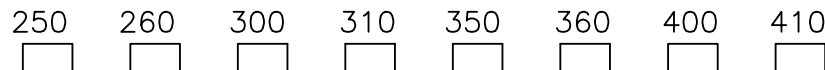


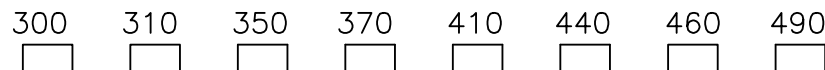
| SHEET | DESCRIPTION                                    |
|-------|--|
| 1     | FRONT PAGE                                     |
| 2     | POWER COMPRESSOR                               |
| 3     | CRANCASE HEATERS POWER SUPPLY                  |
| 4     | KIT PUMPS                                      |
| 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 M4.00 - M115 - M24                 |
| 19    | MORSETTIERA MC115 - MC24                       |
| 20    | LEGENDA  |
| 21    | LEGENDA  |
| 22    | LEGENDA  |
| 23    | NOTE   |
| 24    | FIELD WIRING CONNECTION                        |

WIRING DIAGRAM

EWAD 250E ÷ 410E-SS/SL

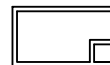


ERAD 300E ÷ 490E-SS/SL



- VERSIONE BASE -  
- STANDARD VERSION -

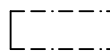
- MicroTech® III -



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

| 8    | 10-10-11   | Revised pag. 2 e 23                           | M.P. | M.P.   |         |
|------|------------|---|------|--------|---------|
| 7    | 28-07-11   | Added terminal "529" M115 to pag.12           | M.P. | M.P.   |         |
| 6    | 08-03-11   | Revised "OP16" to pag. 2                      | 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    | 24-09-2010 | Added "CU" indication version to pag. 6-12-14 | M.P. | M.P.   |         |
| 2    | 11-05-2010 | Revised pag. 11                               | M.P. | M.P.   |         |
| 1    | 22-04-2010 | Revised pag. 11 e 24                          | M.P. | M.P.   |         |
| REV. | DATE       | HISTORY REVISIONS                             | DWG. | CHECK. | PASSED. |

DIAGRAM N.:

180442

File: (180442/1804421)

Code ID:

DATE: 30/03/2010

REV: 8

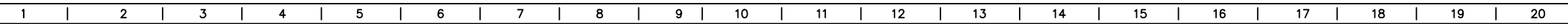
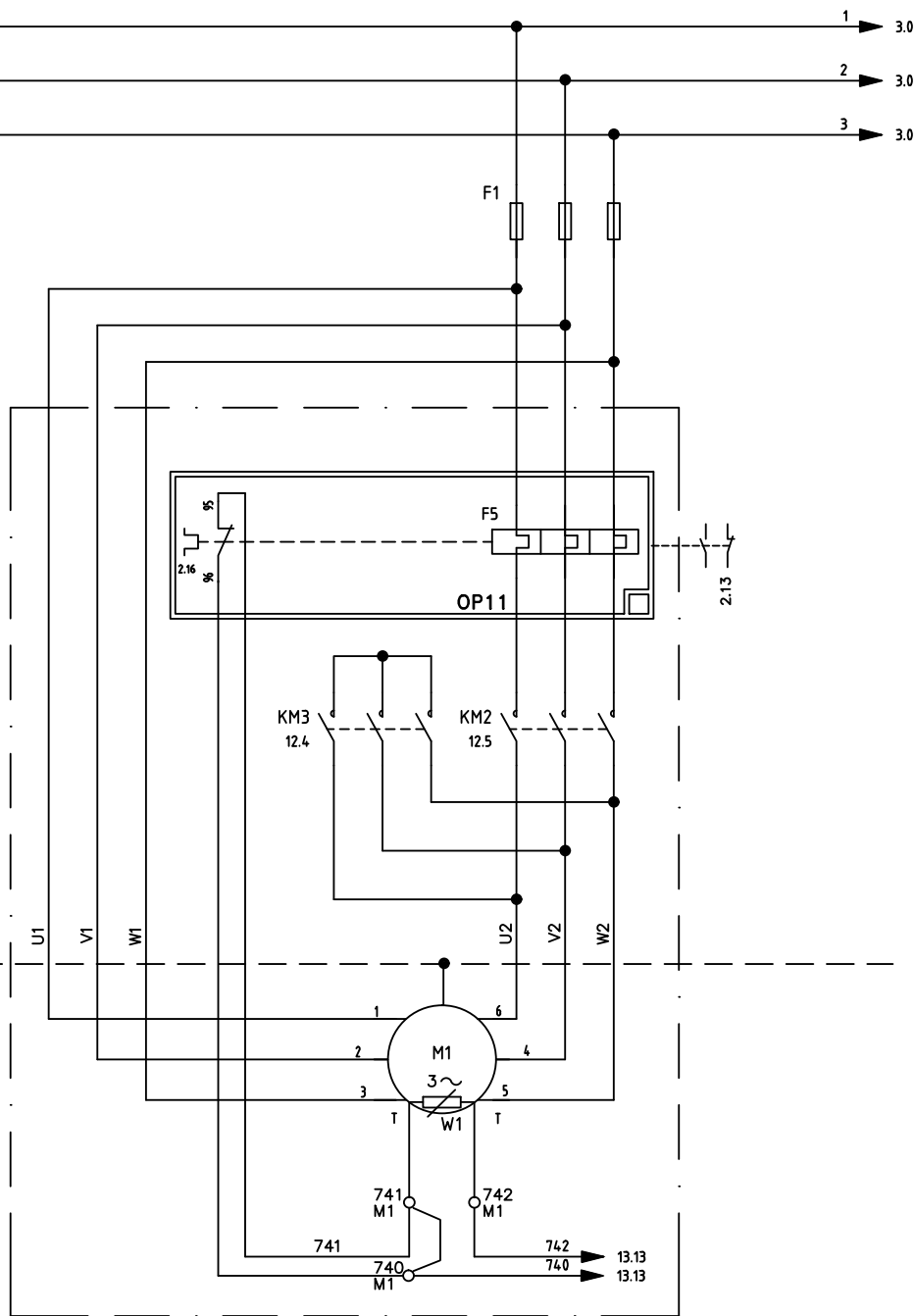
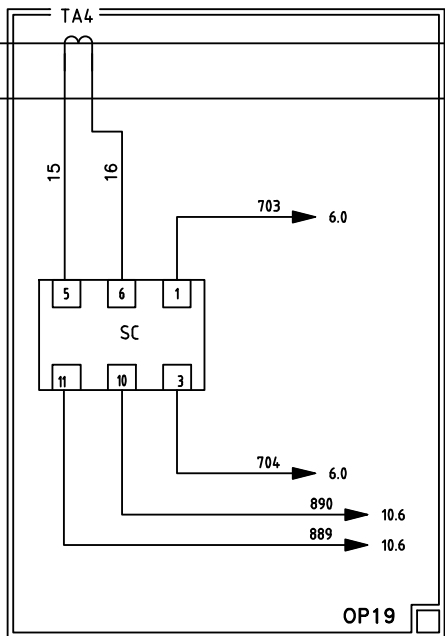
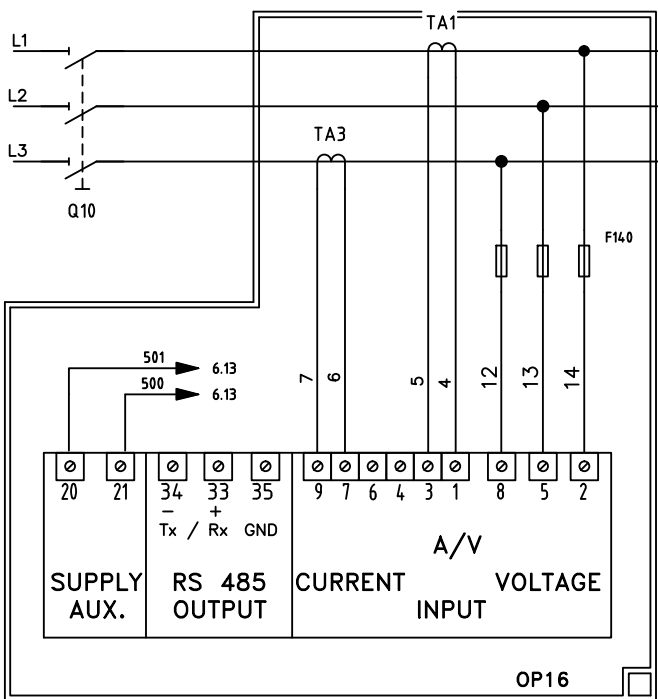
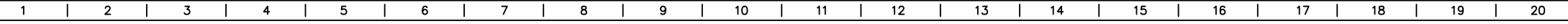
DWG.

DAIKIN EUROPE NV

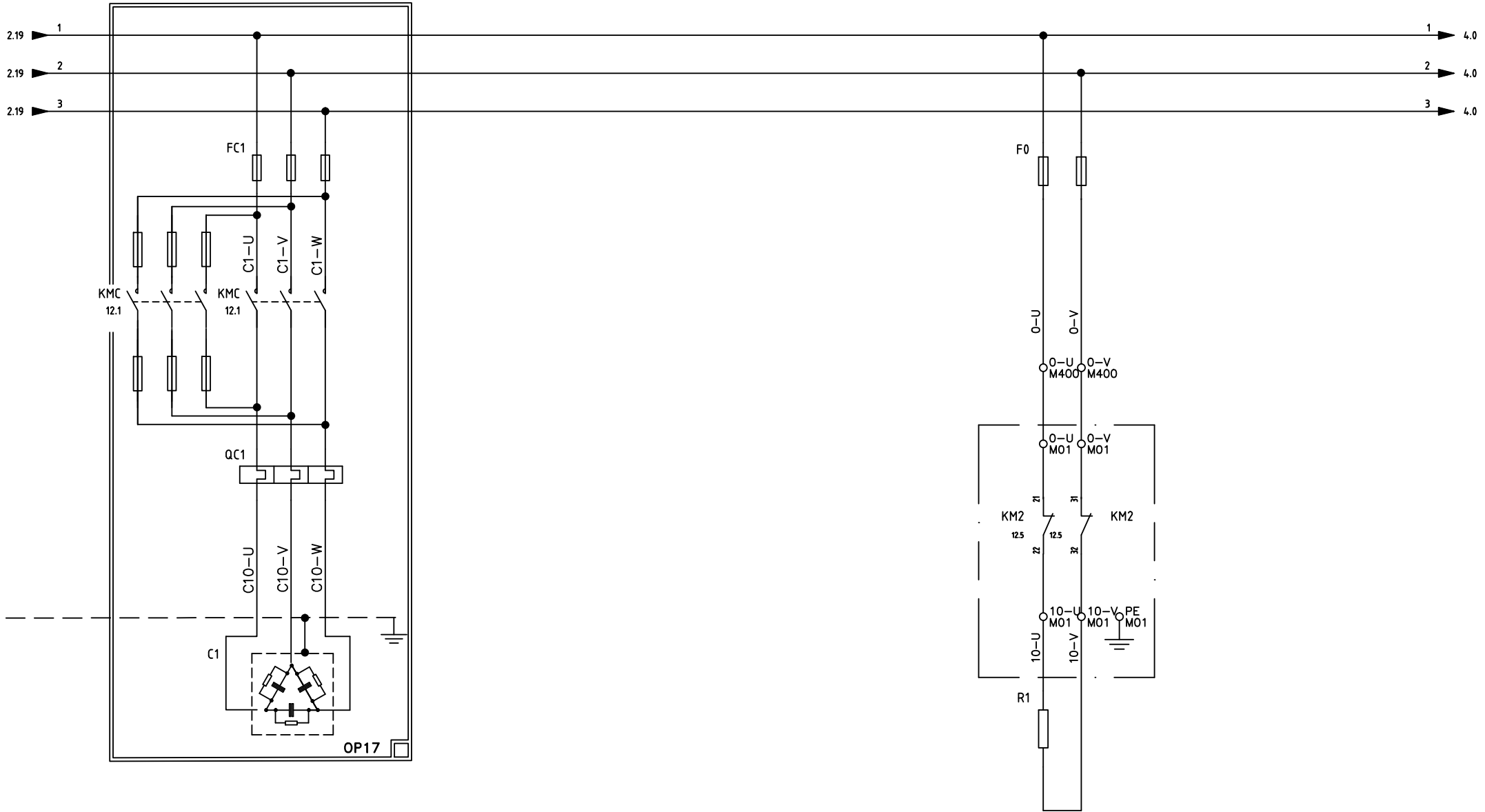
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CHECK.

PASSED.

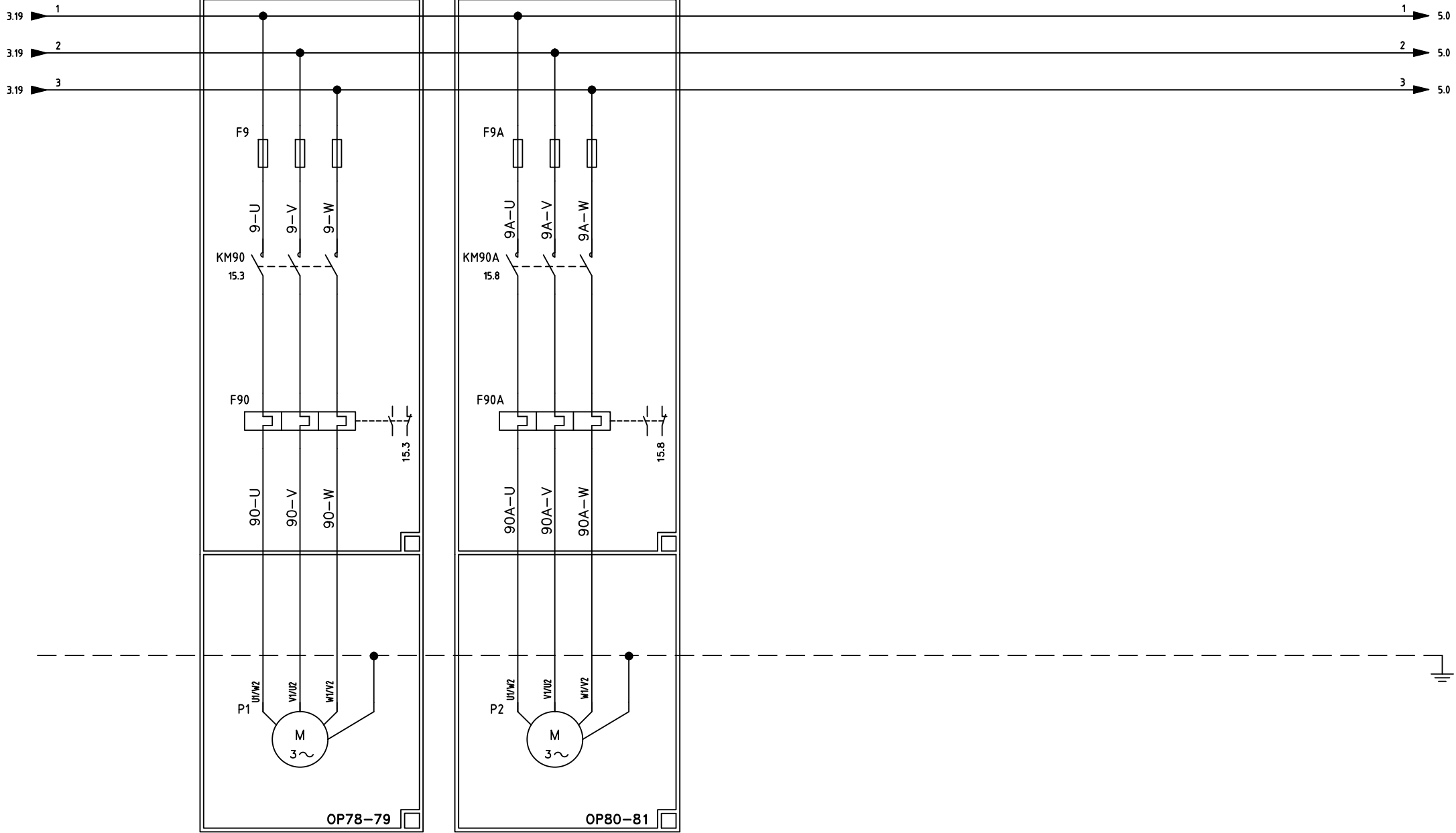


1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20



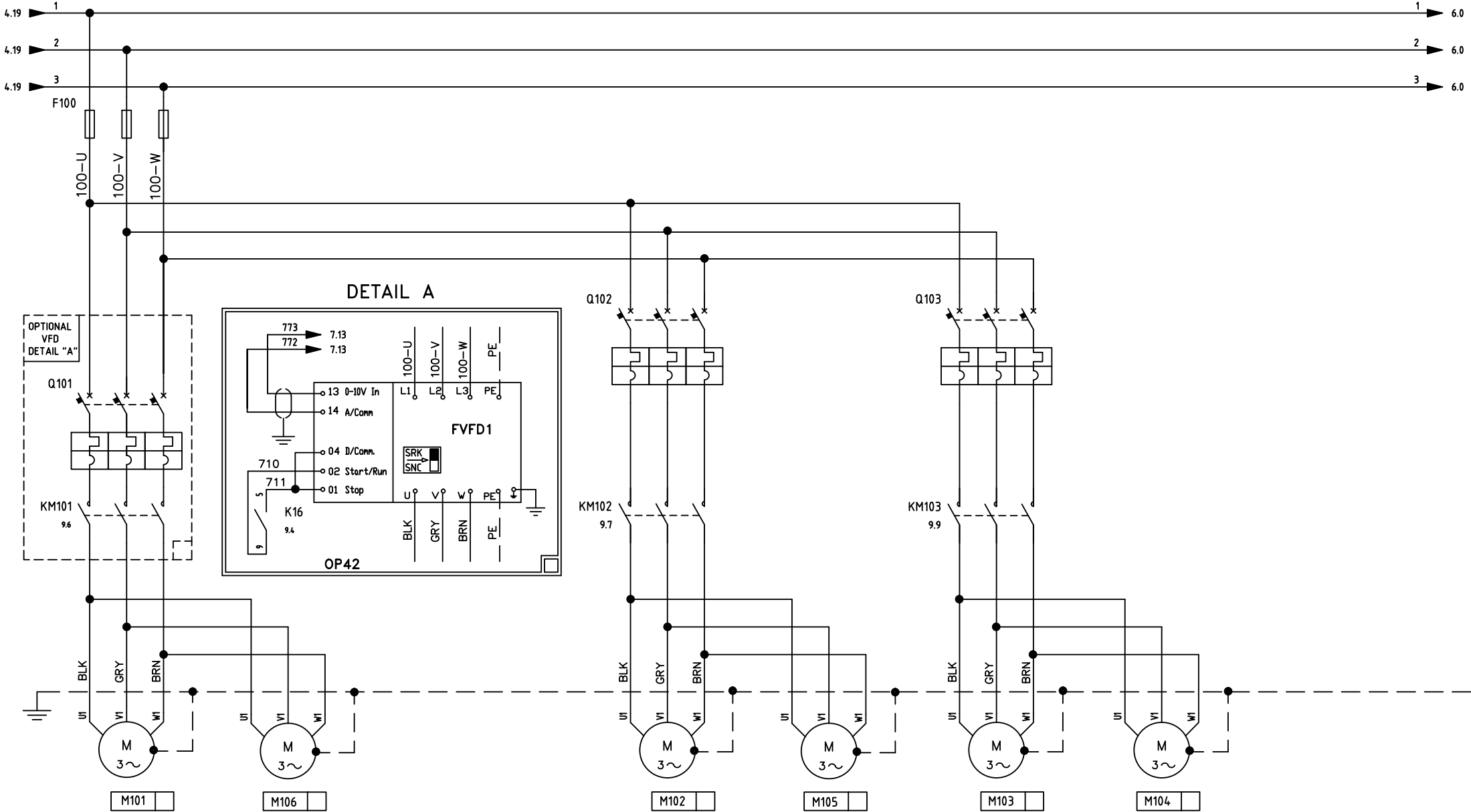
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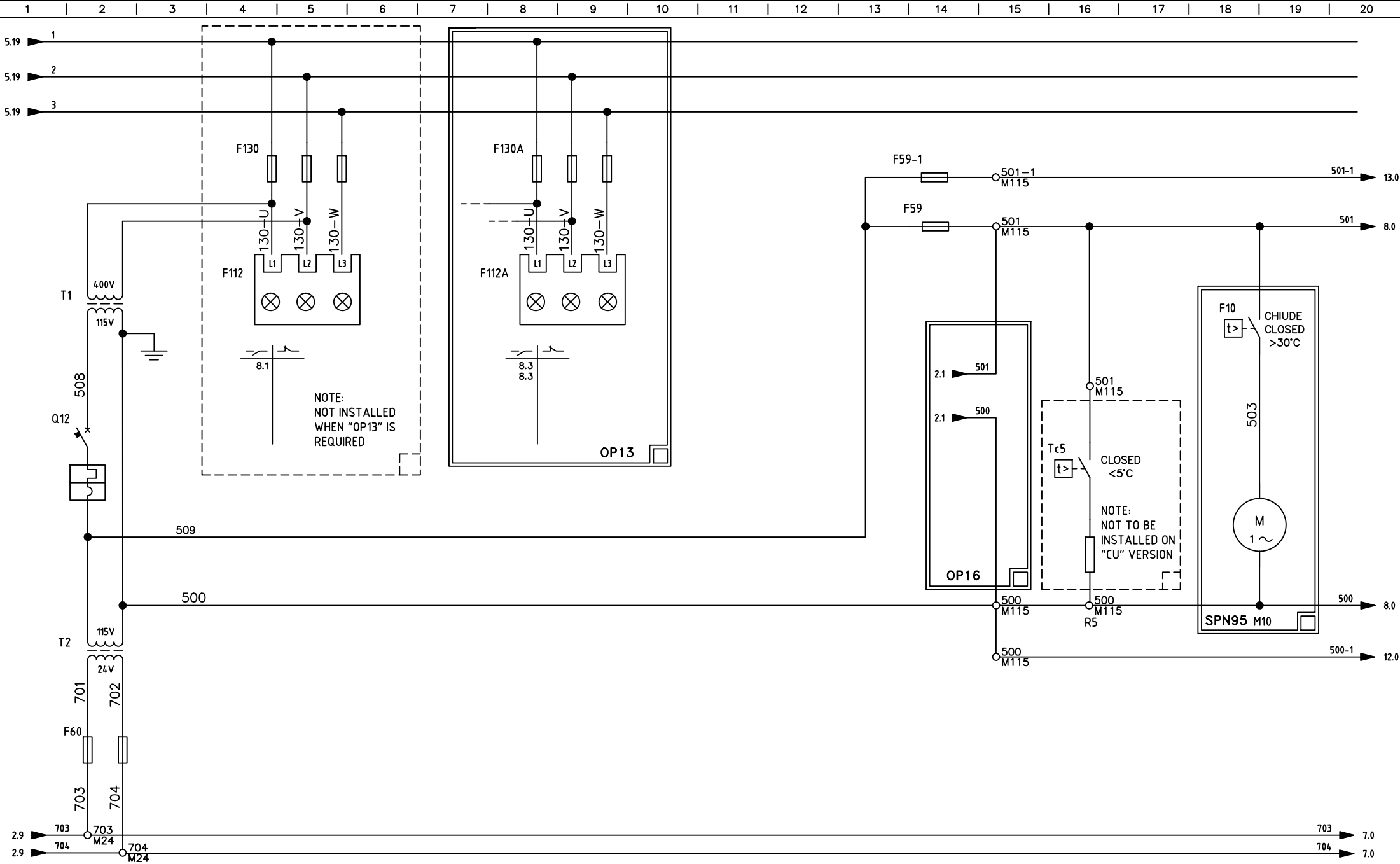


1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

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:  
NOT INSTALLED  
WHEN "OP13" IS  
REQUIRED

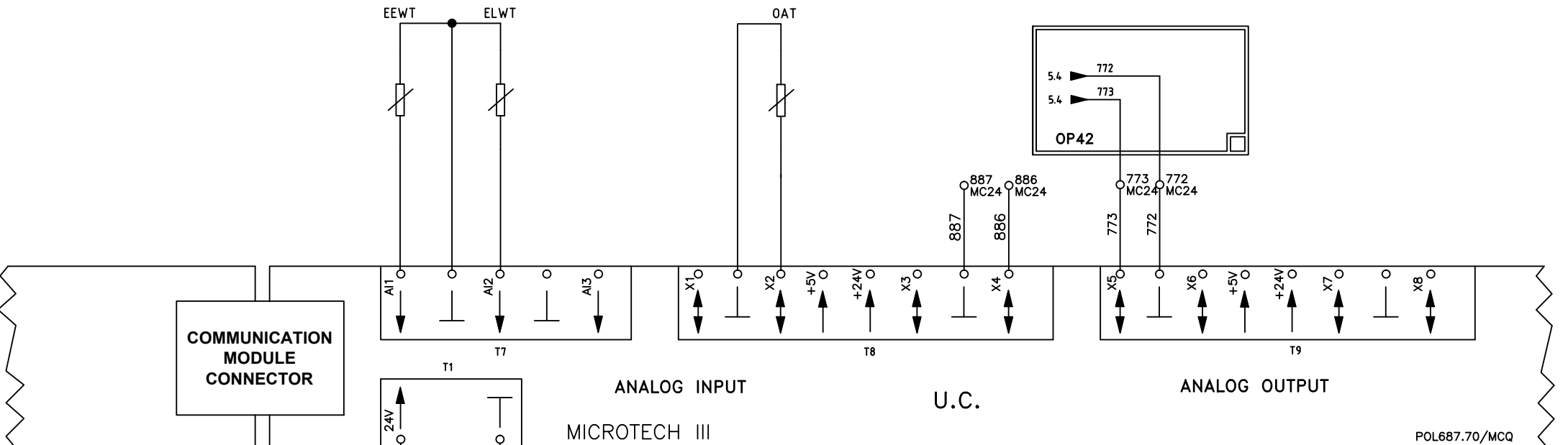
NOTE:  
NOT TO BE  
INSTALLED ON  
"CU" VERSION

F10  
CHIUDE  
CLOSED  
>30°C

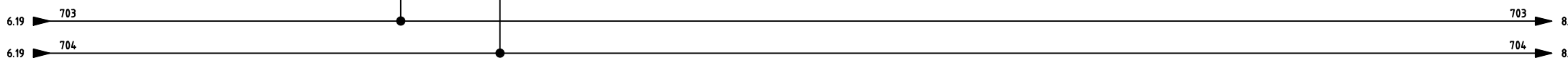
Tc5  
CLOSED  
<5°C

SPN95 M10

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

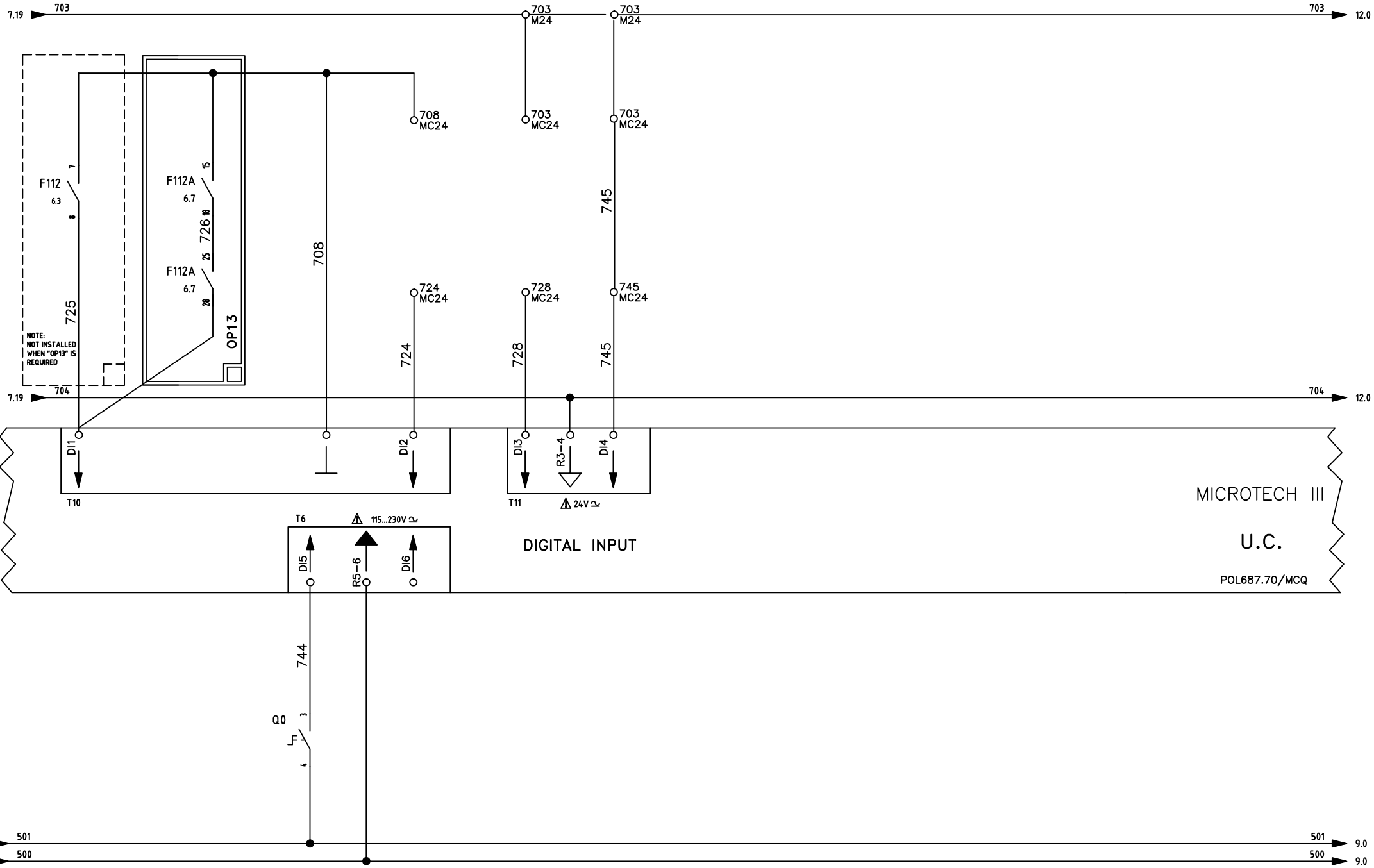


NOTE:  
COMMUNICATION MODULE  
(SEE SHEET 16)



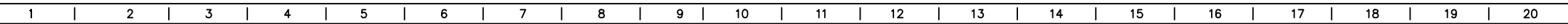
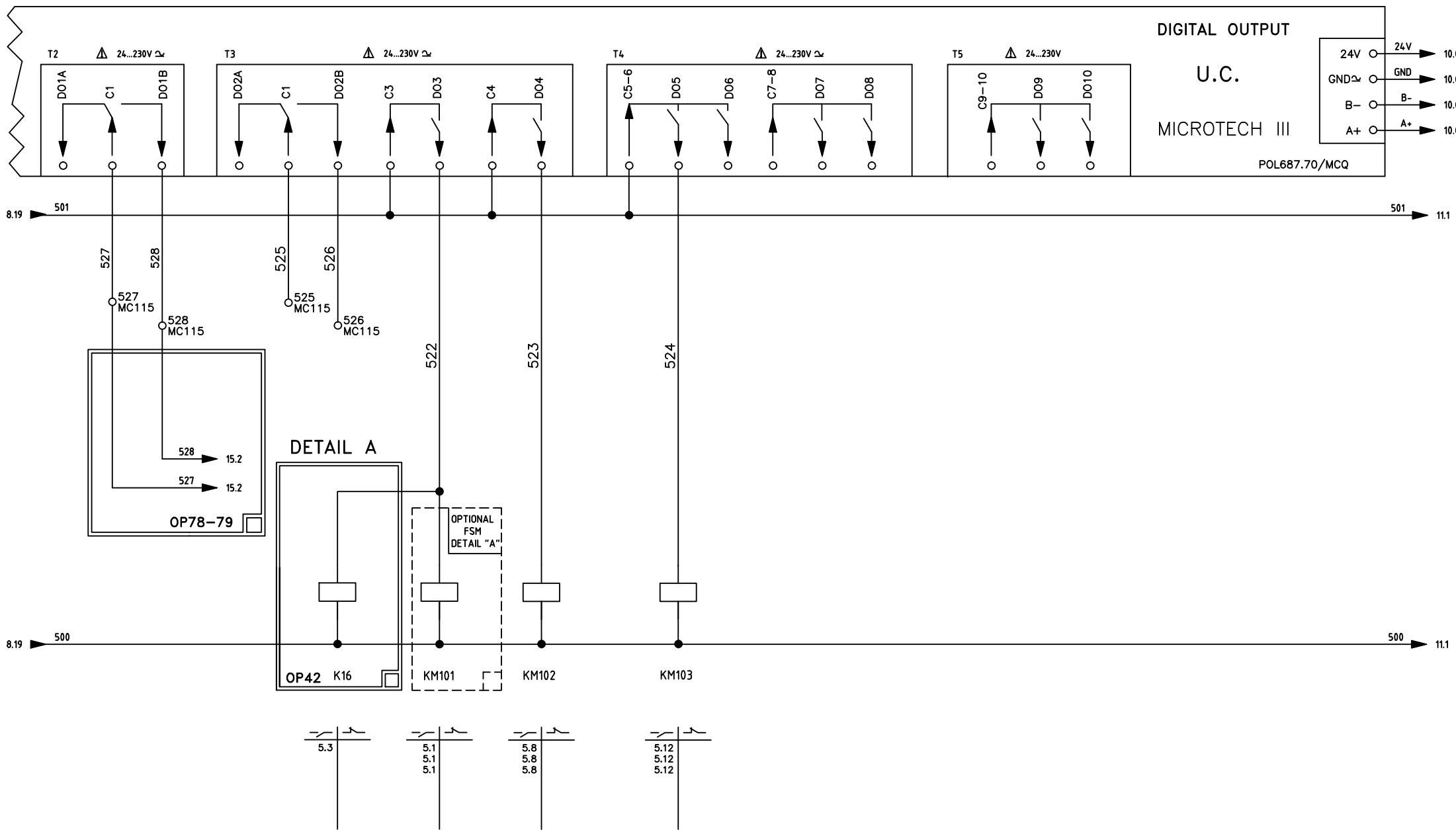
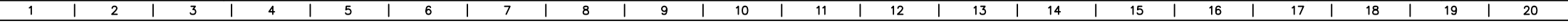
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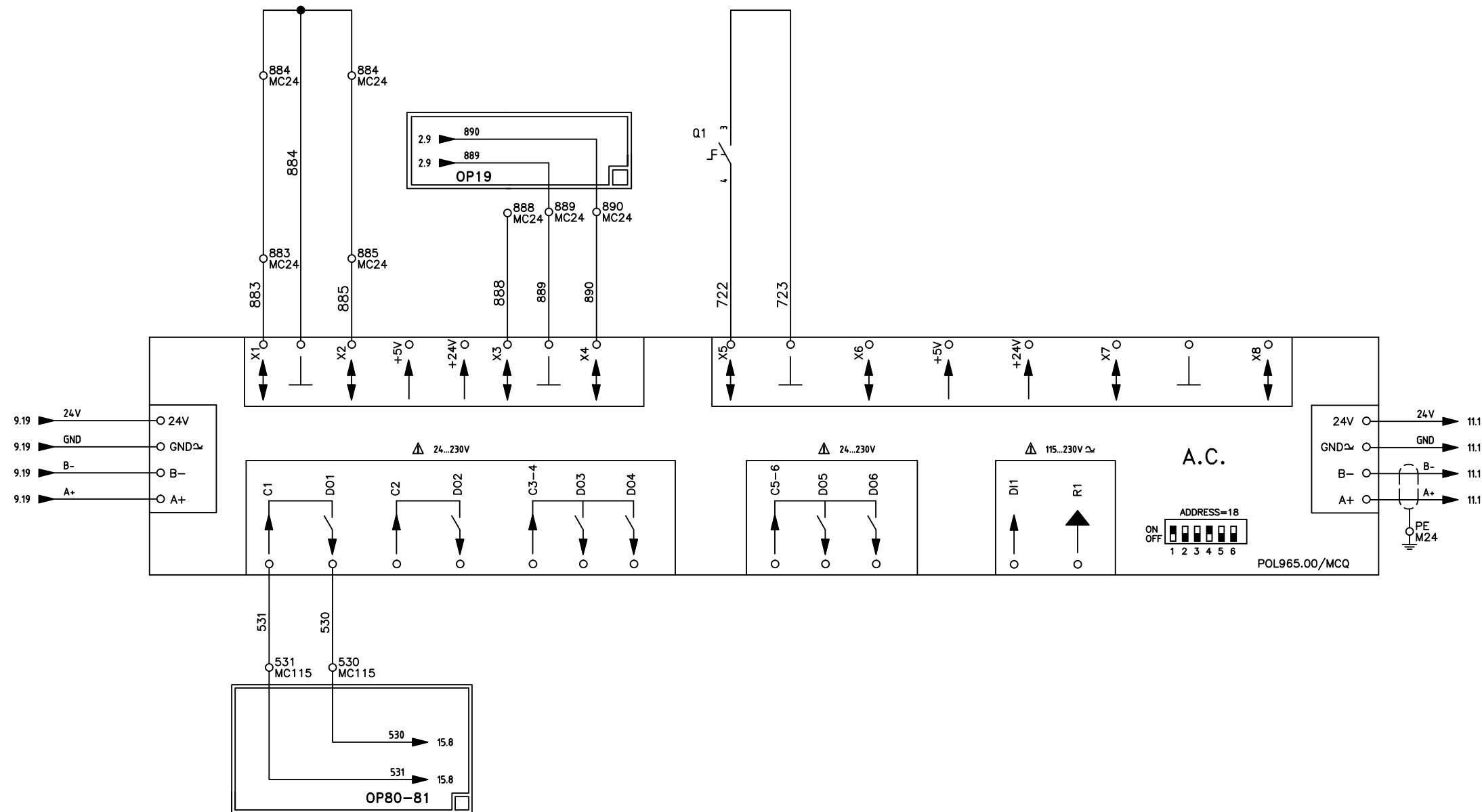


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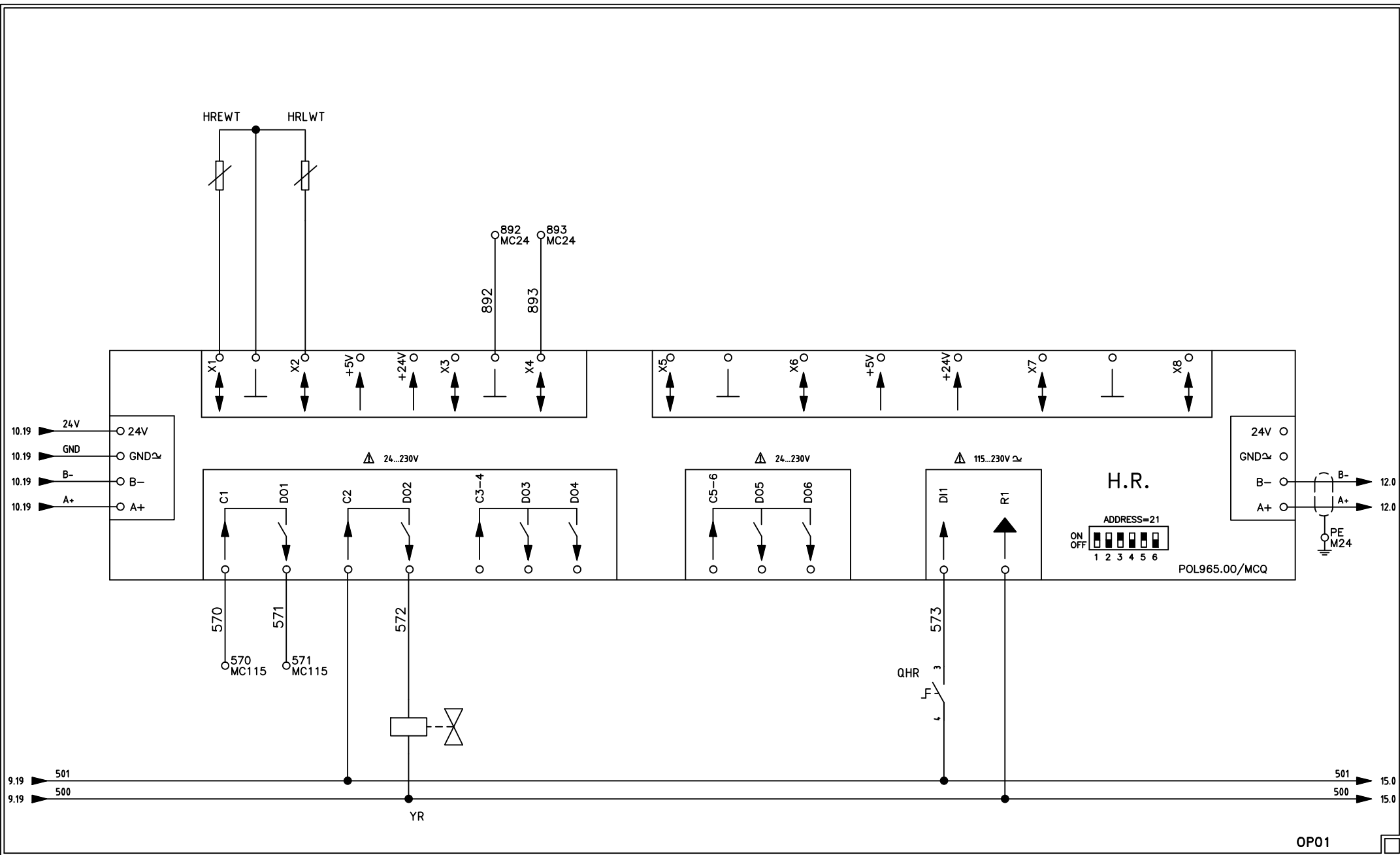


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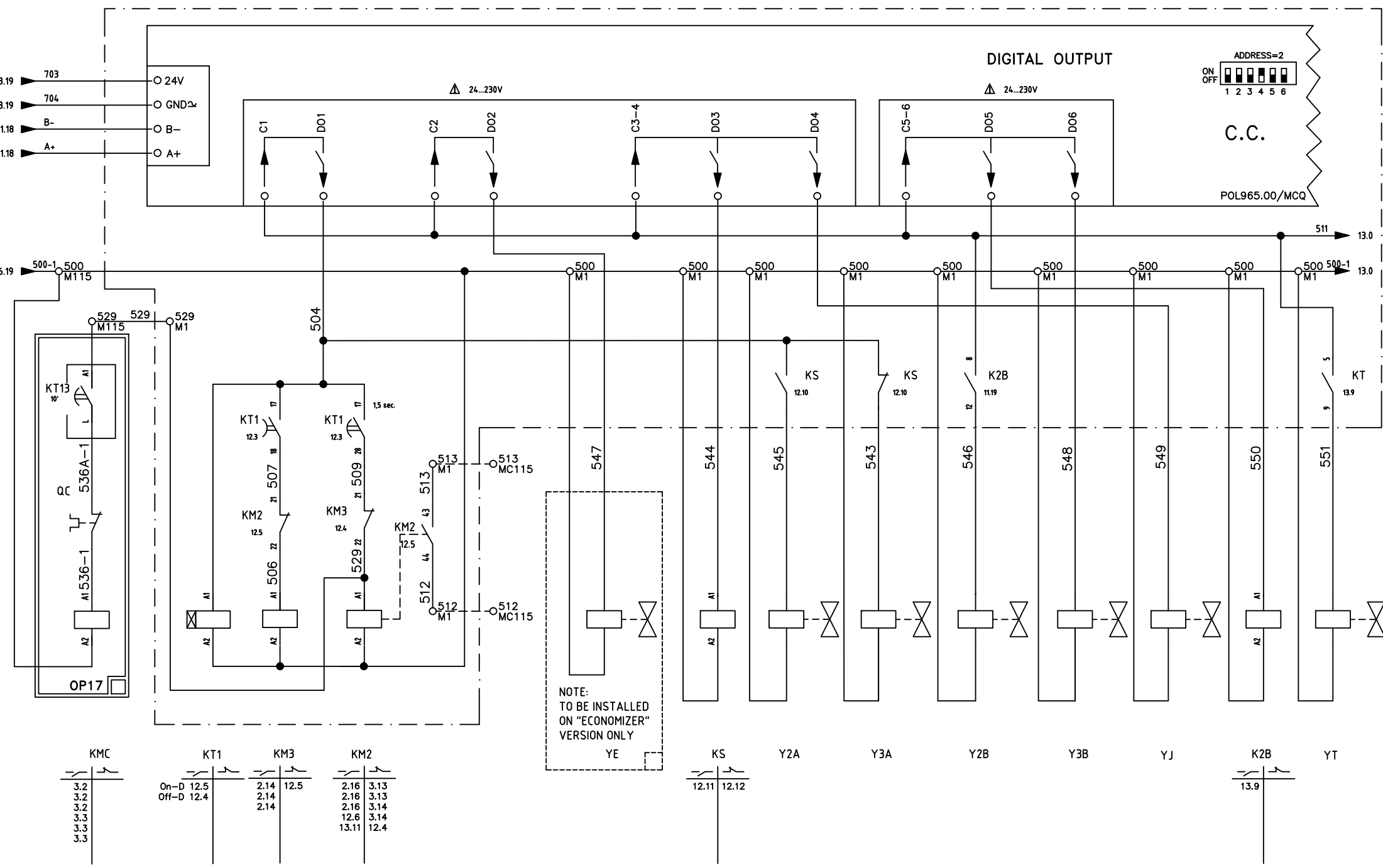
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1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20



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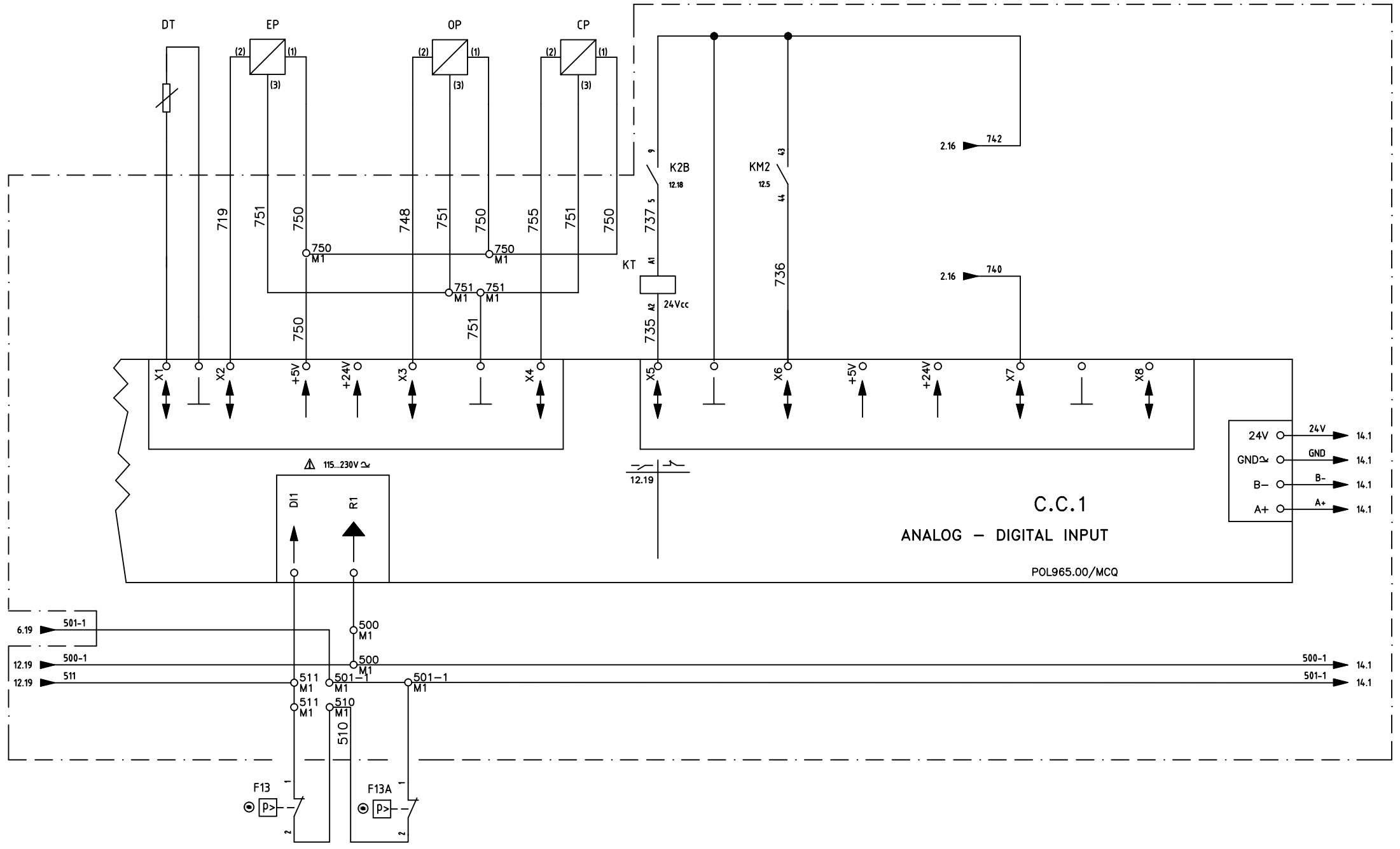
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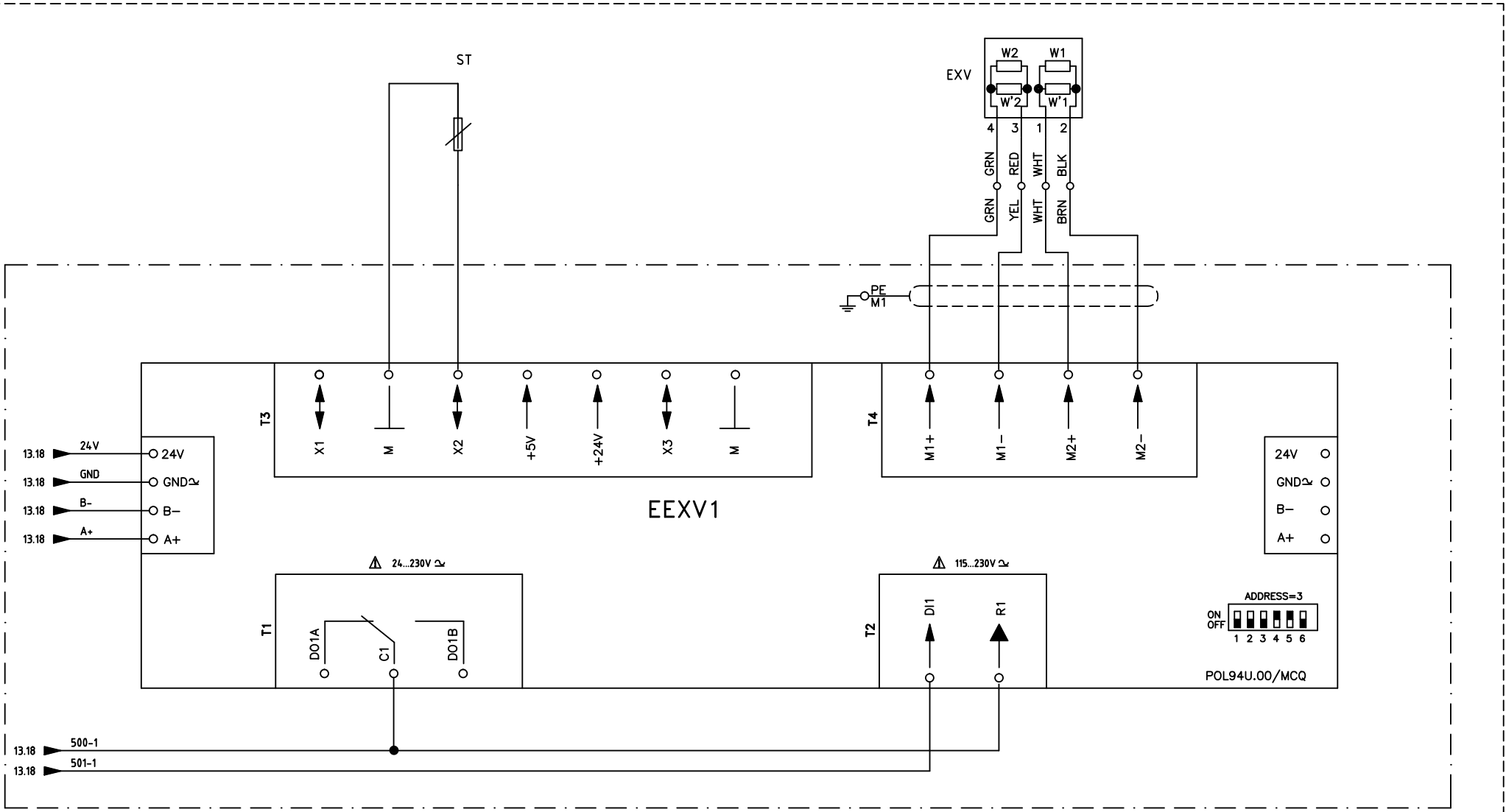
NOTE:  
TO BE INSTALLED  
ON "ECONOMIZER"  
VERSION ONLY

|  |                         |                           |  |             |            |            |            |            |           |            |           |
|--|-------------------------|---------------------------|--|-------------|------------|------------|------------|------------|-----------|------------|-----------|
| <b>KMC</b>   | <b>KT1</b>              | <b>KM3</b>                | <b>KM2</b>   | <b>KS</b>   | <b>Y2A</b> | <b>Y3A</b> | <b>Y2B</b> | <b>Y3B</b> | <b>YJ</b> | <b>K2B</b> | <b>YT</b> |
| 3.2<br>3.2<br>3.2<br>3.2<br>3.2<br>3.2<br>3.2<br>3.2 | On-D 12.5<br>Off-D 12.4 | 2.14 12.5<br>2.14<br>2.14 | 2.16 3.13<br>2.16 3.13<br>2.16 3.14<br>12.6 3.14<br>13.11 12.4 | 12.11 12.12 |            |            |            |            |           | 13.9       |           |

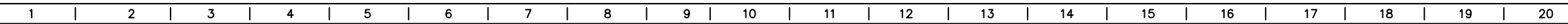
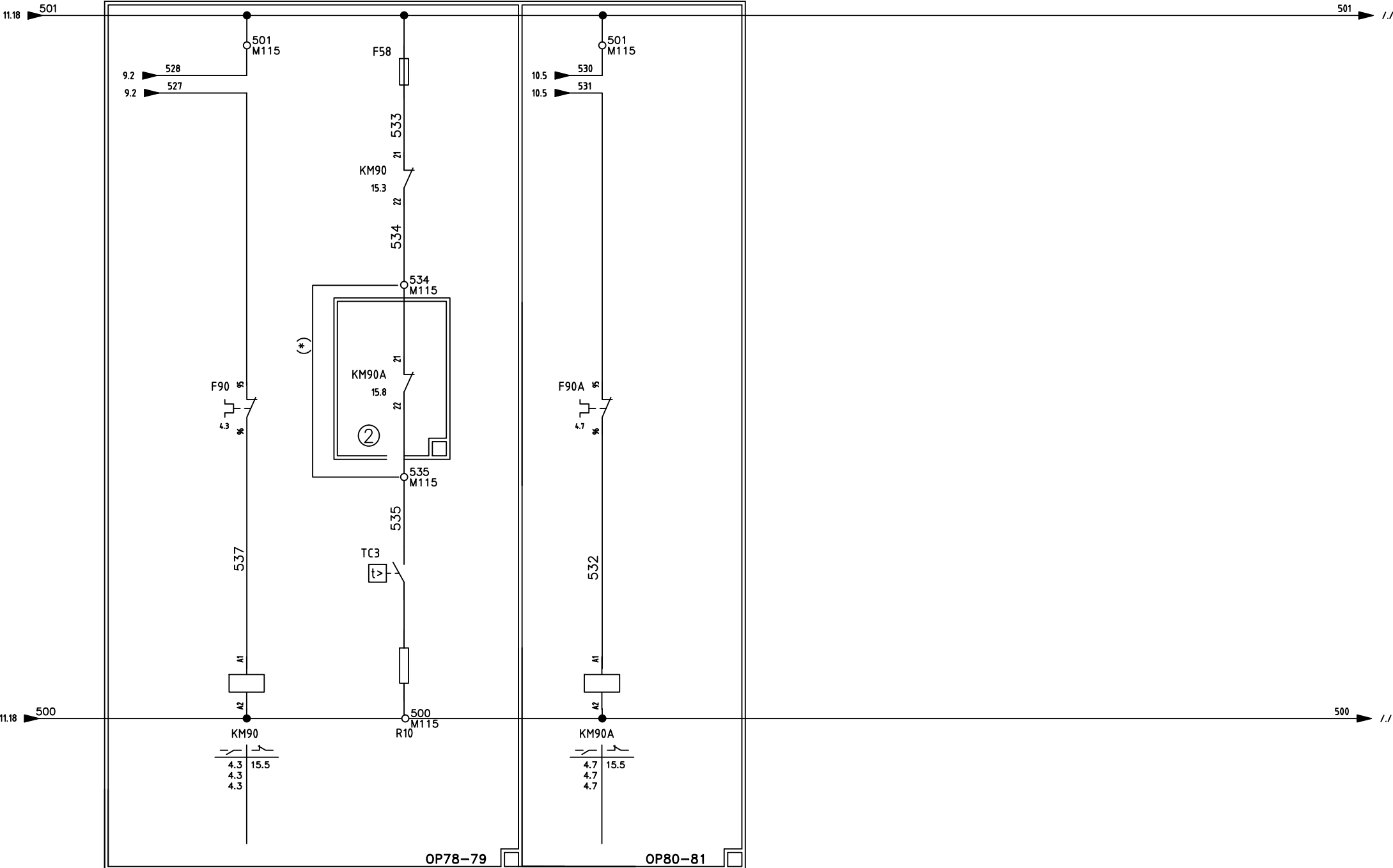
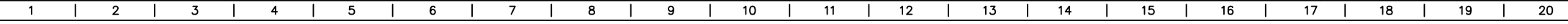
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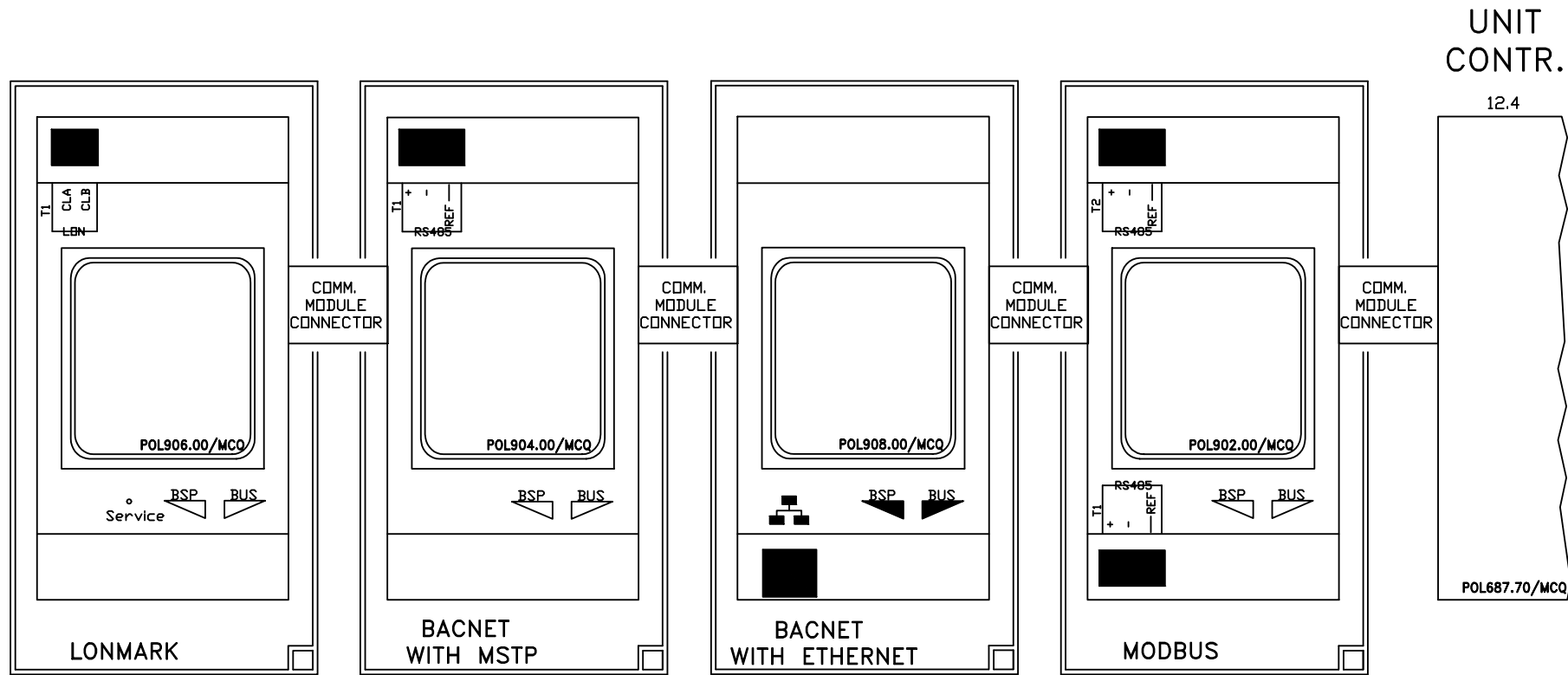


1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20



NOTE:  
NOT TO BE INSTALLED ON "CU" VERSION





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.

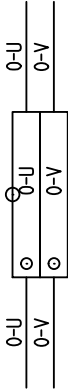




1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

QG - M400

|  |  |     |
|--|--|-----|
|  |  | 313 |
|  |  | 314 |

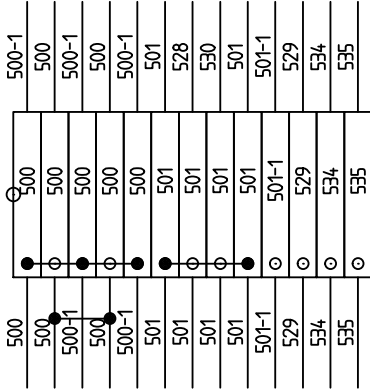


|    |   |      |      |
|----|---|------|------|
| QG | - | M400 | 400V |
| QG | - | M400 | 400V |

400V

QG - M115

|  |  |     |
|--|--|-----|
|  |  | 614 |
|  |  | 615 |
|  |  | 120 |
|  |  | 155 |
|  |  | 614 |
|  |  | 615 |
|  |  | 153 |
|  |  | 158 |
|  |  | 614 |
|  |  | 614 |
|  |  | 121 |
|  |  | 155 |
|  |  | 155 |

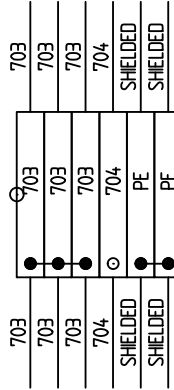


|    |   |      |      |
|----|---|------|------|
| QG | - | M115 | 115V |
| QG | - | M115 | 115V |
| QG | - | M115 | 115V |
| QG | - | M115 | 115V |
| QG | - | M115 | 115V |
| QG | - | M115 | 115V |
| QG | - | M115 | 115V |
| QG | - | M115 | 115V |
| QG | - | M115 | 115V |
| QG | - | M115 | 115V |
| QG | - | M115 | 115V |
| QG | - | M115 | 115V |
| QG | - | M115 | 115V |

115V

QG - M24

|  |  |      |
|--|--|------|
|  |  | 61   |
|  |  | 89   |
|  |  | 87   |
|  |  | 61   |
|  |  | 1018 |
|  |  | 1118 |



|    |   |     |     |
|----|---|-----|-----|
| 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    |
| 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    |
| EXV   | ELECTRONIC EXPANSION VALVE            | 14    | 1    |
| F0    | COMPRESSOR FUSES                      | 3     | 1    |
| F1    | COMPRESSOR FUSES                      | 2     | 1    |
| F5    | THERMAL RELAY                         | 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 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    |
| K2B   | AUXILIARY RELAY                       | 12    | 1    |
| K16   | FAN MOTOR CONTACTOR                   | 9     | 1    |
| KM2   | CONTACTOR                             | 12    | 1    |
| KM3   | CONTACTOR                             | 12    | 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    |
| KMC   | POWER FACTOR CORRECTION CONTACTORS    | 12    | 1    |

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 |
|---------|---|-------|------|
| KS      | AUXILIARY RELAY                             | 12    | 1    |
| KT      | AUXILIARY RELAY                             | 13    | 1    |
| KT1     | DELAY RELAY                                 | 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    |
| 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    |
| OP11    | THERMAL RELAY                               | 2     | 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    |
| P1      | PUMP 1                                      | 4     | 1    |
| P2      | PUMP 2                                      | 4     | 1    |
| Q0      | UNIT ON - OFF                               | 8     | 1    |
| Q1      | CIRCUIT SWITCH 1                            | 10    | 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    |
| SCA     | STANDARD CAPACITOR                          | 23    | 1    |
| SCO     | STANDARD COMPRESSOR                         | 23    | 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    |

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    | 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    |
| 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      |
| OP42    | Speedtroll                 |
| OP78-79 | One Centrifugal Pump       |
| OP80-81 | Two Centrifugal Pump       |
| 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   |  |

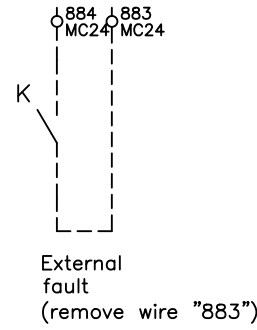
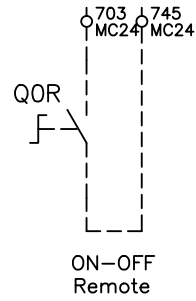
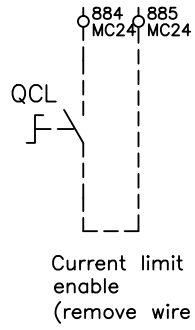
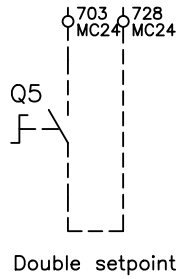
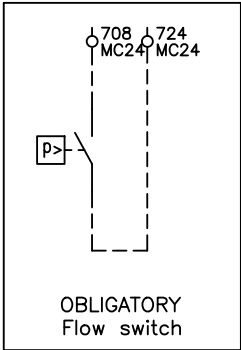
| TRAFO=Transformer size |        |
|------------------------|--------|
| ITEM                   |        |
| T1                     | 500 VA |
| T2                     | 200 VA |

| 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 |

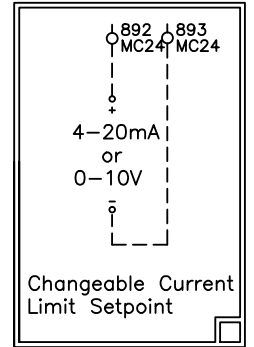
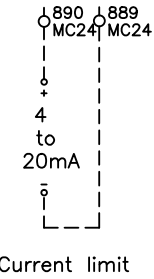
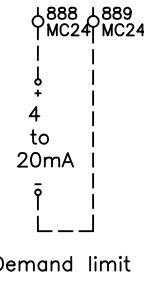
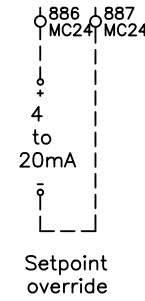
| OP17 Power Factor Correction - Capacitor + Overcurrent |             |             |             |             |             |             |             |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| ITEM   | F3AS-R134a  | F3AL-R134a  | F3BS-R134a  | 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

