708	10.12
QG	-	MC115	15	501	576	501	11.5
QG	-	MC115	15	709	577	709	11.6
QG	-	MC115	15	710	578	710	11.7
QG	-	MC115	15	501	579	501	11.11
QG	-	MC115	15	711	580	711	11.11
QG	-	MC115	15	712	581	712	11.2
QG	-	MC115	15		582		

QG - MC24

QG	-	MC24	24V	747	703	747	8.10
QG	-	MC24	24V	746	703	746	8.8
QG	-	MC24	24V	708	708	708	8.7
QG	-	MC24	24V	724	724	724	8.7
QG	-	MC24	24V	728	728	728	8.8
QG	-	MC24	24V	745	728	745	8.10
QG	-	MC24	24V	760	745	760	7.15
QG	-	MC24	24V	760	760	760	7.15
QG	-	MC24	24V	761	760	761	7.15
QG	-	MC24	24V	762	761	762	7.16
QG	-	MC24	24V	882	762	882	7.12
QG	-	MC24	24V	884	882	884	7.10
QG	-	MC24	24V	884	884	884	7.12
QG	-	MC24	24V	885	884	885	7.10
QG	-	MC24	24V	886	885	886	7.18
QG	-	MC24	24V	887	886	887	7.18
QG	-	MC24	24V	888	887	888	7.18
QG	-	MC24	24V	889	888	889	7.18
QG	-	MC24	24V	890	889	890	7.18
QG	-	MC24	24V		889		
QG	-	MC24	24V		890		
QG	-	MC24	24V		890		

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DESCRIPTION:

LEGENDA

REFEREMENT:

MASTER

N°: 180418

REVISIONE / REVISIONS: 15

SHEETS: 31 PAG. : 26

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/V	ENERGY METER (FRONTAL INSTALLATION)	2	1
C1	POWER FACTOR CORRECTION 1	5	1
C2	POWER FACTOR CORRECTION 2	5	1
C3	POWER FACTOR CORRECTION 3	5	1
C.C.1	CONTROL COMPRESSOR 1	12	1
C.C.2	CONTROL COMPRESSOR 2	15	1
C.C.3	CONTROL COMPRESSOR 3	18	1
CEWT	CONDENSATOR ENTERING WATER TEMPERATURE	7	1
CLWT	CONDENSATOR LEAVING WATER TEMPERATURE	7	1
CP-1	CONDENSER PRESSURE TRANSDUCER 1	13	1
CP-2	CONDENSER PRESSURE TRANSDUCER 2	16	1
CP-3	CONDENSER PRESSURE TRANSDUCER 3	19	1
DT-1	DISCHARGE TEMP. SENSOR 1	13	1
DT-2	DISCHARGE TEMP. SENSOR 2	16	1
DT-3	DISCHARGE TEMP. SENSOR 3	19	1
EEWT	EVAPORATOR ENTERING WATER TEMPERATURE	7	1
EEXV1	EXPANSION COMPRESSOR 1	14	1
EEXV2	EXPANSION COMPRESSOR 2	17	1
EEXV3	EXPANSION COMPRESSOR 2	20	1
ELWT	EVAPORATOR LEAVING WATER TEMPERATURE	7	1
ELWT-1	EVAPORATOR LEAVING WATER TEMP. SENSOR 1	14	1
ELWT-2	EVAPORATOR LEAVING WATER TEMP. SENSOR 2	17	1
EP-1	EVAPORATOR PRESSURE TRANSDUCER 1	13	1
EP-2	EVAPORATOR PRESSURE TRANSDUCER 2	16	1
EP-3	EVAPORATOR PRESSURE TRANSDUCER 3	19	1
EXV-1	ELECTRONIC EXPANSION VALVE 1	14	1
EXV-2	ELECTRONIC EXPANSION VALVE 2	17	1
EXV-3	ELECTRONIC EXPANSION VALVE 3	20	1
F0	COMPRESSOR FUSES	4	1
F1	COMPRESSOR FUSES	3	1
F2	COMPRESSOR FUSES	3	1
F3	COMPRESSOR FUSES	4	1
F5-1	COMPRESSOR 1 THERMAL RELAY	3	1
F5-2	COMPRESSOR 2 THERMAL RELAY	3	1
F5-3	COMPRESSOR 3 THERMAL RELAY	4	1
F10	TERMOSTAT (CLOSED >30°C)	6	1
F13-1	MECH. HIGH PRESSURE SWITCH 1	13	1
F13-2	MECH. HIGH PRESSURE SWITCH 2	16	1
F13-3	MECH. HIGH PRESSURE SWITCH 3	19	1
F13A-1	MECH. HIGH PRESSURE SWITCH 1	13	1
F13A-2	MECH. HIGH PRESSURE SWITCH 2	16	1
F13A-3	MECH. HIGH PRESSURE SWITCH 3	19	1
F59	PROTECTION FUSE	6	1
F59-1	PROTECTION FUSE	6	1
F59-2	PROTECTION FUSE	6	1

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



DESCRIPTION:

LEGENDA

REFEREMENT:

MASTER

N°: 180418

REVISIONE / REVISIONS: 15

SHEETS: 31 PAG. : 27

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
F59-3	PROTECTION FUSE	6	1
F60	PROTECTION FUSE	6	1
F112	PHASE VOLT MONITOR	6	1
F112A	UNDER/OVERVOLTAGE CONTROL	6	1
F130	AUXILIARY PROTECTION FUSES	6	1
F130A	UNDER/OVERVOLTAGE CONTROL FUSE	6	1
F140	PROTECTION FUSES	2	1
F.C.1	REMOTE FANS CONTROL BOARD	10	1
F.C.3	REMOTE FANS CONTROL BOARD	11	1
FC1	POWER FACTOR CORRECTION FUSES 1	5	1
FC2	POWER FACTOR CORRECTION FUSES 2	5	1
FC3	POWER FACTOR CORRECTION FUSES 3	5	1
FS	EVAPORATOR FLOW SWITCH	8	1
FS-1	EVAPORATOR FLOW SWITCH 1	14	1
FS-2	EVAPORATOR FLOW SWITCH 2	17	1
H.P.C.	HEAT PUMP CONTROLLER	21	1
HL1	ALARM SIGNAL LIGHT	31	1
HL2	ALARM SIGNAL LIGHT	31	1
HL3	ALARM SIGNAL LIGHT	31	1
HL4	ALARM SIGNAL LIGHT	31	1
K11	CONTACTOR	6	1
K12	AUXILIARY RELAY	6	1
KM2-1	CONTACTOR	12	1
KM2-2	CONTACTOR	15	1
KM2-3	CONTACTOR	18	1
KM3-1	CONTACTOR	12	1
KM3-2	CONTACTOR	15	1
KM3-3	CONTACTOR	18	1
KMC1	POWER FACTOR CORRECTION CONTACTORS CIR.1	12	1
KMC2	POWER FACTOR CORRECTION CONTACTORS CIR.2	15	1
KMC3	POWER FACTOR CORRECTION CONTACTORS CIR.3	18	1
KPC	CONDENSER WATER PUMP	31	1
KPE-1	PUMP CONTACT	31	1
KPE-2	PUMP CONTACT	31	1
KR	EXTERNAL FAULT	31	1
KRF2/2	REMOTE FAN 2/2 FREE CONTACT	31	1
KRF2/3	REMOTE FAN 2/3 FREE CONTACT	31	1
KRF2/4	REMOTE FAN 2/4 FREE CONTACT	31	1
KRF3/2	REMOTE FAN 3/2 FREE CONTACT	31	1
KRF3/3	REMOTE FAN 3/3 FREE CONTACT	31	1
KRF3/4	REMOTE FAN 3/4 FREE CONTACT	31	1
KRF2/1	REMOTE FAN 2/1 FREE CONTACT	31	1
KRF3/1	REMOTE FAN 3/1 FREE CONTACT	31	1
KT1-1	DELAY RELAY	12	1
KT1-2	DELAY RELAY	15	1

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



DESCRIPTION:

LEGENDA

REFEREMENT:

MASTER

N°: 180418

REVISIONE / REVISIONS: 15

SHEETS: 31 PAG. : 28

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
KT1-3	DELAY RELAY	18	1
KT13-1	TIME DELAY RELAY	12	1
KT13-2	TIME DELAY RELAY	15	1
KT13-3	TIME DELAY RELAY	18	1
M1	COMPRESSOR 1	3	1
M2	COMPRESSOR 2	3	1
M3	COMPRESSOR 3	4	1
OP2C	2 COMPRESSOR UNIT	3	1
OP3C	3 COMPRESSOR UNIT	4	1
OP11	THERMAL RELAY	3	1
OP15	VARIABLE PHASE MONITOR	6	1
OP16	ENERGY METER	2	1
OP17	POWER FACTOR CORRECTION	5	1
OP19	CURRENT LIMIT	2	1
OP95	COMPRESSOR CIRCUIT BREAKER	3	1
OP102	GROUND FAULT RELAY	2	1
OP-1	OIL PRESSURE TRANSDUCER 1	13	1
OP-2	OIL PRESSURE TRANSDUCER 2	16	1
OP-3	OIL PRESSURE TRANSDUCER 3	19	1
Q0	UNIT ON - OFF	8	1
Q1	CIRCUIT SWITCH 1	13	1
Q2	CIRCUIT SWITCH 2	16	1
Q3	CIRCUIT SWITCH 3	19	1
Q5	DOUBLE SETPOINT	31	1
Q8	HEAT PUMP SWITCH	21	1
Q10	MAIN SWITCH	2	1
Q11	EMERGENCY STOP	6	1
Q12	AUTOMATIC CIRCUIT BREAKER	6	1
QC1	CAPACITOR 1 THERMAL RELAY	5	1
QC2	CAPACITOR 2 THERMAL RELAY	5	1
QC3	CAPACITOR 3 THERMAL RELAY	5	1
QCL	CURRENT LIMIT ENABLE	31	1
R1	COMPRESSOR CRANKCASE HEATER 1	4	1
R2	COMPRESSOR CRANKCASE HEATER 2	4	1
R3	COMPRESSOR CRANKCASE HEATER 3	4	1
R5	EVAPORATOR HEATER	6	1
R11	OIL SEPARATOR HEATER 1	4	1
R12	OIL SEPARATOR HEATER 2	4	1
R13	OIL SEPARATOR HEATER 3	4	1
SC	CURRENT LIMIT	2	1
SPN87	HEAT PUMP VERSION	21	1
SPN95	FORCED VENTILATION	6	1
ST-1	SUCTION TEMPERATURE SENSOR 1	14	1
ST-2	SUCTION TEMPERATURE SENSOR 2	17	1
ST-3	SUCTION TEMPERATURE SENSOR 3	20	1

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



DESCRIPTION:

LEGENDA

REFEREMENT:

MASTER

N°: 180418

REVISIONE / REVISIONS: 15

SHEETS: 31 PAG. : 29

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
T1	400/115v TRANSFORMER	6	1
T2	115V/24V TRANSFOMER	6	1
TA0	AMMETER TRANSFORMER	2	1
TA1	AMMETER TRANSFORMER	2	1
TA3	AMMETER TRANSFORMER	2	1
TA4	AMMETER TRANSFORMER	2	1
TC5	TERMOSTAT	6	1
TW1	TOWER 1 FREE CONTACT	31	1
TW2	TOWER 2 FREE CONTACT	31	1
TW3	TOWER 3 FREE CONTACT	31	1
TW4	TOWER 4 FREE CONTACT	31	1
U.C.	UNIT CONTROL	7	1
W1	COMPRESSOR THERMISTOR CIRC. 1	3	1
W2	COMPRESSOR THERMISTOR CIRC. 2	3	1
W3	COMPRESSOR THERMISTOR CIRC. 2	4	1
Y2B-1	LOADER SOL. VALVE 1	12	1
Y2B-2	LOADER SOL. VALVE 2	15	1
Y2B-3	LOADER SOL. VALVE 3	18	1
Y3B-1	UNLOADER SOL. VALVE 1	12	1
Y3B-2	UNLOADER SOL. VALVE 2	15	1
Y3B-3	UNLOADER SOL. VALVE 3	18	1
YJ-1	LIQUID INJECTION SOLENOID VALVE 1	12	1
YJ-2	LIQUID INJECTION SOLENOID VALVE 2	15	1
YJ-3	LIQUID INJECTION SOLENOID VALVE 3	18	1

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



DESCRIPTION:

NOTE

REFEREMENT:

MASTER

N°: 180418

REVISIONE / REVISIONS: 15

SHEETS: 31 PAG. : 30

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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

SCO = Standard Compressor Fuse + Overcurrent

ITEM		3216-R134a	3218-R134a	3220-R134a	3221-R134a
		HSA167	HSA179	HSA197	HSA203
FLA		112 A	134 A	161 A	182 A
F1,F2,F3		160 A gG NH00	160 A gG NH00	200 A gG NH1	250 A gG NH1
F5-1,2,3	Set (OP11)	68 A	82 A	98 A	111 A
F1,F2,F3	Set (OP95)	118 A	141 A	169 A	191 A

SCO = Standard Compressor Fuse + Overcurrent

ITEM		4221-R134a	4222-R134a	4223-R134a	4224-R134a
		HSA205	HSA220	HSA235	HSS4224
F1,F2,F3		250 A gG NH1	315 A gG NH2	355 A gG NH2	400 A gG NH2
F5-1,2,3	Set (OP11)	119 A	147 A	172 A	195 A
F1,F2,F3	Set (OP95)	205 A	254 A	296 A	337 A

SCO = Standard Compressor Fuse + Overcurrent

	ITEM	3216-R410	3218-R410	3220-R410	3221-R410	4221-R410	4222-R410	4223-R410	4224-R410
		HSW167	HSW179	HSW197	HSW203	HSA205	HSA220	HSA235	HSS4224
3200-Fr4 (R410A)	F1,F2,F3	250A gG NH1	250A gG NH1	315A gG NH2	355A gG NH2	355A gG NH2	500A gG NH3	630A gG NH3	0
	F5-1,2,3	Set (OP11)	115 A	137 A	167 A	189 A	236 A	279 A	0 A
	F1,F2,F3	Set (OP99)	198 A	236 A	288 A	326 A	341 A	407 A	0 A

OP17 Power Factor Correction - Capacitor + Overcurrent

	ITEM	3118-R134a	3120-R134a	3121-R134a	3122-R134a	3123-R134a
		HSS3118	HSS3120	HSS3121	HSS3122	HSS3123
3100	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

OP17 Power Factor Correction - Capacitor + Overcurrent

	ITEM	3216-R134a	3218-R134a	3220-R134a	3221-R134a
		HSA167	HSA179	HSA197	HSA203
3200	FC1,2,3	35 A gG E18	35 A gG E18	35 A gG E18	35 A gG E18
	QC1,2,3	25 A	25 A	25 A	25 A

OP17 Power Factor Correction - Capacitor + Overcurrent

	ITEM	4221-R134a	4222-R134a	4223-R134a	4224-R134a
		HSA205	HSA220	HSA235	HSS4224
Fr4	FC1,2,3	50 A gG E18	63 A gG E18	63 A gG E18	63 A gG E18
	QC1,2,3	30 A	40 A	40 A	40 A

OP17 Power Factor Correction - Capacitor + Overcurrent

	ITEM	3216-R410	3218-R410	3220-R410	3221-R410	4221-R410	4222-R410	4223-R410	4224-R410
		HSW167	HSW179	HSW197	HSW203	HSA205	HSA220	HSA235	HSS4224
3200-Fr4 (R410A)	FC1,2,3	50 A gG E18	50 A gG E18	50 A gG E18	50 A gG E18	63 A gG E18	63 A gG E18	63 A gG E18	63 A gG E18
	QC1,2,3	30 A	30 A	30 A	30 A	40 A	40 A	40 A	40 A

Option

Description

OP10

Evaporator Heater

OP11

Thermal Relay

OP15

Variable Phase monitor

OP16

Energy Meter

OP17

Power Factor Correction

OP19

Current limit

OP95

Compressor Circuit Breaker

OP2C

2 compressors unit

OP3C

3 compressors unit (only WHS units)

OP102

Ground Fault Protection

SPN87

Heat Pump Version

SPN95

Forced Ventilatin

CF = Control Fuses + Transformer

ITEM	1 Comp	2 Comp	3 Comp
F0	2 A gG E14	4 A gG E14	4 A gG E14
F140	2 A gG E14	2 A gG E14	2 A gG E14
F130/F130A	4 A gG E14	4 A gG E14	10 A gG E14
T1	500 VA	500 VA	1000 VA
Q12	4 A 6kA - C	4 A 6kA - C	8 A 6kA - C
T2	200 VA	200 VA	200 VA
F59	4 A gG CH10	4 A gG CH10	4 A gG CH10
F59-1	4 A gG CH10	4 A gG CH10	4 A gG CH10
F59-2	-	4 A gG CH10	4 A gG CH10
F59-3	-	-	4 A gG CH10
F60	4 A gG CH10	4 A gG CH10	4 A gG CH10

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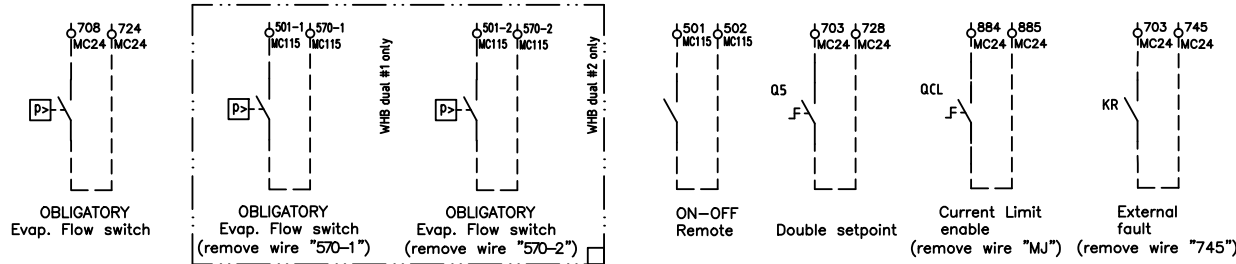
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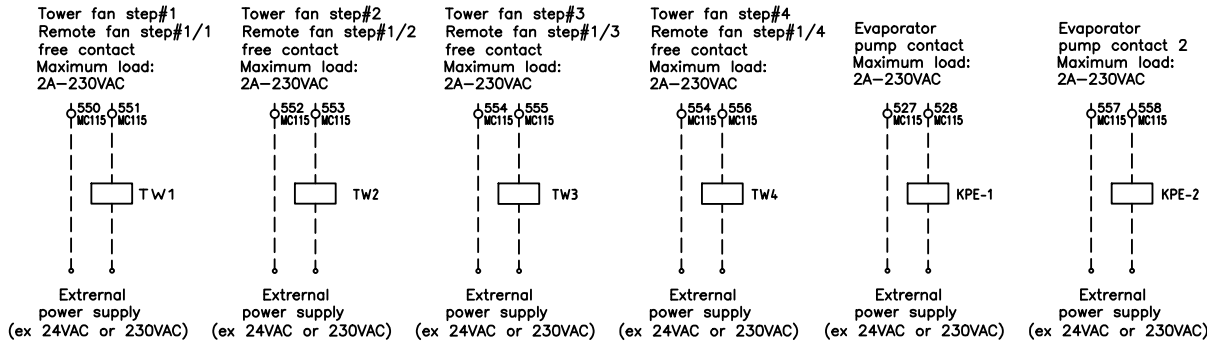
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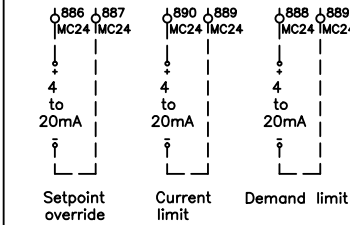
Digital input terminals



Digital output terminals



Analog input terminals



Analog output terminals

