

**DIAGRAM**  
ELECTRIC  
HYDRAULIC

**ASCO DRY ICE PELLETIZER  
P15 EVO**

from SN 26-131-001  
[ascoco2.com](http://ascoco2.com)



**Kontakt / Contact:**

**Hauptsitz / Head Office**

ASCO Kohlensäure AG / ASCO CARBONDIOXIDE LTD.  
Hofenstrasse 19, CH-9300 Wittenbach  
T +41 71 466 80 80  
info@ascoco2.com / ascoco2.com  
MwSt / VAT-ID: CHE-107.889.692 MWST

**Betriebsstätte / Production Site**

ASCO Kohlensäure AG  
Sprudelstrasse 3, DE-53557 Bad Honningen  
T +49 2635 92 534-0  
info@ascoco2.com / ascoco2.com  
VAT-ID: DE196946952

**Subsidiary USA**

ASCO CARBON DIOXIDE INC.  
80-4 Industrial Loop North, Orange Park, FL 32073  
T +1 904 374 9590 / Toll free +1 877 633 0996  
usa@ascoco2.com / ascoco2.com/us

Sitz: Wittenbach | Handelsregister: Kanton St. Gallen | Firmen-Nr.: CHE107.889.692 | Präsident des Verwaltungsrates: Adolf Walth | Geschäftsleitung: Ralph Spring (MD)  
Seat: Wittenbach | Commercial register of canton: St. Gallen | Company No.: CHE107.889.692 | Chairman of the Board: Adolf Walth | Management: Ralph Spring (MD)

## ELECTRIC

|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <div data-bbox="323 338 1465 387"> <b>WARNING</b></div> <div data-bbox="323 387 1465 573"><p><b>Risk of injury from electric power!</b></p><p>Changes on the electrical installation on your own are prohibited.</p><p>Changes on the electrical installation, on the program or on its parameters can cause serious damages to the machine and its environment.</p><p>Any change on the control or at the program which is not performed by an ASCO-technician leads to a loss of warranty.</p></div> |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



## SCHWEIZ

ASCO KOHLENSÄURE AG  
Hofenstrasse 19  
9300 Wittenbach  
Schweiz

T +41 71 466 8080  
info@ascoco2.com

## SWITZERLAND

ASCO CARBON DIOXIDE LTD  
Hofenstrasse 19  
9300 Wittenbach  
Schweiz

T +41 71 466 8080  
info@ascoco2.com

## USA

ASCO CARBON DIOXIDE INC.  
80-4 Industrial Loop North  
Orange Park, Florida 32073  
USA

T +1 (904) 374-9590  
usa@ascoco2.com

Project-Nr.:

Project description:

Dry Ice Pelletizer  
P15 EVO / P28 EVO CE US V532

Plant designation:

Degree of protection:

IP 54

Power input:

CE: 3x400 VAC / 50 Hz / 25 A -- US: 3x480 VAC / 60 Hz / 25 A -- 4.8kWh

Control voltage:

24 VDC

Rotary field:

Clockwise

Pre-fuse:

C 25A

short-circuit proof Icp:

6kA

Input lead:

4G4mm<sup>2</sup> at 30°C see cross-section calculation page 4.1

Operating Temperature Range:

5-35°C

|              |            |      |        |            |
|--------------|------------|------|--------|------------|
| V500         | 31.01.2024 | ASCO | Date   | 22.07.2026 |
|              |            |      | Editor |            |
| Modification | Date       | Name |        |            |

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# Structure identifier overview

| Full designation     | Structure description    |
|----------------------|--------------------------|
| Funktionskennzeichen |                          |
| =P15(i)_P28(i)       | Pelletizer P15(i) P28(i) |
| =R85EVO              | Reformer R85EVO          |
| =AUS01               | Parts list               |
| =AUS02               | Summarized parts list    |
| =AUS03               | Cable diagram            |
| =AUS04               | Cable overview           |
| =AUS05               | Klemmleistenübersicht    |
| =AUS06               | Terminal diagram         |
| =AUS07               | Terminal line-up diagram |

| Full designation | Structure description |
|------------------|-----------------------|
| Ortskennzeichen  |                       |
| +SS01            | Control cabinet       |
| +DR              | Door                  |
| +EXT             | External              |
| +CVB             | conveyor belt         |
| +CST             | Customer              |
| +TEIL1           |                       |
|                  |                       |
|                  |                       |
|                  |                       |

Engineering standards

|                                       |           |
|---------------------------------------|-----------|
| Low voltage installation standard:    | NIN       |
| Electrical equipment of machines      | EN60204-1 |
| Switching device combinations:        | EN60439   |
| Symbols for electric circuit diagrams | EN60617   |

Customer-specific standards

color of wires to EN60204-1

|                                                                      |                 |
|----------------------------------------------------------------------|-----------------|
| main circuit:                                                        | black           |
| Neutral conductor:                                                   | white           |
| Protective wire PE:                                                  | green/yellow    |
| Fuctional earth FE:                                                  | green/yellow    |
| Shield SH:                                                           |                 |
| Control voltage AC L (to Transformer):                               | red             |
| Control voltage AC GND (to Transformer),<br>If second wire grounded: | red/white       |
| Control voltage DC +:                                                | dark blue       |
| Control voltage DC GND<br>If second wire grounded:                   | dark blue/white |
| Signal cable Analog:                                                 | grey            |
| External voltage:                                                    | orange          |

color of wires for Cable to DIN47100

|    |              |    |             |    |                    |
|----|--------------|----|-------------|----|--------------------|
| 1  | white (wh)   | 18 | grey-brown  | 35 | green-black        |
| 2  | brown (bn)   | 19 | white-pink  | 36 | yellow-black       |
| 3  | green (gn)   | 20 | pink-brown  | 37 | grey-blue          |
| 4  | yellow (ye)  | 21 | white-blue  | 38 | pink-blue          |
| 5  | grey (gy)    | 22 | brown-blue  | 39 | grey-red           |
| 6  | pink (pk)    | 23 | white-red   | 40 | pink-red           |
| 7  | blue (bu)    | 24 | brown-red   | 41 | grey-black         |
| 8  | red (rd)     | 25 | white-black | 42 | pink-black         |
| 9  | black (bk)   | 26 | brown-black | 43 | blue-black         |
| 10 | violet (vi)  | 27 | grey-green  | 44 | red-black          |
| 11 | grey-pink    | 28 | yellow-grey | 45 | white-brown-black  |
| 12 | red-blue     | 29 | pink-green  | 46 | yellow-green-black |
| 13 | white-green  | 30 | yellow-pink | 47 | grey-pink-black    |
| 14 | brown-green  | 31 | green-blue  | 48 | red-blue-black     |
| 15 | white-yellow | 32 | yellow-blue | 49 | white-green-black  |
| 16 | yellow-brown | 33 | green-red   | 50 | brown-green-black  |
| 17 | white-grey   | 34 | yellow-red  | 51 | white-yellow-black |

| Cable cross section       |            |                   |            |       |
|---------------------------|------------|-------------------|------------|-------|
| Cross-section:            |            | Current load:     |            |       |
| 0.5mm²                    | 3 A        | AWG 24            | (0.21mm²)  | 2 A   |
| 0.75mm²                   | 4 A        | AWG 22            | (0.33mm²)  | 4 A   |
| 1.0mm²                    | 6 A        | AWG 20            | (0.52mm²)  | 6 A   |
| 1.5mm²                    | 10 A       | AWG 19            | (0.65mm²)  | 7 A   |
| 2.5mm²                    | 16 A       | AWG 18            | (0.82mm²)  | 8 A   |
| 4.0mm²                    | 20 A       | AWG 16            | (1.31mm²)  | 10 A  |
| 6.0mm²                    | 25 A       | AWG 14            | (2.08mm²)  | 20 A  |
| 10mm²                     | 40 A (35A) | AWG 12            | (3.32mm²)  | 25 A  |
| 16mm²                     | 63 A (50A) | AWG 10            | (5.26mm²)  | 40 A  |
| 25mm²                     | 80 A       | AWG 8             | (8.35mm²)  | 55 A  |
| 35mm²                     | 100 A      | AWG 6             | (13.30mm²) | 80 A  |
| 50mm²                     | 125 A      | AWG 4             | (21.15mm²) | 105 A |
| 70mm²                     | 160 A      | AWG 3             | (26.67mm²) | 120 A |
| 95mm²                     | 200 A      | AWG 2             | (33.63mm²) | 140 A |
| 120mm²                    | 225 A      | AWG 1             | (42.41mm²) | 165 A |
| 150mm²                    | 250 A      | AWG 0             | (53.48mm²) | 195 A |
| 185mm²                    | 300 A      | AWG 2/0           | (67.43mm²) | 225 A |
| 240mm²                    | 350 A      | AWG 3/0           | (85.03mm²) | 260 A |
|                           |            | AWG 4/0           | (107.2mm²) | 300 A |
| Cross-section calculation |            |                   |            |       |
| Ambient temperature       |            | Conversion factor |            |       |
| 30°C                      | 86°F       | 1.00              |            |       |
| 40°C                      | 104°F      | 0.87              |            |       |
| 45°C                      | 113°F      | 0.79              |            |       |
| 55°C                      | 131°F      | 0.62              |            |       |

| Copper busbar blank |               |
|---------------------|---------------|
| Cross-section:      | Current load: |
| 12 x 2 mm           | 123 A         |
| 15 x 2 mm           | 143 A         |
| 15 x 3 mm           | 197 A         |
| 20 x 2 mm           | 189 A         |
| 20 x 3 mm           | 237 A         |
| 20 x 5 mm           | 319 A         |
| 20 x 10 mm          | 497 A         |
| 25 x 3 mm           | 287 A         |
| 25 x 5 mm           | 384 A         |
| 30 x 3 mm           | 337 A         |
| 30 x 5 mm           | 447 A         |
| 30 x 10 mm          | 676 A         |
| 40 x 3 mm           | 436 A         |
| 40 x 5 mm           | 573 A         |
| 40 x 10 mm          | 850 A         |
| 50 x 5 mm           | 697 A         |
| 50 x 10 mm          | 1020 A        |
| 60 x 5 mm           | 826 A         |
| 60 x 10 mm          | 1180 A        |
| 80 x 5 mm           | 1070 A        |
| 80 x 10 mm          | 1500 A        |
| 100 x 5 mm          | 1300 A        |
| 100 x 10 mm         | 1810 A        |
| 120 x 10 mm         | 2110 A        |
| 160 x 10 mm         | 2700 A        |

| Copper busbar laminated |               |
|-------------------------|---------------|
| Cross-section:          | Current load: |
| 6 x 13.0 x 0.5mm        | 150 A         |
| 6 x 15.5 x 0.8mm        | 290 A         |
| 10 x 24.0 x 1.0mm       | 600 A         |
| 10 x 32.0 x 1.0mm       | 800 A         |
| 10 x 40.0 x 1.0mm       | 950 A         |
| 10 x 50.0 x 1.0mm       | 1000 A        |
| 10 x 63.0 x 1.0mm       | 1240 A        |

| Cable cross section<br>Protective wire |                                     |
|----------------------------------------|-------------------------------------|
| Cross-section Power supply:            | min. Cross-section Protective wire: |
| S ≤ 16mm²                              | S                                   |
| 16mm² < S ≤ 35mm²                      | 16mm²                               |
| S > 35mm²                              | S / 2                               |

# General Project Information and Safety

## General Instructions

This documentation is intended for the set-up and connection of the electric control unit by trained staff. Work on the control unit as well as commissioning and maintenance of the machinery must be carried out by qualified and trained staff.

The connection of the protective earth conductor is to be performed on site in compliance with the local regulations.

After transportation / before commissioning, all screw connections must be tightened (they may have worked loose).

To ensure proper cooling of the electric control unit the operator should regularly check the cooling equipment and clean or replace it if necessary (e.g. filter pads).

Safety-related components may only be replaced with equivalent components.

The present schematic diagram has been compiled using a CAD system. The arrangement of the components / connections must be adhered to precisely when installing the wiring.

## Safety Instructions



### WARNING

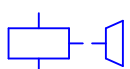
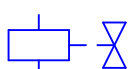
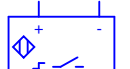
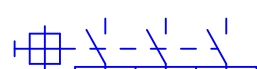
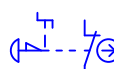
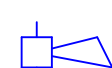
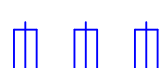
It is not permitted to work on electrically live parts and equipment!

The machine may only be operated if all the protective devices are fitted in place and fully functional.

It is forbidden to remove the protective devices, bypass them or make them inoperative.

Should any of the protective devices show a fault, the machine must be stopped immediately and may only be started up again after repair has been carried out by qualified staff.

## Symbols

|                                                                                     |                                                       |                                                                                     |                                      |                                                                                       |                         |                                                                                       |                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------|---------------------------------------|
|    | Calliper manually operated normally open contact (NO) |    | Pressure - dependent switcher        |    | Engage changer delayed  |    | Lamp                                  |
|    | Calliper manually operated break contact (NC)         |    | foot controlled Switch               |    | Contactor, relay        |    | Electromagnetic break                 |
|    | Key switch with interlock                             |    | Engage normally open contact delayed |    | Contactor, relay        |    | Solenoid valve                        |
|    | Rotary switch with interlock                          |    | Engage break contact element delayed |    | Contactor, relay        |    | Poximity switch normally open contact |
|  | limit switch                                          |  | Engage changer delayed               |  | Operating hours counter |  | Motor overload switch                 |
|  | Emergency - stop switch                               |  | Engage normally open contact delayed |  | LED                     |  | Miniature circuit-breaker             |
|  | Temperature-dependent interruptor                     |  | Engage break contact element delayed |  | horn                    |  | Safety fuse                           |
|  | float switch                                          |  | Engage changer delayed               |  | Siren                   |  | Disconnecter                          |

## Device tag

|          |                                              |
|----------|----------------------------------------------|
| <b>A</b> | Module, assembly                             |
| <b>B</b> | Encoder                                      |
| <b>C</b> | Capacitor, Memory module, Binary element     |
| <b>E</b> | Lighting                                     |
| <b>F</b> | Miniature circuit breakers, fuse             |
| <b>G</b> | Power supply unit, Generator                 |
| <b>K</b> | relay, Filter                                |
| <b>M</b> | Motor                                        |
| <b>P</b> | Measuring instrument, Display, signal device |
| <b>Q</b> | Circuit breaker, Disconnecter, Contactor     |
| <b>R</b> | Resistor, Coil, Semiconductor                |
| <b>S</b> | switch, pushbutton                           |
| <b>T</b> | Converter, amplifier, Controller             |
| <b>W</b> | conductor, Cable                             |
| <b>X</b> | Terminal, Plug                               |
| <b>Y</b> | Valve, Brake, Coupling                       |

|                         |       |        |
|-------------------------|-------|--------|
| Plant Identification    | _____ | =XX    |
| Location identification | _____ | +XX    |
| Resource identification | _____ | -6 K 9 |
| Page number             | _____ |        |
| identifier              | _____ |        |
| Path number             | _____ |        |



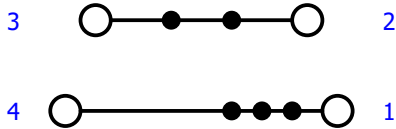
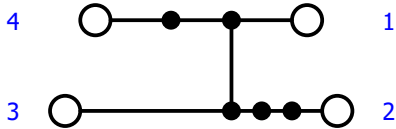
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| V500         | 31.01.2024 | ASCO | Date   | 22.07.2026 |
|              |            |      | Editor |            |
|              |            |      |        |            |
| Modification | Date       | Name |        |            |

|                                                                                                                  |                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>All about CO <sub>2</sub> | ASCO Kohlensäure AG<br>Hofenstrasse 19<br>CH-9300 Wittenbach<br>+41 71 466 80 80<br><a href="http://www.ascoco2.com">http://www.ascoco2.com</a> |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|

|                              |  |
|------------------------------|--|
| Page description:<br>Symbols |  |
|------------------------------|--|

|              |                                                        |                 |
|--------------|--------------------------------------------------------|-----------------|
| Project-No.: | Project designation:                                   | = P15(i)_P28(i) |
|              | <b>Dry Ice Pelletizer P15 EVO / P28 EVO CE US V532</b> | + SS01          |
| Scheme-No.:  | Scheme-No. Customer:                                   | I sh 130        |
|              | Project-No. Customer:                                  | Pg 4.3          |

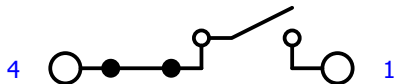
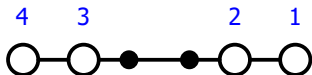
Terminal numbering



Terminal

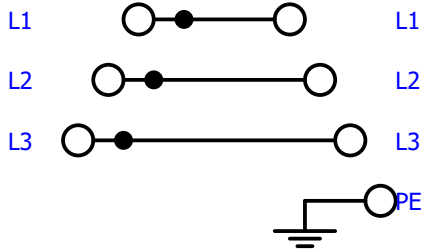
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1



Terminal

1



Terminal

1

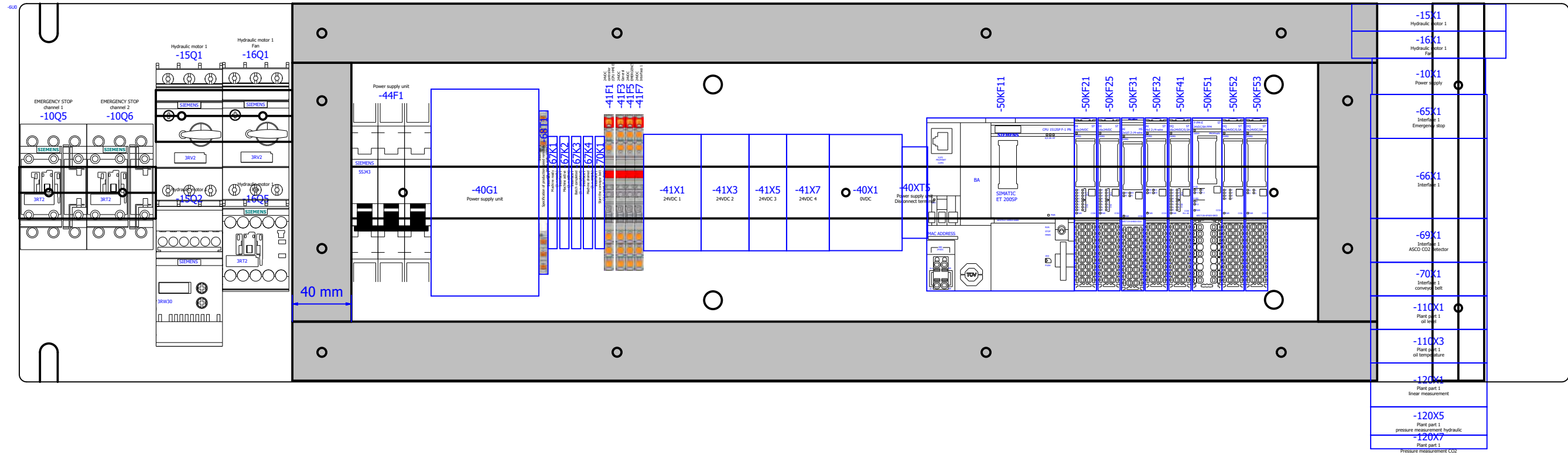
2

3

4

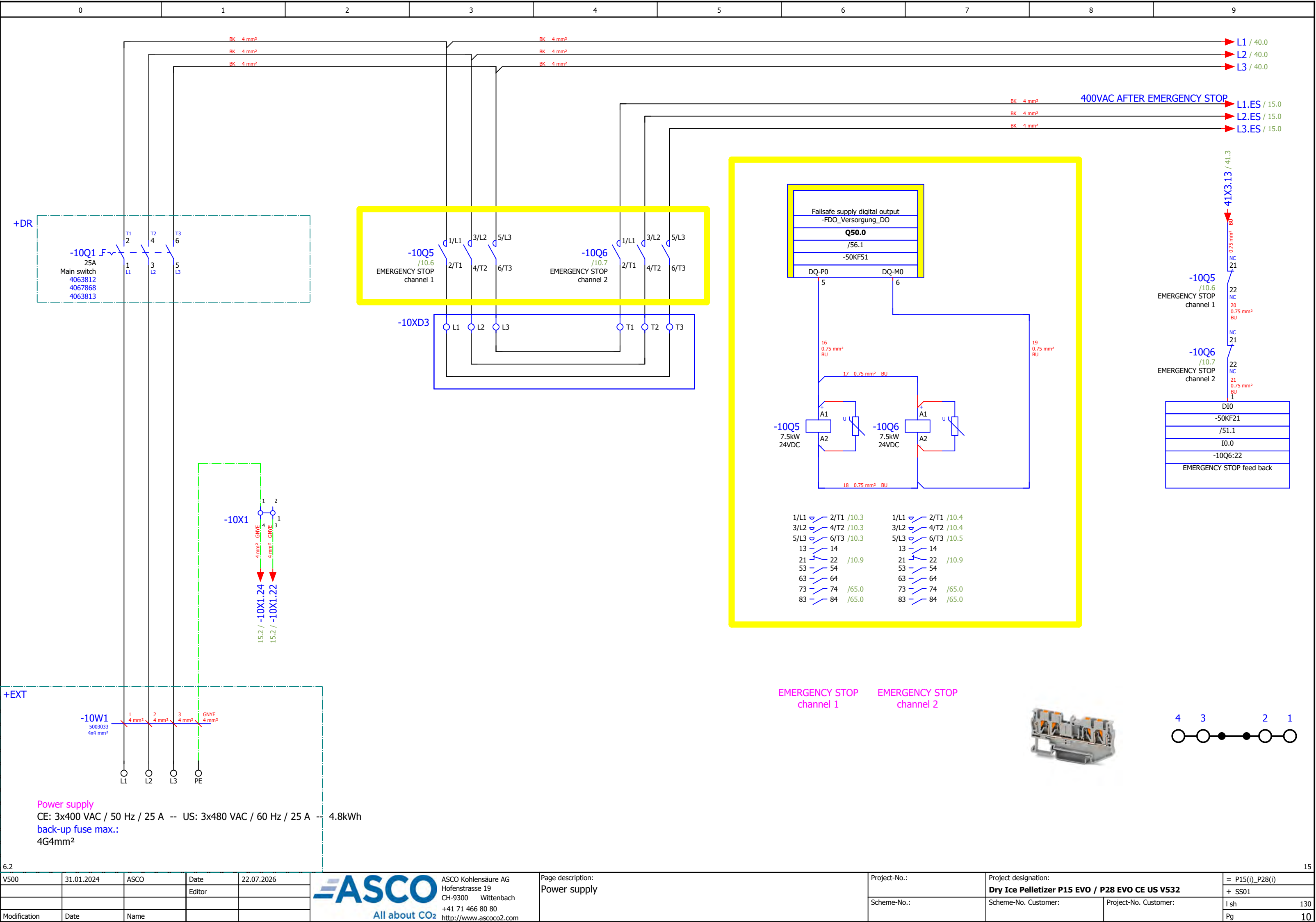


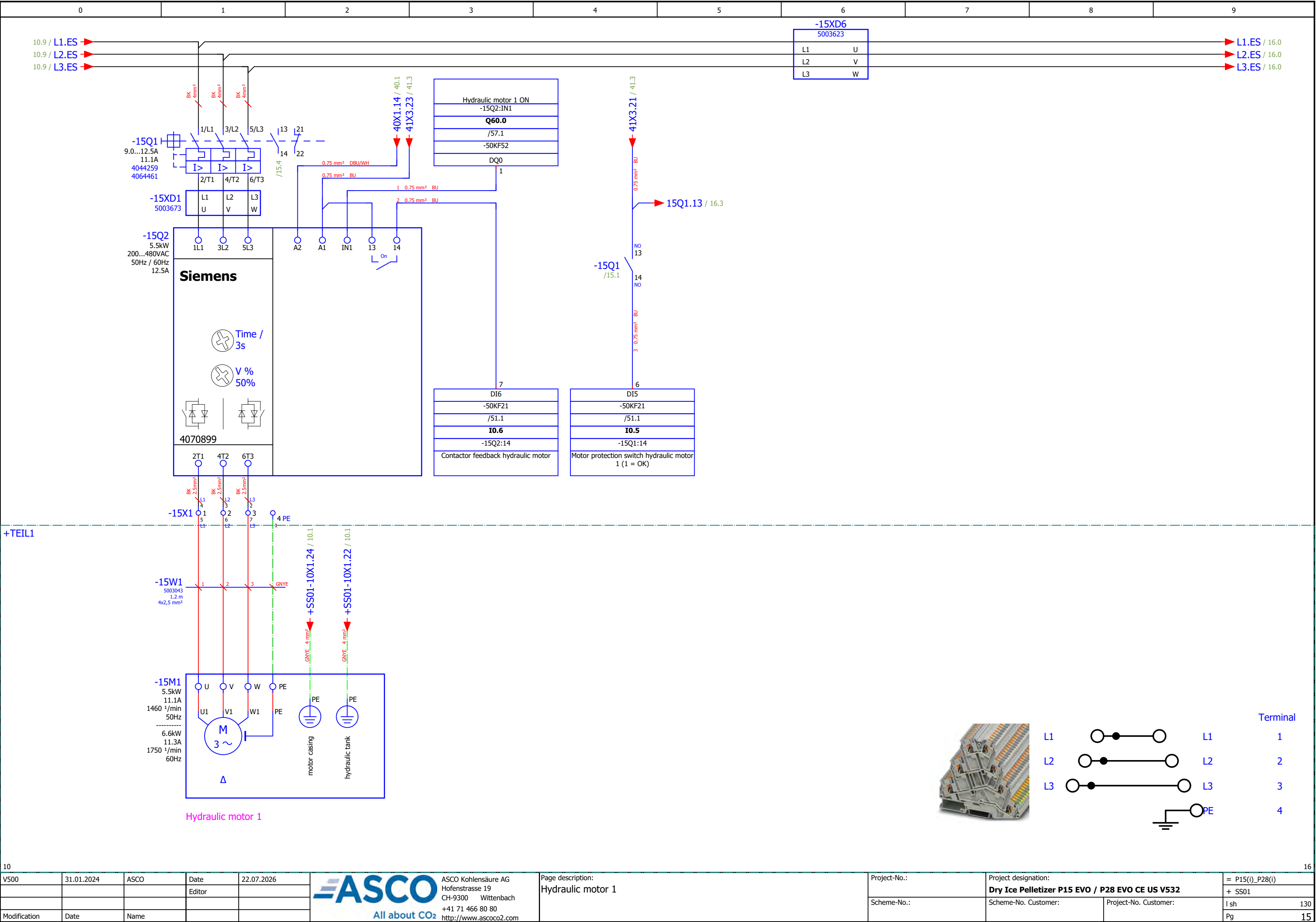
-60U7  
EWO.FLEXY205  
FLEXY 205  
46



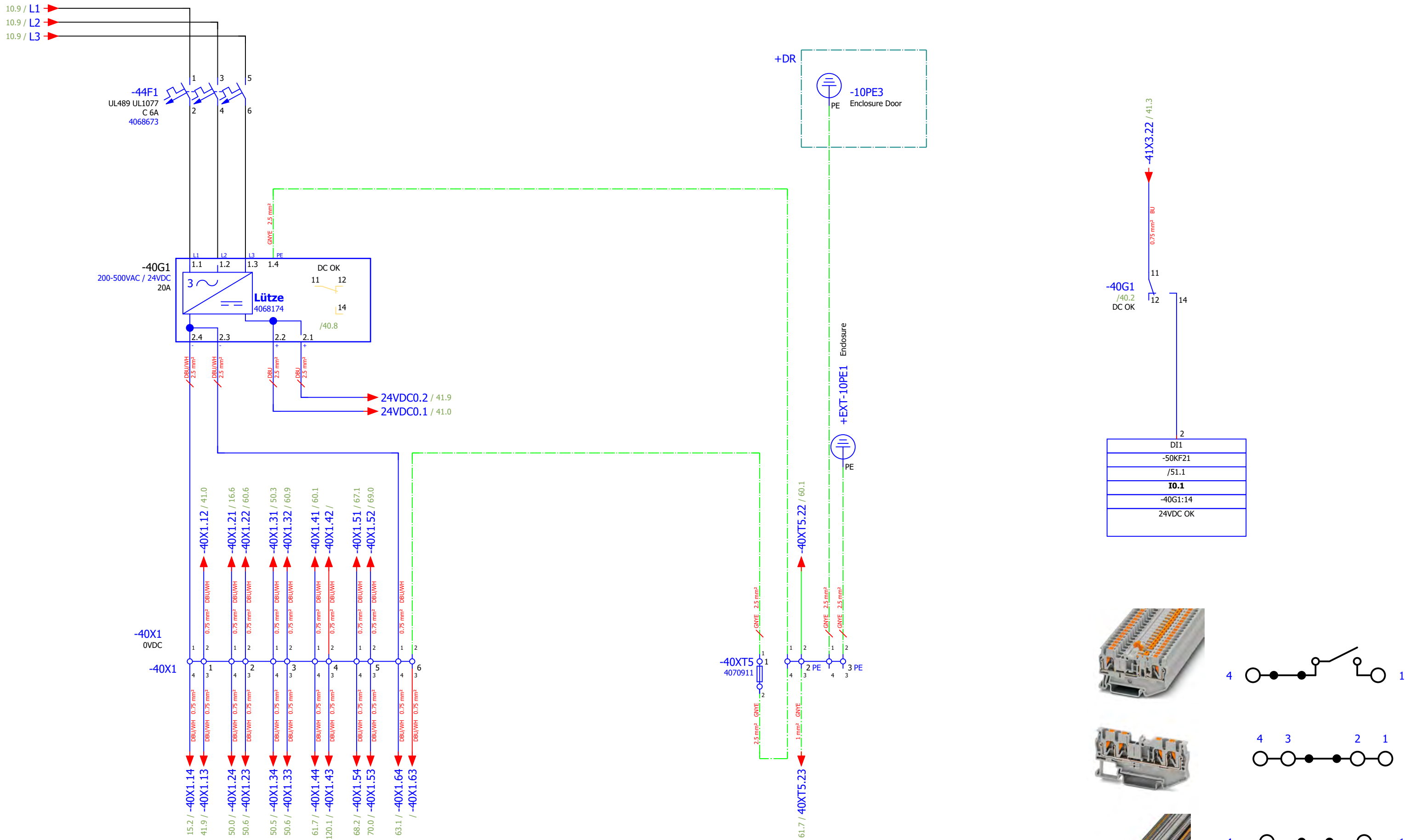
BxH: 1050mmx257mm  
(Standard P15/P28 Montageplatte)



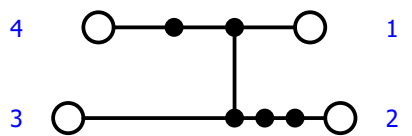
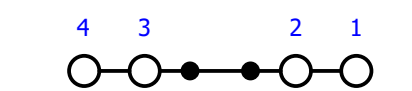
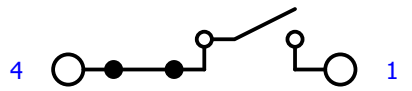


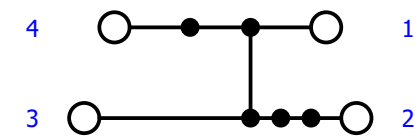


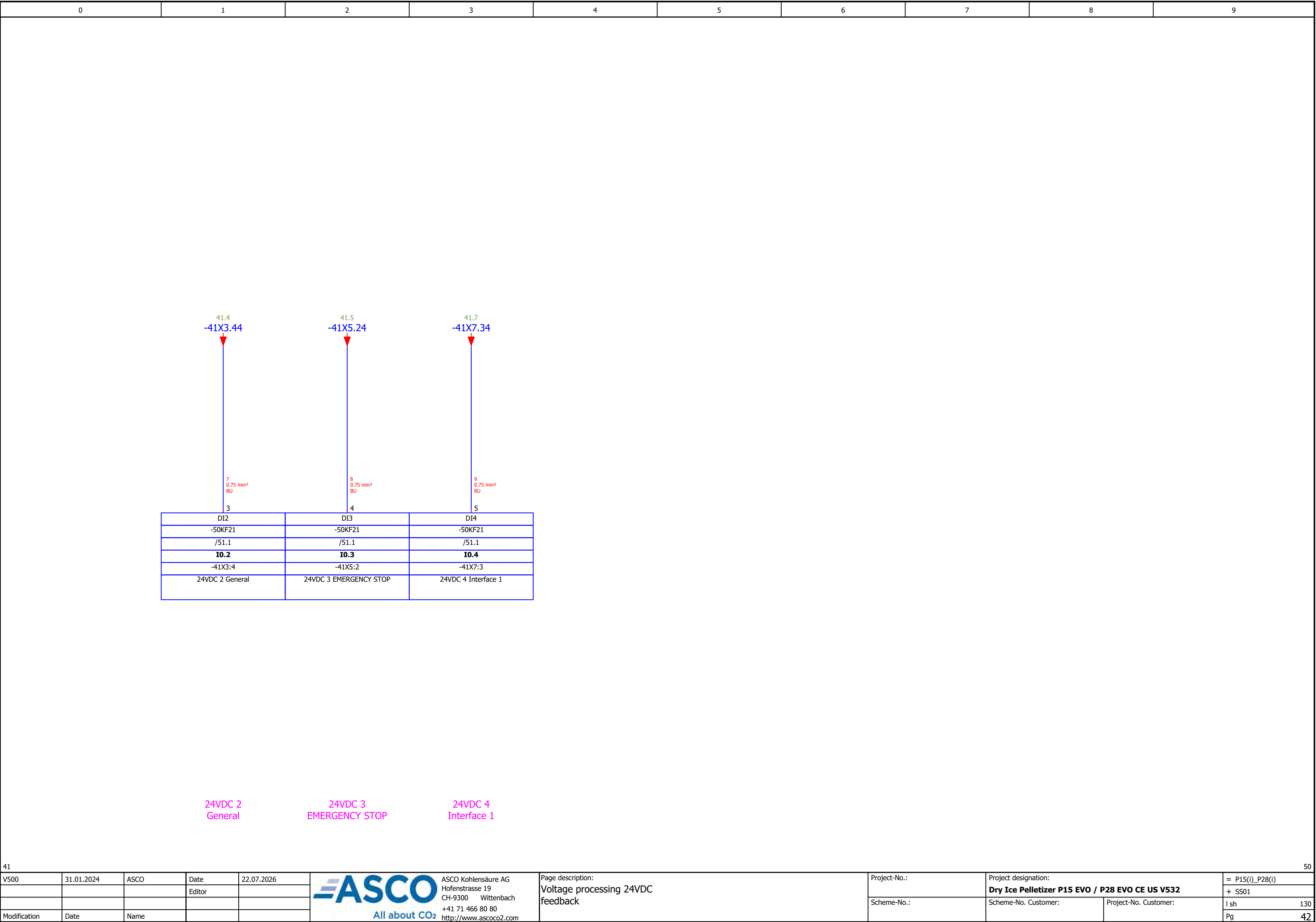




Power supply unit



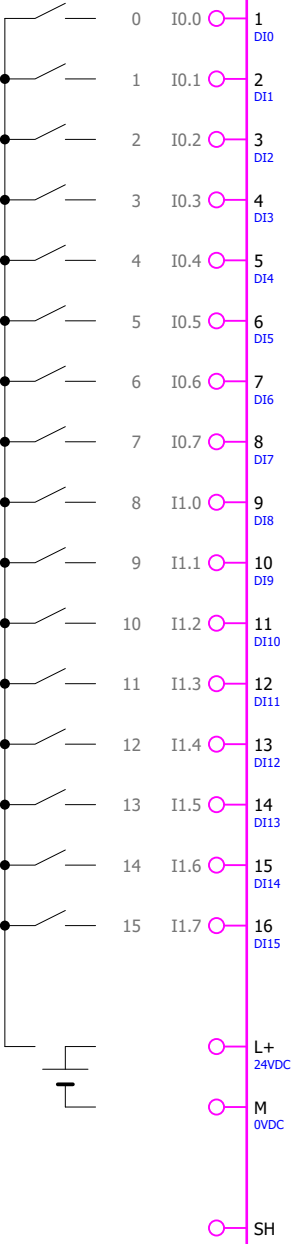






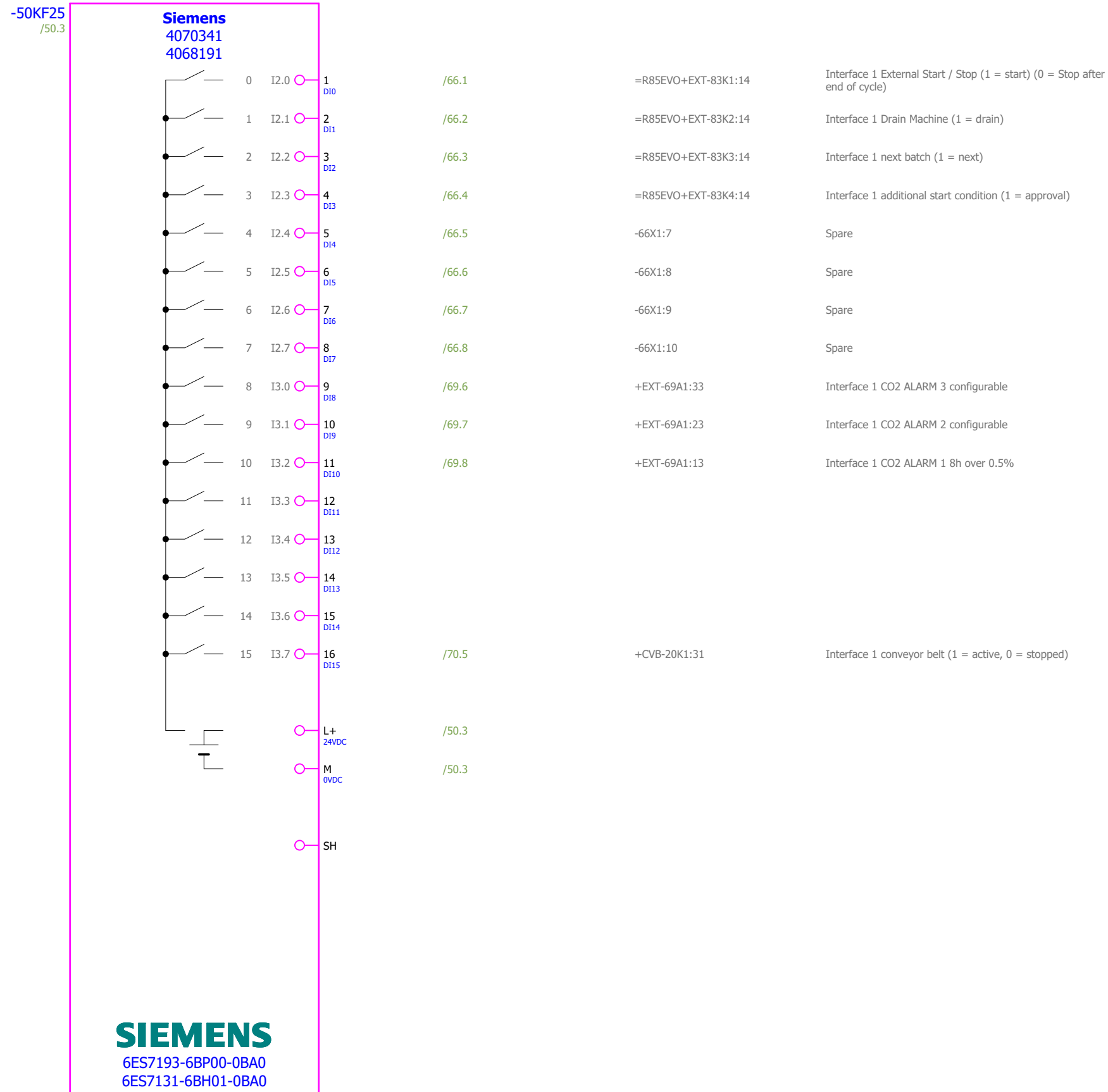
-50KF21  
/50.2

Siemens  
4070341  
4068190



SIEMENS  
6ES7193-6BP00-0DA0  
6ES7131-6BH01-0BA0

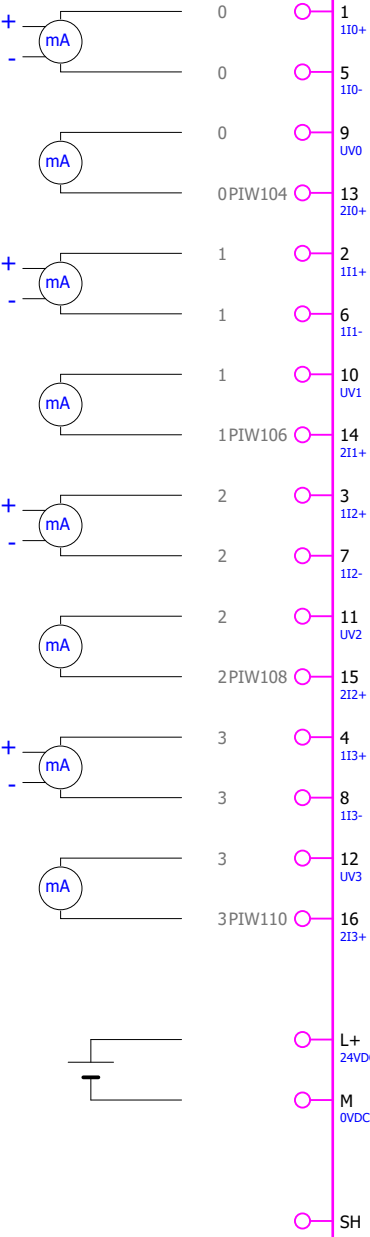
|        |              |                                                                |
|--------|--------------|----------------------------------------------------------------|
| /10.9  | -10Q6:22     | EMERGENCY STOP feed back                                       |
| /40.8  | -40G1:14     | 24VDC OK                                                       |
| /42.1  | -41X3:4      | 24VDC 2 General                                                |
| /42.2  | -41X5:2      | 24VDC 3 EMERGENCY STOP                                         |
| /42.3  | -41X7:3      | 24VDC 4 Interface 1                                            |
| /15.4  | -15Q1:14     | Motor protection switch hydraulic motor 1 (1 = OK)             |
| /15.3  | -15Q2:14     | Contactor feedback hydraulic motor                             |
| /16.3  | -16Q1:14     | hydraulic motor 1 Motor protection switch ventilation (1 = OK) |
| /16.4  | -16Q5:22     | hydraulic motor 1 Contactor feedback ventilation               |
| /60.5  | +DR-60S5:14  | Movement confirmation                                          |
| /16.2  | +EXT-16M1:RD | Hydraulic motor 1 Fan                                          |
| /110.1 | +EXT-110B1:2 | Plant part 1 oil level                                         |
| /110.3 |              | Spare                                                          |
| /110.4 |              | Spare                                                          |





-50KF32  
/50.4

Siemens  
4070340  
4068191



SIEMENS  
6ES7193-6BP00-0BA0  
6ES7134-6GD01-0BA1

Plant part 1 Pressure measurement CO2

Plant part 1 Pressure measurement CO2

Plant part 1 Pressure measurement CO2

Plant part 1 Pressure measurement CO2

Plant part 1 Hydraulic oil temperature

Plant part 1 Hydraulic oil temperature

Plant part 1 Hydraulic oil temperature

Plant part 1 Hydraulic oil temperature

ASCO CO2 Detector

ASCO CO2 Detector

ASCO CO2 Detector

ASCO CO2 Detector

Interface 1 Specification of production speed remotely  
(4...20mA = 0...100%)

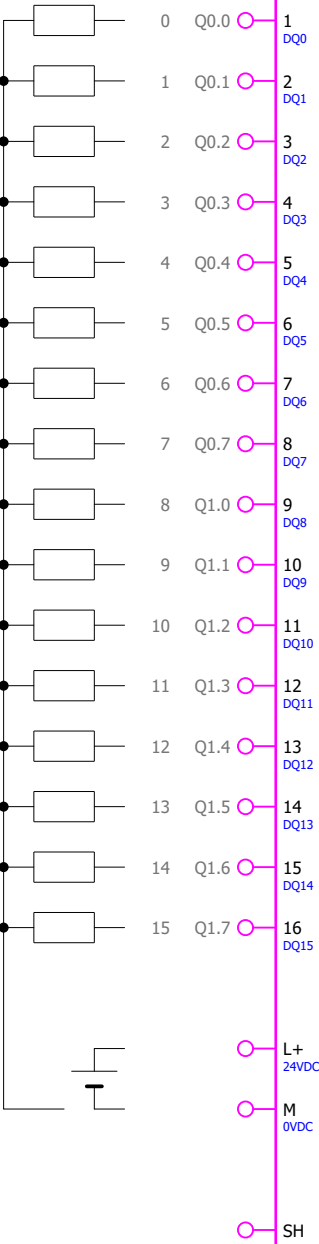
Interface 1 Specification of production speed remotely  
(4...20mA = 0...100%)

Interface 1 Specification of production speed remotely  
(4...20mA = 0...100%)

Interface 1 Specification of production speed remotely  
(4...20mA = 0...100%)

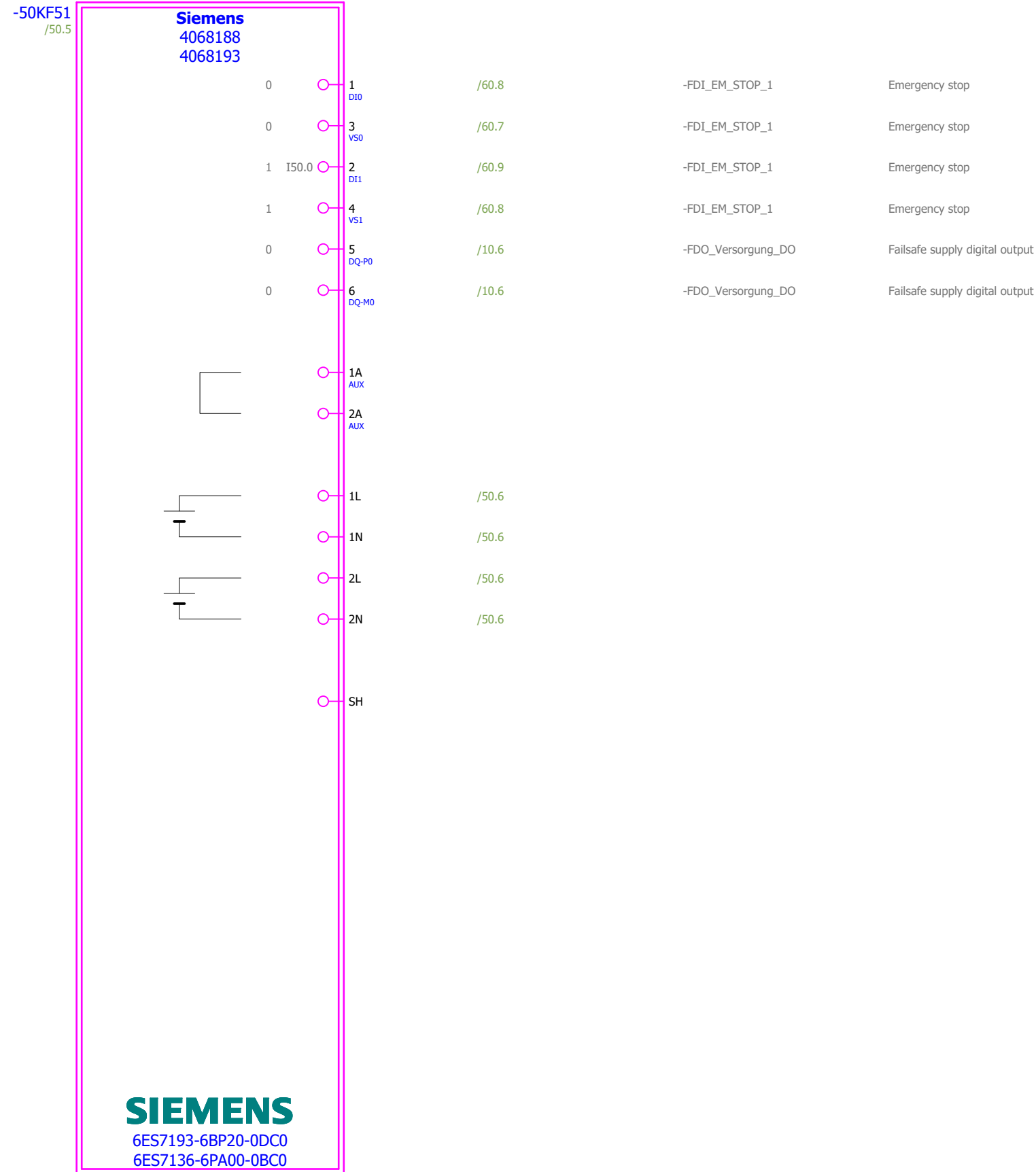
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/50.5

Siemens  
4070342  
4068190

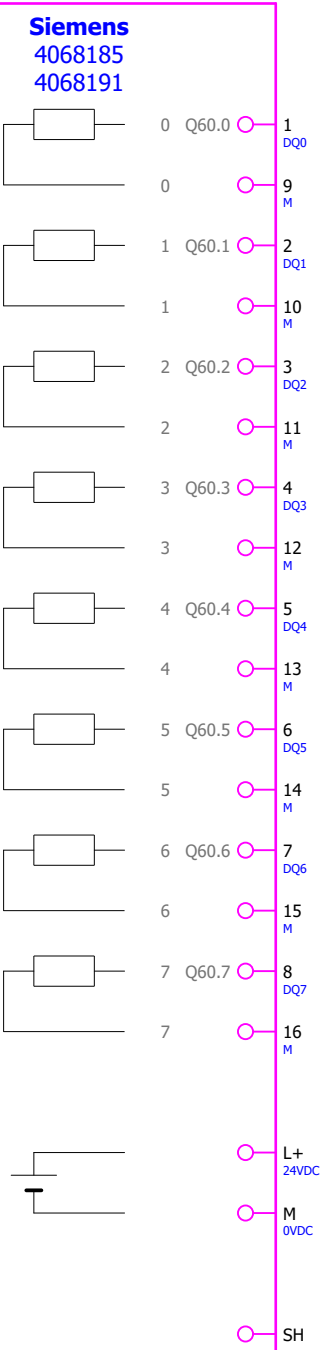


|       |             |                                                           |
|-------|-------------|-----------------------------------------------------------|
| /67.1 | -67K1:A1    | Interface 1 Machine ready (1 = ready)                     |
| /67.2 | -67K2:A1    | Interface 1 Machine active (1 = active)                   |
| /67.3 | -67K3:A1    | Interface 1 Batch completed (1 = completed)               |
| /67.4 | -67K4:A1    | Interface 1 Machine drained (1 = empty)                   |
|       |             |                                                           |
| /70.1 | -70K1:A1    | Interface 1 Start the conveyor belt (1 = start, 0 = stop) |
| /60.6 | +DR-60S5:X1 | Movement confirmation                                     |
| /60.9 | +DR-60S7:X1 | Emergency stop                                            |
| /63.2 | +EXT-63X1:1 | Signal tower blue                                         |
| /63.3 | +EXT-63X1:2 | Signal tower green                                        |
| /63.4 | +EXT-63X1:3 | Signal tower yellow                                       |
| /63.5 | +EXT-63X1:4 | Signal tower red                                          |
| /63.6 | +EXT-63X1:5 | Signal tower Buzzer                                       |

SIEMENS  
6ES7193-6BP00-0DA0  
6ES7132-6BH01-0BA0



-50KF52  
/50.6



/15.3

-15Q2:IN1

Hydraulic motor 1 ON

/16.5

-16Q5:A1

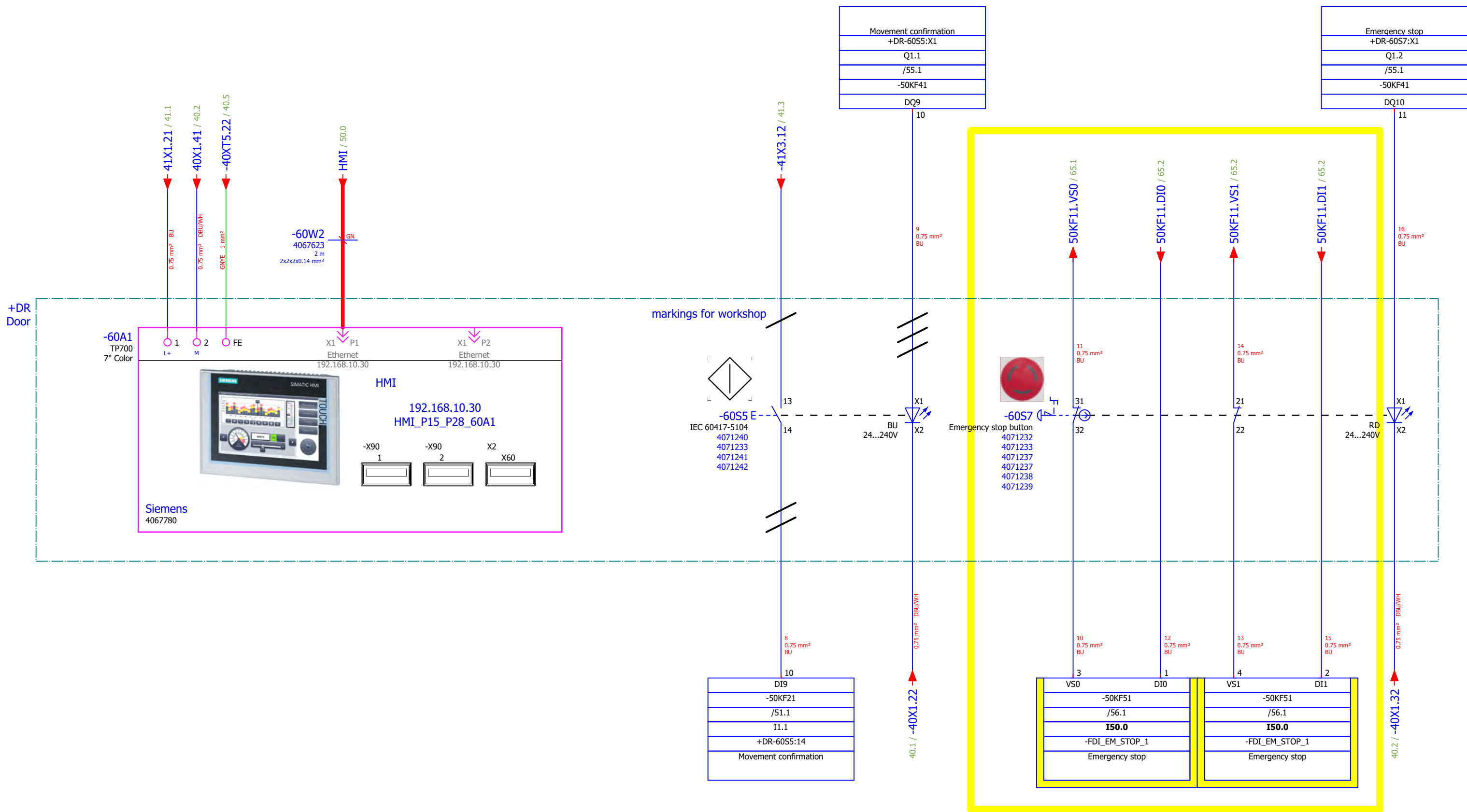
Hydraulic motor 1 Fan

/50.6

/50.7

SIEMENS  
6ES7193-6BP00-0BA0  
6ES7132-6BF01-0BA0

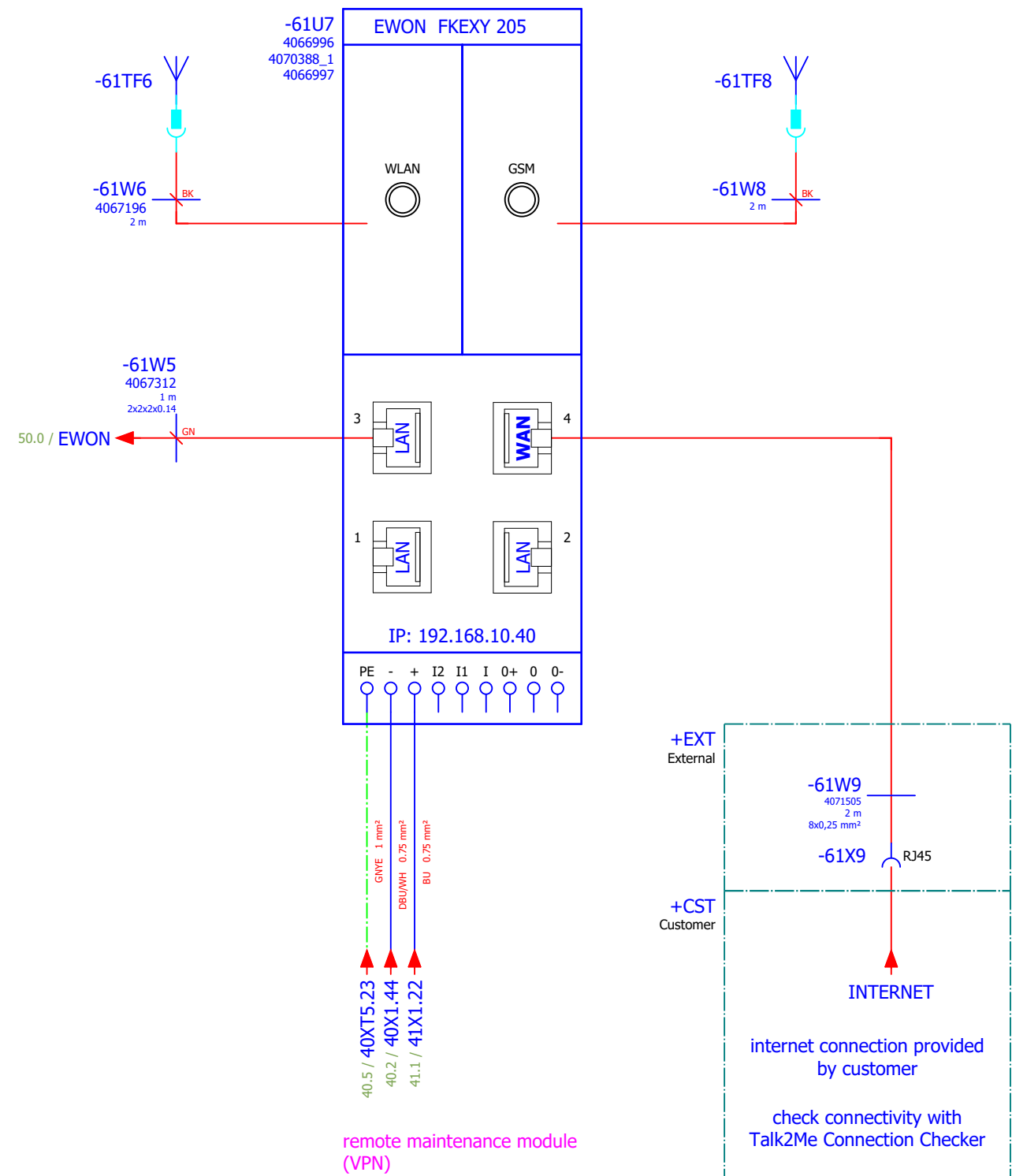




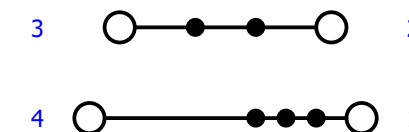
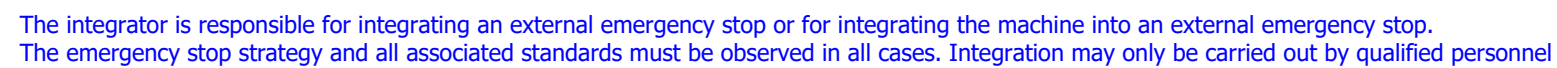
human machine interface (HMI)

Movement confirmation

Emergency stop

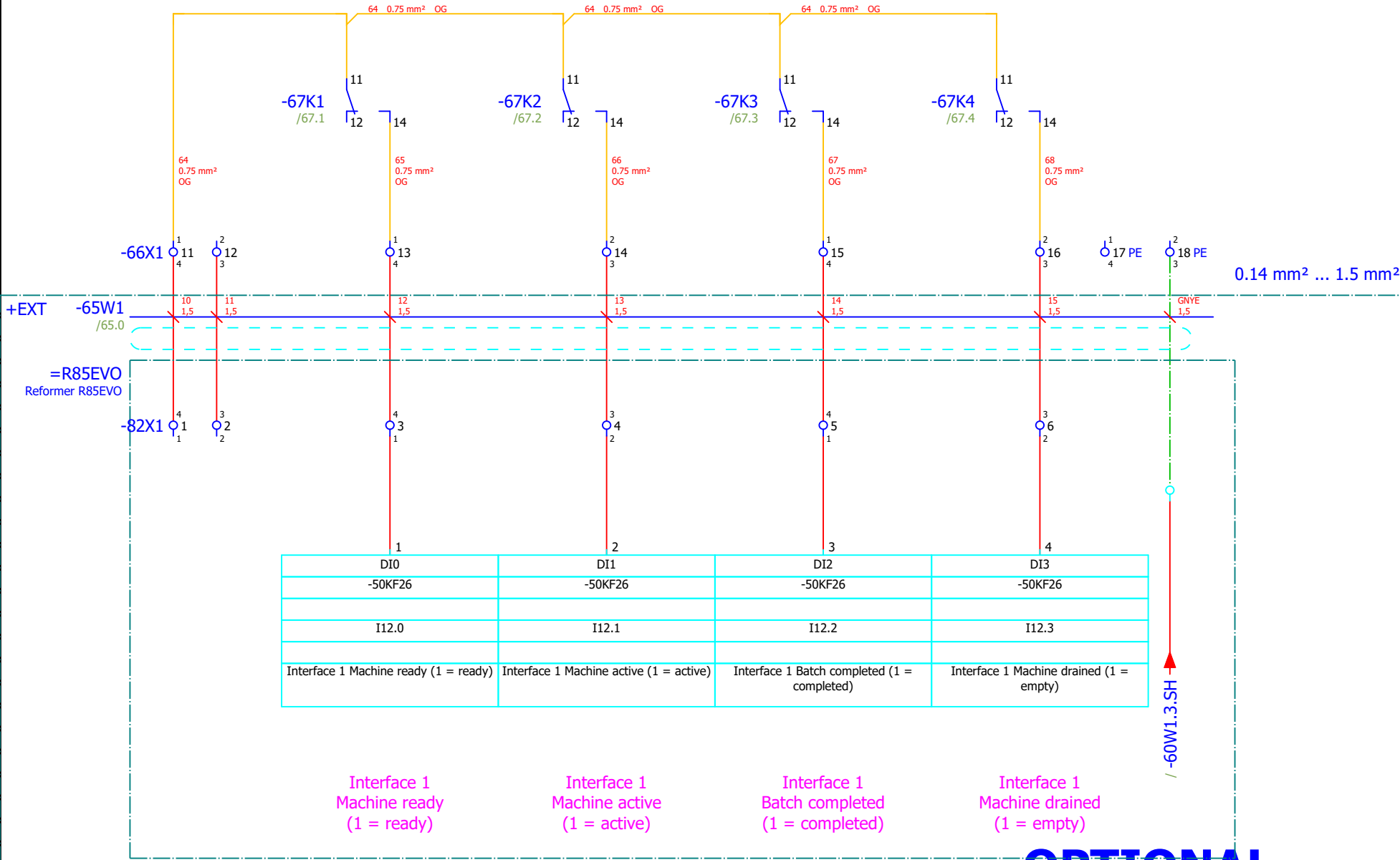
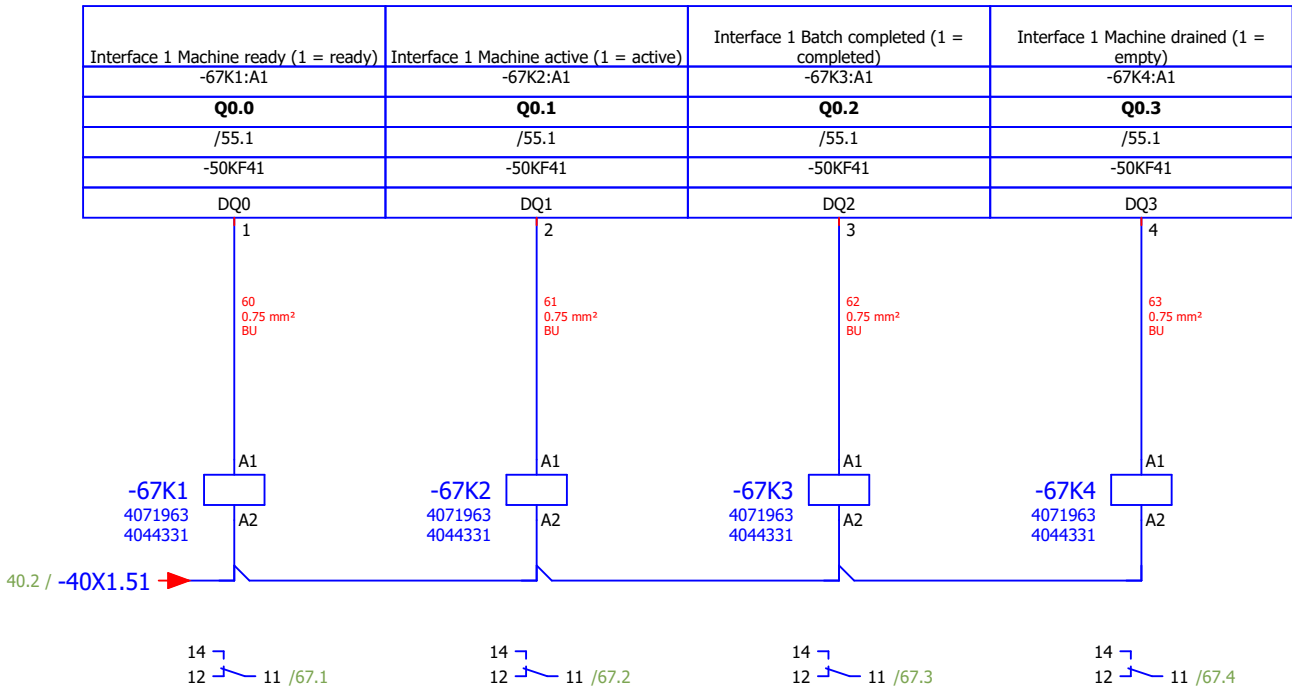




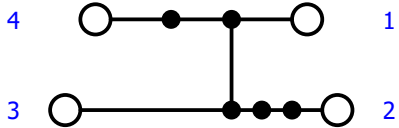


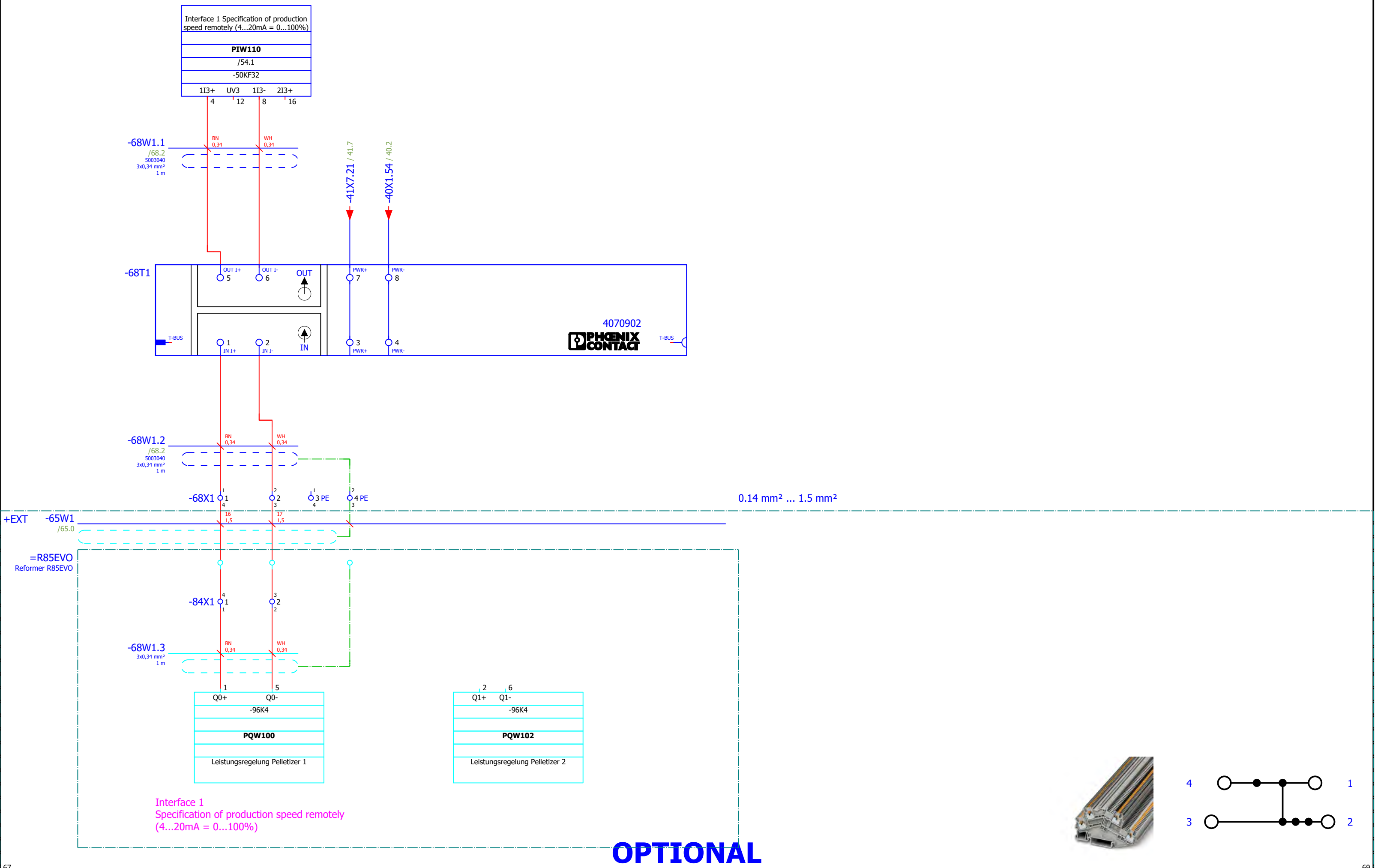
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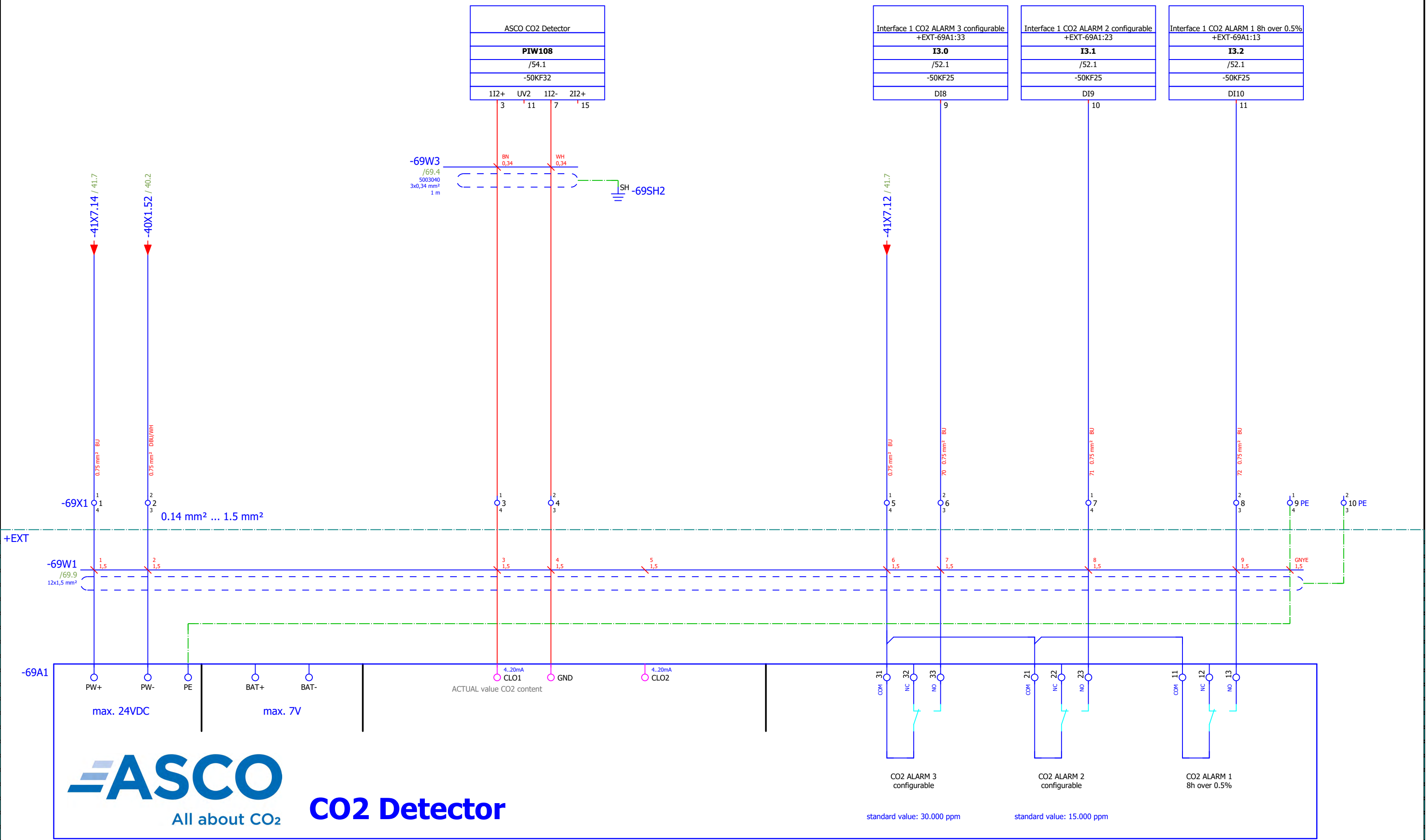




OPTIONAL

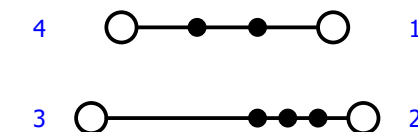




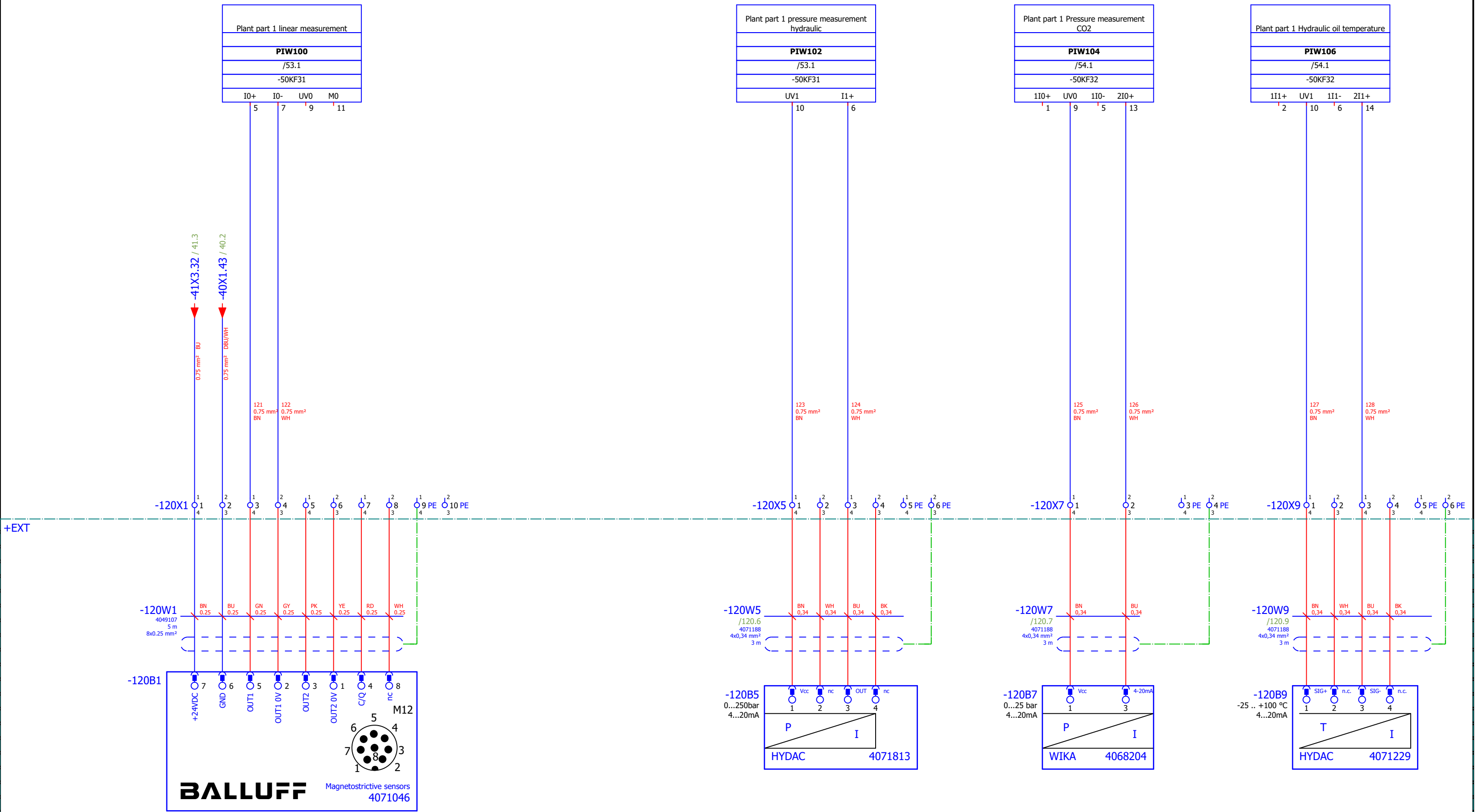


ASCO CO2 Detector  
**not a safety component according to EN 13849-1, EN 62061 (max. PLa)**

Machine stops after end of cycle  
Machine reports without stop  
Machine reports without stop





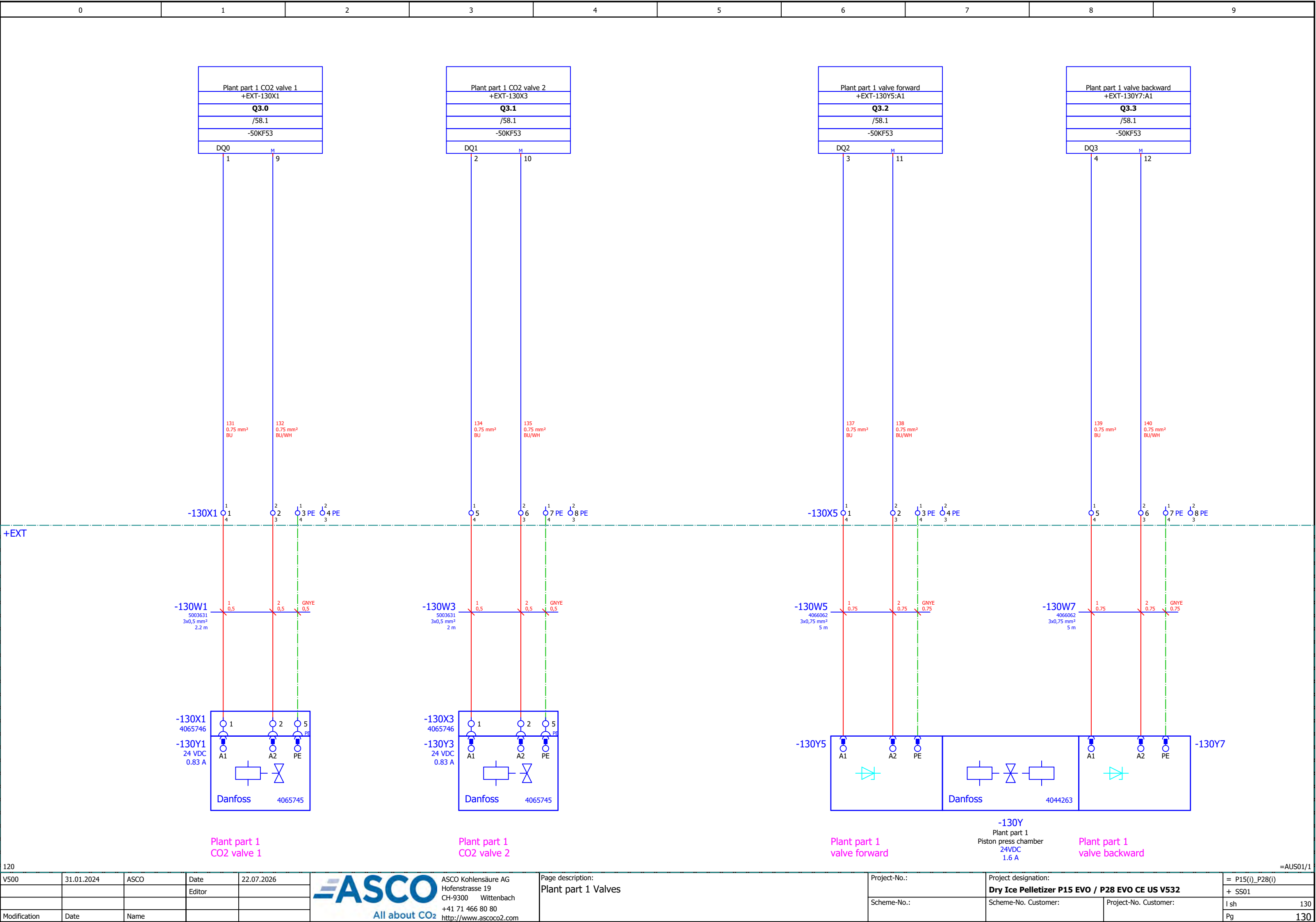


Plant part 1 linear measurement

Plant part 1 pressure measurement hydraulic

Plant part 1 Pressure measurement CO2

Plant part 1 Hydraulic oil temperature



Parts list

| Plant          | Mounting location | Device | Quantity | Designation                                                                | Manufacturer    | Part number | Page  | Remarks |
|----------------|-------------------|--------|----------|----------------------------------------------------------------------------|-----------------|-------------|-------|---------|
| =P15(i)_P28(i) | +SS01             | -6U0   | 0        |                                                                            |                 |             | 6;6.2 |         |
| =P15(i)_P28(i) | +SS01             | -10Q5  | 1        | CONTACTOR,AC3:7,5KW 1NO+1NC DC24V                                          | Siemens         | 4070996     | 10    |         |
| =P15(i)_P28(i) | +SS01             | -10Q5  | 1        | SURGE SUPPRESSOR, VARISTOR,                                                | Siemens         | 5003606     | 10    |         |
| =P15(i)_P28(i) | +SS01             | -10Q5  | 1        | AUX. SWITCH BLOCK , 4NO COND. PATHS: 1NO, 1NO,                             | Siemens         | 4065519     | 10    |         |
| =P15(i)_P28(i) | +SS01             | -10Q6  | 1        | CONTACTOR,AC3:7,5KW 1NO+1NC DC24V                                          | Siemens         | 4070996     | 10    |         |
| =P15(i)_P28(i) | +SS01             | -10Q6  | 1        | SURGE SUPPRESSOR, VARISTOR,                                                | Siemens         | 5003606     | 10    |         |
| =P15(i)_P28(i) | +SS01             | -10Q6  | 1        | AUX. SWITCH BLOCK , 4NO COND. PATHS: 1NO, 1NO,                             | Siemens         | 4065519     | 10    |         |
| =P15(i)_P28(i) | +SS01             | -10X1  | 1        | End bracket for terminal block                                             | WAGO            | 4067670     |       |         |
| =P15(i)_P28(i) | +SS01             | -10X1  | 1        | End and partition plate for terminal block                                 | Phoenix Contact | 5003672     |       |         |
| =P15(i)_P28(i) | +SS01             | -10X1  | 0        |                                                                            |                 |             | 6     |         |
| =P15(i)_P28(i) | +SS01             | -10X1  | 1        | Ground terminal block                                                      | Phoenix Contact | 5003671     | 10    |         |
| =P15(i)_P28(i) | +SS01             | -10XD3 | 1        | Verdrahtungsbaustein unten für Schützkombination Baugröße S0               | Siemens         | 4071480     | 10    |         |
| =P15(i)_P28(i) | +SS01             | -15Q1  | 1        | CIRCUIT-BREAKER SCREW CONNECTION 12.5A                                     | Siemens         | 4044259     | 15    |         |
| =P15(i)_P28(i) | +SS01             | -15Q1  | 1        | TRANSVERSE AUX. SWITCH, 1NO+1NC, SCREW CONNECTION                          | Siemens         | 4064461     | 15    |         |
| =P15(i)_P28(i) | +SS01             | -15Q2  | 1        | SIRIUS SANFTSTARTER, S00,12.5A, 5,5KW/400V, 40GRAD, AC 200-480V, AC/DC 24V | Siemens         | 4070899     | 15    |         |
| =P15(i)_P28(i) | +SS01             | -15X1  | 1        | End bracket for terminal block                                             | WAGO            | 4067670     |       |         |
| =P15(i)_P28(i) | +SS01             | -15X1  | 1        | End and partition plate for terminal block                                 | Phoenix Contact | 5003670     |       |         |
| =P15(i)_P28(i) | +SS01             | -15X1  | 0        |                                                                            |                 |             | 6     |         |
| =P15(i)_P28(i) | +SS01             | -15X1  | 1        | Multi-level terminal block                                                 | Phoenix Contact | 5003669     | 15    |         |
| =P15(i)_P28(i) | +SS01             | -15XD1 | 1        | LINK MODULE 3RV2.1-3RT2.1,3RV2.2-3RT2.2                                    | Siemens         | 5003673     | 15    |         |
| =P15(i)_P28(i) | +SS01             | -15XD6 | 1        | 3-PHASE BUSBARS                                                            | Siemens         | 5003623     | 15    |         |
| =P15(i)_P28(i) | +SS01             | -16Q1  | 1        | CIRCUIT-BREAKER SCREW CONNECTION 0.32A                                     | Siemens         | 4071000     | 16    |         |
| =P15(i)_P28(i) | +SS01             | -16Q1  | 1        | TRANSVERSE AUX. SWITCH, 1NO+1NC, SCREW CONNECTION                          | Siemens         | 4064461     | 16    |         |
| =P15(i)_P28(i) | +SS01             | -16Q5  | 1        | CONTACTOR,AC3:3KW 1NC DC24V                                                | Siemens         | 4070997     | 16    |         |
| =P15(i)_P28(i) | +SS01             | -16Q5  | 1        | SURGE SUPPRESSOR, VARISTOR,                                                | Siemens         | 4044411     | 16    |         |
| =P15(i)_P28(i) | +SS01             | -16X1  | 1        | End bracket for terminal block                                             | WAGO            | 4067670     |       |         |
| =P15(i)_P28(i) | +SS01             | -16X1  | 1        | End and partition plate for terminal block                                 | Phoenix Contact | 5003670     |       |         |
| =P15(i)_P28(i) | +SS01             | -16X1  | 0        |                                                                            |                 |             | 6     |         |

Parts list

| Plant          | Mounting location | Device | Quantity | Designation                                              | Manufacturer    | Part number | Page | Remarks |
|----------------|-------------------|--------|----------|----------------------------------------------------------|-----------------|-------------|------|---------|
| =P15(i)_P28(i) | +SS01             | -16X1  | 1        | Multi-level terminal block                               | Phoenix Contact | 5003669     | 16   |         |
| =P15(i)_P28(i) | +SS01             | -16X1  | 1        | Feed-through terminal block                              | Phoenix Contact | 4067865     | 16   |         |
| =P15(i)_P28(i) | +SS01             | -16XD1 | 1        | LINK MODULE F.3RV S00/S0, 3RT S00                        | Siemens         | 4065520     | 16   |         |
| =P15(i)_P28(i) | +SS01             | -40G1  | 1        | Stromversorgung, 3-phasig                                | Lütze           | 4068174     | 40   |         |
| =P15(i)_P28(i) | +SS01             | -40X1  | 1        | End and partition plate for terminal block               | Phoenix Contact | 4067867     | 40   |         |
| =P15(i)_P28(i) | +SS01             | -40X1  | 0        |                                                          |                 |             | 6    |         |
| =P15(i)_P28(i) | +SS01             | -40X1  | 6        | Feed-through terminal block                              | Phoenix Contact | 4070909     | 40   |         |
| =P15(i)_P28(i) | +SS01             | -40XT5 | 1        | End bracket for terminal block                           | WAGO            | 4067670     |      |         |
| =P15(i)_P28(i) | +SS01             | -40XT5 | 1        | End and partition plate for terminal block               | Phoenix Contact | 4070910     |      |         |
| =P15(i)_P28(i) | +SS01             | -40XT5 | 1        | End and partition plate for terminal block               | Phoenix Contact | 5003672     |      |         |
| =P15(i)_P28(i) | +SS01             | -40XT5 | 0        |                                                          |                 |             | 6    |         |
| =P15(i)_P28(i) | +SS01             | -40XT5 | 1        | Disconnect and test disconnect rail-mount terminal block | Phoenix Contact | 4070911     | 40   |         |
| =P15(i)_P28(i) | +SS01             | -40XT5 | 2        | Ground terminal block                                    | Phoenix Contact | 5003671     | 40   |         |
| =P15(i)_P28(i) | +SS01             | -41F1  | 1        | Electronic device circuit breaker                        | Phoenix Contact | 4065857     | 41   |         |
| =P15(i)_P28(i) | +SS01             | -41F3  | 1        | Electronic device circuit breaker                        | Phoenix Contact | 4065857     | 41   |         |
| =P15(i)_P28(i) | +SS01             | -41F5  | 1        | Electronic device circuit breaker                        | Phoenix Contact | 4065857     | 41   |         |
| =P15(i)_P28(i) | +SS01             | -41F7  | 1        | Electronic device circuit breaker                        | Phoenix Contact | 4065857     | 41   |         |
| =P15(i)_P28(i) | +SS01             | -41U0  | 1        | Cross-connector for terminal block                       | Phoenix Contact | 4071001     |      |         |
| =P15(i)_P28(i) | +SS01             | -41X1  | 1        | End bracket for terminal block                           | WAGO            | 4067670     | 41   |         |
| =P15(i)_P28(i) | +SS01             | -41X1  | 1        | End and partition plate for terminal block               | Phoenix Contact | 4067867     | 41   |         |
| =P15(i)_P28(i) | +SS01             | -41X1  | 1        | Cross-connector for terminal block                       | Phoenix Contact | 4070908     | 41   |         |
| =P15(i)_P28(i) | +SS01             | -41X1  | 0        |                                                          |                 |             | 6    |         |
| =P15(i)_P28(i) | +SS01             | -41X1  | 3        | Feed-through terminal block                              | Phoenix Contact | 4070909     | 41   |         |
| =P15(i)_P28(i) | +SS01             | -41X3  | 1        | End and partition plate for terminal block               | Phoenix Contact | 4067867     | 41   |         |
| =P15(i)_P28(i) | +SS01             | -41X3  | 1        | Cross-connector for terminal block                       | Phoenix Contact | 4070908     | 41   |         |
| =P15(i)_P28(i) | +SS01             | -41X3  | 0        |                                                          |                 |             | 6    |         |
| =P15(i)_P28(i) | +SS01             | -41X3  | 4        | Feed-through terminal block                              | Phoenix Contact | 4070909     | 41   |         |
| =P15(i)_P28(i) | +SS01             | -41X5  | 1        | End and partition plate for terminal block               | Phoenix Contact | 4067867     | 41   |         |

Parts list

| Plant          | Mounting location | Device  | Quantity | Designation                                    | Manufacturer    | Part number | Page | Remarks |
|----------------|-------------------|---------|----------|------------------------------------------------|-----------------|-------------|------|---------|
| =P15(i)_P28(i) | +SS01             | -41X5   | 1        | Cross-connector for terminal block             | Phoenix Contact | 4070908     | 41   |         |
| =P15(i)_P28(i) | +SS01             | -41X5   | 0        |                                                |                 |             | 6    |         |
| =P15(i)_P28(i) | +SS01             | -41X5   | 2        | Feed-through terminal block                    | Phoenix Contact | 4070909     | 41   |         |
| =P15(i)_P28(i) | +SS01             | -41X7   | 1        | End and partition plate for terminal block     | Phoenix Contact | 4067867     | 41   |         |
| =P15(i)_P28(i) | +SS01             | -41X7   | 1        | Cross-connector for terminal block             | Phoenix Contact | 4070908     | 41   |         |
| =P15(i)_P28(i) | +SS01             | -41X7   | 0        |                                                |                 |             | 6    |         |
| =P15(i)_P28(i) | +SS01             | -41X7   | 3        | Feed-through terminal block                    | Phoenix Contact | 4070909     | 41   |         |
| =P15(i)_P28(i) | +SS01             | -44F1   | 1        | CIRCUIT BREAKER 10KA, 3POLE, C, 6A             | Siemens         | 4068673     | 40   |         |
| =P15(i)_P28(i) | +SS01             | -50A2   | 1        | ET 200SP, BA 2XRJ45                            | Siemens         | 4068181     | 50   |         |
| =P15(i)_P28(i) | +SS01             | -50A3   | 1        | SIMATIC S7 Memory card 24 MB For S7-1x00 CPU   | Siemens         | 4068182     | 50   |         |
| =P15(i)_P28(i) | +SS01             | -50KF11 | 1        | CPU 1512SP F-1 PN, 600KB Prog., 2MB Data       | Siemens         | 4068180     | 50   |         |
| =P15(i)_P28(i) | +SS01             | -50KF21 | 1        | SIMATIC ET 200SP DI 16x 24V DC ST, PU 1        | Siemens         | 4070341     | 50   |         |
| =P15(i)_P28(i) | +SS01             | -50KF21 | 1        | SIMATIC ET 200SP BU type A0 BU15-P16+A0+2D     | Siemens         | 4068190     | 50   |         |
| =P15(i)_P28(i) | +SS01             | -50KF25 | 1        | SIMATIC ET 200SP DI 16x 24V DC ST, PU 1        | Siemens         | 4070341     | 50   |         |
| =P15(i)_P28(i) | +SS01             | -50KF25 | 1        | SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B     | Siemens         | 4068191     | 50   |         |
| =P15(i)_P28(i) | +SS01             | -50KF31 | 1        | SIMATIC ET 200SP AI 2xU/I 2-/4-wire HS         | Siemens         | 5003628     | 50   |         |
| =P15(i)_P28(i) | +SS01             | -50KF31 | 1        | SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B     | Siemens         | 4068191     | 50   |         |
| =P15(i)_P28(i) | +SS01             | -50KF32 | 1        | SIMATIC ET 200SP AI 4xI 2-/4-wire ST           | Siemens         | 4070340     | 50   |         |
| =P15(i)_P28(i) | +SS01             | -50KF32 | 1        | SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B     | Siemens         | 4068191     | 50   |         |
| =P15(i)_P28(i) | +SS01             | -50KF41 | 1        | SIMATIC ET 200SP DQ 16x24 VDC/0.5 A ST         | Siemens         | 4070342     | 50   |         |
| =P15(i)_P28(i) | +SS01             | -50KF41 | 1        | SIMATIC ET 200SP BU type A0 BU15-P16+A0+2D     | Siemens         | 4068190     | 50   |         |
| =P15(i)_P28(i) | +SS01             | -50KF51 | 1        | SIMATIC ET 200SP F-PM-E 24 V DC/8 A PPM ST     | Siemens         | 4068188     | 50   |         |
| =P15(i)_P28(i) | +SS01             | -50KF51 | 1        | SIMATIC ET 200SP BU type C0 BU20-P6+A2+4D PU 1 | Siemens         | 4068193     | 50   |         |
| =P15(i)_P28(i) | +SS01             | -50KF52 | 1        | SIMATIC ET 200SP DQ 8x24VDC/0.5A ST            | Siemens         | 4068185     | 50   |         |
| =P15(i)_P28(i) | +SS01             | -50KF52 | 1        | SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B     | Siemens         | 4068191     | 50   |         |
| =P15(i)_P28(i) | +SS01             | -50KF53 | 1        | SIMATIC ET 200SP DQ 4x24VDC/2A ST PU 1         | Siemens         | 4071897     | 50   |         |
| =P15(i)_P28(i) | +SS01             | -50KF53 | 1        | SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B     | Siemens         | 4068191     | 50   |         |
| =P15(i)_P28(i) | +SS01             | -60U7   | 1        | Fernwartungsmodul                              | EWON            | 4066996     | 6    |         |

Parts list

| Plant          | Mounting location | Device  | Quantity | Designation                                      | Manufacturer    | Part number | Page  | Remarks |
|----------------|-------------------|---------|----------|--------------------------------------------------|-----------------|-------------|-------|---------|
| =P15(i)_P28(i) | +SS01             | -60W2   | 1        | Patch-Kabel LAN RJ45                             | GIGAMEDIA       | 4067623     | 60    |         |
| =P15(i)_P28(i) | +SS01             | -61TF6  | 0        |                                                  |                 |             | 61    |         |
| =P15(i)_P28(i) | +SS01             | -61TF8  | 0        |                                                  |                 |             | 61    |         |
| =P15(i)_P28(i) | +SS01             | -61U7   | 1        | Fernwartungsmodul                                | EWON            | 4066996     | 61    |         |
| =P15(i)_P28(i) | +SS01             | -61U7   | 1        | GSM Modul für Fernwartung                        | EWON            | 4070388_1   | 61    |         |
| =P15(i)_P28(i) | +SS01             | -61U7   | 1        | WLAN module for remote maintenance               | EWON            | 4066997     | 61    |         |
| =P15(i)_P28(i) | +SS01             | -61W5   | 1        | Patch-Kabel LAN RJ45                             | GIGAMEDIA       | 4067312     | 61    |         |
| =P15(i)_P28(i) | +SS01             | -61W6   | 1        | Kabel zur WLAN Antenne 2m                        | EWON            | 4067196     | 61    |         |
| =P15(i)_P28(i) | +SS01             | -61W8   | 1        | Kabel zur 4G Antenne 3m                          | EWON            |             | 61    |         |
| =P15(i)_P28(i) | +SS01             | -63W2.1 | 1        | Assembled sensor actuator-line                   | Murrelektronik  | 4071269     | 63    |         |
| =P15(i)_P28(i) | +SS01             | -63X2   | 0        |                                                  |                 |             | 63    |         |
| =P15(i)_P28(i) | +SS01             | -65X1   | 1        | End bracket for terminal block                   | WAGO            | 4067670     |       |         |
| =P15(i)_P28(i) | +SS01             | -65X1   | 2        | End and partition plate for terminal block       | Phoenix Contact | 4067867     |       |         |
| =P15(i)_P28(i) | +SS01             | -65X1   | 0        |                                                  |                 |             | 6     |         |
| =P15(i)_P28(i) | +SS01             | -65X1   | 4        | Feed-through terminal block                      | Phoenix Contact | 4067865     | 65    |         |
| =P15(i)_P28(i) | +SS01             | -65X1   | 1        | Ground terminal block                            | Phoenix Contact | 4067866     | 65    |         |
| =P15(i)_P28(i) | +SS01             | -66X1   | 1        | End bracket for terminal block                   | WAGO            | 4067670     |       |         |
| =P15(i)_P28(i) | +SS01             | -66X1   | 1        | End and partition plate for terminal block       | Phoenix Contact | 4067867     |       |         |
| =P15(i)_P28(i) | +SS01             | -66X1   | 0        |                                                  |                 |             | 6     |         |
| =P15(i)_P28(i) | +SS01             | -66X1   | 8        | Feed-through terminal block                      | Phoenix Contact | 4067865     | 66;67 |         |
| =P15(i)_P28(i) | +SS01             | -66X1   | 1        | Ground terminal block                            | Phoenix Contact | 4067866     | 67    |         |
| =P15(i)_P28(i) | +SS01             | -67K1   | 1        | Coupling relay, 1 changeover contact, 6A, 250VAC | Finder          | 4071963     | 67    |         |
| =P15(i)_P28(i) | +SS01             | -67K1   | 1        | Socket, 12...24VDC, 1 Pole 6A, screw terminal    | Finder          | 4044331     | 67    |         |
| =P15(i)_P28(i) | +SS01             | -67K1   | 1        | Relay interface module                           | Finder          | 4063743     | 6     |         |
| =P15(i)_P28(i) | +SS01             | -67K2   | 1        | Coupling relay, 1 changeover contact, 6A, 250VAC | Finder          | 4071963     | 67    |         |
| =P15(i)_P28(i) | +SS01             | -67K2   | 1        | Socket, 12...24VDC, 1 Pole 6A, screw terminal    | Finder          | 4044331     | 67    |         |
| =P15(i)_P28(i) | +SS01             | -67K2   | 1        | Relay interface module                           | Finder          | 4063743     | 6     |         |
| =P15(i)_P28(i) | +SS01             | -67K3   | 1        | Coupling relay, 1 changeover contact, 6A, 250VAC | Finder          | 4071963     | 67    |         |

Parts list

| Plant          | Mounting location | Device  | Quantity | Designation                                          | Manufacturer    | Part number | Page | Remarks |
|----------------|-------------------|---------|----------|------------------------------------------------------|-----------------|-------------|------|---------|
| =P15(i)_P28(i) | +SS01             | -67K3   | 1        | Socket, 12...24VDC, 1 Pole 6A, screw terminal        | Finder          | 4044331     | 67   |         |
| =P15(i)_P28(i) | +SS01             | -67K3   | 1        | Relay interface module                               | Finder          | 4063743     | 6    |         |
| =P15(i)_P28(i) | +SS01             | -67K4   | 1        | Coupling relay, 1 changeover contact, 6A, 250VAC     | Finder          | 4071963     | 67   |         |
| =P15(i)_P28(i) | +SS01             | -67K4   | 1        | Socket, 12...24VDC, 1 Pole 6A, screw terminal        | Finder          | 4044331     | 67   |         |
| =P15(i)_P28(i) | +SS01             | -67K4   | 1        | Relay interface module                               | Finder          | 4063743     | 6    |         |
| =P15(i)_P28(i) | +SS01             | -68T1   | 1        | Signal conditioner                                   | Phoenix Contact | 4070902     | 68   |         |
| =P15(i)_P28(i) | +SS01             | -68W1.1 | 1        | UL approved PVC Electronic cable LIY(C)Y (3×0,34) GY | Lütze           | 5003040     | 68   |         |
| =P15(i)_P28(i) | +SS01             | -68W1.2 | 1        | UL approved PVC Electronic cable LIY(C)Y (3×0,34) GY | Lütze           | 5003040     | 68   |         |
| =P15(i)_P28(i) | +SS01             | -68X1   | 1        | End and partition plate for terminal block           | Phoenix Contact | 4067867     |      |         |
| =P15(i)_P28(i) | +SS01             | -68X1   | 1        | Feed-through terminal block                          | Phoenix Contact | 4067865     | 68   |         |
| =P15(i)_P28(i) | +SS01             | -68X1   | 1        | Ground terminal block                                | Phoenix Contact | 4067866     | 68   |         |
| =P15(i)_P28(i) | +SS01             | -69SH2  | 1        | Shield connection terminal                           | Weidmueller     | 4047811     | 69   |         |
| =P15(i)_P28(i) | +SS01             | -69W3   | 1        | UL approved PVC Electronic cable LIY(C)Y (3×0,34) GY | Lütze           | 5003040     | 69   |         |
| =P15(i)_P28(i) | +SS01             | -69X1   | 1        | End bracket for terminal block                       | WAGO            | 4067670     |      |         |
| =P15(i)_P28(i) | +SS01             | -69X1   | 1        | End and partition plate for terminal block           | Phoenix Contact | 4067867     |      |         |
| =P15(i)_P28(i) | +SS01             | -69X1   | 0        |                                                      |                 |             | 6    |         |
| =P15(i)_P28(i) | +SS01             | -69X1   | 4        | Feed-through terminal block                          | Phoenix Contact | 4067865     | 69   |         |
| =P15(i)_P28(i) | +SS01             | -69X1   | 1        | Ground terminal block                                | Phoenix Contact | 4067866     | 69   |         |
| =P15(i)_P28(i) | +SS01             | -70K1   | 1        | Relay interface module                               | Finder          | 4063743     | 70   |         |
| =P15(i)_P28(i) | +SS01             | -70X1   | 1        | End bracket for terminal block                       | WAGO            | 4067670     |      |         |
| =P15(i)_P28(i) | +SS01             | -70X1   | 1        | End and partition plate for terminal block           | Phoenix Contact | 4067867     |      |         |
| =P15(i)_P28(i) | +SS01             | -70X1   | 0        |                                                      |                 |             | 6    |         |
| =P15(i)_P28(i) | +SS01             | -70X1   | 2        | Feed-through terminal block                          | Phoenix Contact | 4067865     | 70   |         |
| =P15(i)_P28(i) | +SS01             | -70X1   | 1        | Ground terminal block                                | Phoenix Contact | 4067866     | 70   |         |
| =P15(i)_P28(i) | +SS01             | -110X1  | 1        | End and partition plate for terminal block           | Phoenix Contact | 4067867     |      |         |
| =P15(i)_P28(i) | +SS01             | -110X1  | 0        |                                                      |                 |             | 6    |         |
| =P15(i)_P28(i) | +SS01             | -110X1  | 2        | Feed-through terminal block                          | Phoenix Contact | 4067865     | 110  |         |
| =P15(i)_P28(i) | +SS01             | -110X1  | 1        | Ground terminal block                                | Phoenix Contact | 4067866     | 110  |         |

Parts list

| Plant          | Mounting location | Device | Quantity | Designation                                | Manufacturer    | Part number | Page | Remarks |
|----------------|-------------------|--------|----------|--------------------------------------------|-----------------|-------------|------|---------|
| =P15(i)_P28(i) | +SS01             | -110X3 | 1        | End and partition plate for terminal block | Phoenix Contact | 4067867     |      |         |
| =P15(i)_P28(i) | +SS01             | -110X3 | 0        |                                            |                 |             | 6    |         |
| =P15(i)_P28(i) | +SS01             | -120X1 | 1        | End and partition plate for terminal block | Phoenix Contact | 4067867     |      |         |
| =P15(i)_P28(i) | +SS01             | -120X1 | 0        |                                            |                 |             | 6    |         |
| =P15(i)_P28(i) | +SS01             | -120X1 | 4        | Feed-through terminal block                | Phoenix Contact | 4067865     | 120  |         |
| =P15(i)_P28(i) | +SS01             | -120X1 | 1        | Ground terminal block                      | Phoenix Contact | 4067866     | 120  |         |
| =P15(i)_P28(i) | +SS01             | -120X5 | 1        | End and partition plate for terminal block | Phoenix Contact | 4067867     |      |         |
| =P15(i)_P28(i) | +SS01             | -120X5 | 0        |                                            |                 |             | 6    |         |
| =P15(i)_P28(i) | +SS01             | -120X5 | 2        | Feed-through terminal block                | Phoenix Contact | 4067865     | 120  |         |
| =P15(i)_P28(i) | +SS01             | -120X5 | 1        | Ground terminal block                      | Phoenix Contact | 4067866     | 120  |         |
| =P15(i)_P28(i) | +SS01             | -120X7 | 1        | End bracket for terminal block             | WAGO            | 4067670     |      |         |
| =P15(i)_P28(i) | +SS01             | -120X7 | 1        | End and partition plate for terminal block | Phoenix Contact | 4067867     |      |         |
| =P15(i)_P28(i) | +SS01             | -120X7 | 0        |                                            |                 |             | 6    |         |
| =P15(i)_P28(i) | +SS01             | -120X7 | 1        | Feed-through terminal block                | Phoenix Contact | 4067865     | 120  |         |
| =P15(i)_P28(i) | +SS01             | -120X7 | 1        | Ground terminal block                      | Phoenix Contact | 4067866     | 120  |         |
| =P15(i)_P28(i) | +SS01             | -120X9 | 2        | Feed-through terminal block                | Phoenix Contact | 4067865     | 120  |         |
| =P15(i)_P28(i) | +SS01             | -120X9 | 1        | Ground terminal block                      | Phoenix Contact | 4067866     | 120  |         |
| =P15(i)_P28(i) | +SS01             | -130X1 | 1        | End bracket for terminal block             | WAGO            | 4067670     |      |         |
| =P15(i)_P28(i) | +SS01             | -130X1 | 1        | End and partition plate for terminal block | Phoenix Contact | 4067867     |      |         |
| =P15(i)_P28(i) | +SS01             | -130X1 | 2        | Feed-through terminal block                | Phoenix Contact | 4067865     | 130  |         |
| =P15(i)_P28(i) | +SS01             | -130X1 | 2        | Ground terminal block                      | Phoenix Contact | 4067866     | 130  |         |
| =P15(i)_P28(i) | +SS01             | -130X5 | 1        | End bracket for terminal block             | WAGO            | 4067670     |      |         |
| =P15(i)_P28(i) | +SS01             | -130X5 | 1        | End and partition plate for terminal block | Phoenix Contact | 4067867     |      |         |
| =P15(i)_P28(i) | +SS01             | -130X5 | 2        | Feed-through terminal block                | Phoenix Contact | 4067865     | 130  |         |
| =P15(i)_P28(i) | +SS01             | -130X5 | 2        | Ground terminal block                      | Phoenix Contact | 4067866     | 130  |         |

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| Order number | Quantity | Designation                                                                                                                             | Type number | Manufacturer | Image                                                                                 |
|--------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|---------------------------------------------------------------------------------------|
| 4068181      | 1        | ET 200SP, BA 2XRJ45<br><br>SIMATIC DP, ET 200SP                                                                                         |             |              |    |
| 4068182      | 1        | SIMATIC S7 Memory card 24 MB For S7-1x00 CPU<br><br>Memory card                                                                         |             |              |    |
| 4065857      | 4        | Electronic device circuit breaker                                                                                                       |             |              |    |
| 4068673      | 1        | CIRCUIT BREAKER 10KA, 3POLE, C, 6A<br><br>ACC. TO UL 489 - 480Y/277V                                                                    |             |              |    |
| 4068174      | 1        | Stromversorgung, 3-phasig<br><br>400-500VAC , 24VDC 20A , 480W                                                                          |             |              |   |
| 4071963      | 4        | Coupling relay, 1 changeover contact, 6A, 250VAC<br><br>Modular interface relay, screw terminal - 1 pole, 6 A - AC (50/60 Hz)/DC - 24 V |             |              |  |
| 4044331      | 4        | Socket, 12...24VDC, 1 Pole 6A, screw terminal                                                                                           |             |              |  |
| 4063743      | 5        | Relay interface module<br><br>Modular interface relay, screw terminal - 1 pole, 6 A - AC (50/60 Hz)/DC - 24 V                           |             |              |  |

Summarized parts list

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| Order number | Quantity | Designation                                                                              | Type number | Manufacturer | Image                                                                                 |
|--------------|----------|------------------------------------------------------------------------------------------|-------------|--------------|---------------------------------------------------------------------------------------|
| 4068180      | 1        | CPU 1512SP F-1 PN, 600KB Prog., 2MB Data<br><br>SIMATIC ET 200SP Central processing unit |             |              |    |
| 4070341      | 2        | SIMATIC ET 200SP DI 16x 24V DC ST, PU 1<br><br>Digital module input                      |             |              |    |
| 4068190      | 2        | SIMATIC ET 200SP BU type A0 BU15-P16+A0+2D<br><br>BaseUnit                               |             |              |    |
| 4068191      | 5        | SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B<br><br>BaseUnit                               |             |              |    |
| 5003628      | 1        | SIMATIC ET 200SP AI 2xU/I 2-/4-wire HS<br><br>Analog module input                        |             |              |  |
| 4070340      | 1        | SIMATIC ET 200SP AI 4xI 2-/4-wire ST<br><br>Analog module input                          |             |              |  |
| 4070342      | 1        | SIMATIC ET 200SP DQ 16x24 VDC/0.5 A ST<br><br>Digital module output                      |             |              |  |
| 4068188      | 1        | SIMATIC ET 200SP F-PM-E 24 V DC/8 A PPM ST<br><br>Power module                           |             |              |  |

Summarized parts list

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| Order number | Quantity | Designation                                                                                                                        | Type number | Manufacturer | Image                                                                                 |
|--------------|----------|------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|---------------------------------------------------------------------------------------|
| 4068193      | 1        | SIMATIC ET 200SP BU type C0 BU20-P6+A2+4D PU 1<br><br>BaseUnit                                                                     |             |              |    |
| 4068185      | 1        | SIMATIC ET 200SP DQ 8x24VDC/0.5A ST<br><br>Digital module output                                                                   |             |              |    |
| 4071897      | 1        | SIMATIC ET 200SP DQ 4x24VDC/2A ST PU 1<br><br>Digital module output                                                                |             |              |    |
| 4070996      | 2        | CONTACTOR,AC3:7,5KW 1NO+1NC DC24V<br><br>SIRIUS Power contactor                                                                    |             |              |    |
| 5003606      | 2        | SURGE SUPPRESSOR, VARISTOR,<br><br>AC 24...48V, DC 24...70V, FOR MOTOR CONTACTORS<br><br>SZ S0,                                    |             |              |   |
| 4065519      | 2        | AUX. SWITCH BLOCK , 4NO COND. PATHS: 1NO, 1NO,<br><br>1NO, 1NO F. CONT. RELAYS A. MOTOR CONT.<br><br>SZ S00 AND S0, SCREW TERMINAL |             |              |  |
| 4044259      | 1        | CIRCUIT-BREAKER SCREW CONNECTION 12.5A<br><br>SIRIUS Circuit breaker                                                               |             |              |  |
| 4064461      | 2        | TRANSVERSE AUX. SWITCH, 1NO+1NC, SCREW CONNECTION<br><br>FOR CIRCUIT-BREAKERS, SZ S00/S0                                           |             |              |  |

Summarized parts list

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| Order number | Quantity | Designation                                                                                                                      | Type number | Manufacturer | Image                                                                                 |
|--------------|----------|----------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|---------------------------------------------------------------------------------------|
| 4070899      | 1        | SIRIUS SANFTSTARTER, S00,12.5A, 5,5KW/400V, 40GRAD, AC 200-480V, AC/DC 24V<br><br>SIRIUS soft starters for standard applications |             |              |    |
| 4071000      | 1        | CIRCUIT-BREAKER SCREW CONNECTION 0.32A<br><br>SIRIUS Circuit breaker                                                             |             |              |    |
| 4070997      | 1        | CONTACTOR,AC3:3KW 1NC DC24V<br><br>SIRIUS Power contactor                                                                        |             |              |    |
| 4044411      | 1        | SURGE SUPPRESSOR, VARISTOR,<br><br>AC 24...48V, DC 24...70V, F. CONT. RELAYS A. MOTOR CONT.<br><br>SZ S00,                       |             |              |    |
| 4047811      | 1        | Shield connection terminal<br><br>Shield connection terminal, Pitch, in mm: 14.00, Cable diameter, max.: 8 mm, Steel             |             |              |  |
| 4070902      | 1        | Signal conditioner                                                                                                               |             |              |  |
|              | 0        |                                                                                                                                  |             |              |                                                                                       |
| 4071001      | 1        | Cross-connector for terminal block<br><br>Plug-in bridge                                                                         |             |              |  |

Summarized parts list

ASCO\_F02\_006

| Order number | Quantity | Designation                                                                                     | Type number | Manufacturer | Image                                                                                 |
|--------------|----------|-------------------------------------------------------------------------------------------------|-------------|--------------|---------------------------------------------------------------------------------------|
| 4066996      | 2        | Fernwartungsmodul                                                                               |             |              |    |
| 4070388_1    | 1        | GSM Modul für Fernwartung<br>4G EU                                                              |             |              |    |
| 4066997      | 1        | WLAN module for remote maintenance                                                              |             |              |    |
| 4067623      | 1        | Patch-Kabel LAN RJ45<br><br>grün , 2m<br><br>S/FTP Kat.6 LSOH                                   |             |              |    |
| 4067312      | 1        | Patch-Kabel LAN RJ45<br><br>grün , 1m<br><br>S/FTP Kat.6 LSOH                                   |             |              |   |
| 4067196      | 1        | Kabel zur WLAN Antenne 2m                                                                       |             |              |                                                                                       |
|              | 1        | Kabel zur 4G Antenne 3m<br><br>???                                                              |             |              |                                                                                       |
| 4071269      | 1        | Assembled sensor actuator-line<br><br>M12 Bu. 0° A-kod. freies Ltg-ende PVC 8x0.25 gr UL/CSA 1m |             |              |  |

Summarized parts list

ASCO\_F02\_006

| Order number | Quantity | Designation                                                                                             | Type number | Manufacturer | Image                                                                                 |
|--------------|----------|---------------------------------------------------------------------------------------------------------|-------------|--------------|---------------------------------------------------------------------------------------|
| 5003040      | 3.00     | UL approved PVC Electronic cable LIY(C)Y (3×0,34) GY                                                    |             |              |    |
| 4067670      | 12       | End bracket for terminal block<br><br>Screwless end stop, 10 mm wide, for DIN-rail 35 x 15 and 35 x 7.5 |             |              |    |
| 5003672      | 2        | End and partition plate for terminal block<br><br>End cover                                             |             |              |    |
| 5003671      | 3        | Ground terminal block<br><br>Ground terminal                                                            |             |              |    |
| 5003670      | 2        | End and partition plate for terminal block<br><br>End cover                                             |             |              |  |
| 5003669      | 2        | Multi-level terminal block                                                                              |             |              |  |
| 4067865      | 35       | Feed-through terminal block<br><br>Double-level terminal block                                          |             |              |  |
| 4067867      | 18       | End and partition plate for terminal block<br><br>End cover                                             |             |              |  |

Summarized parts list

ASCO\_F02\_006

| Order number | Quantity | Designation                                                                                                              | Type number | Manufacturer | Image                                                                                 |
|--------------|----------|--------------------------------------------------------------------------------------------------------------------------|-------------|--------------|---------------------------------------------------------------------------------------|
| 4070909      | 18       | Feed-through terminal block<br><br>Double-level terminal block                                                           |             |              |    |
| 4070908      | 4        | Cross-connector for terminal block<br><br>Plug-in bridge                                                                 |             |              |    |
| 4067866      | 14       | Ground terminal block<br><br>Protective conductor double-level terminal block                                            |             |              |    |
| 4071480      | 1        | Verdrahtungsbaustein unten für Schützkombination Baugröße S0<br><br>ohne Abstand zwischen den Schützen, Schraubanschluss |             |              |    |
| 5003673      | 1        | LINK MODULE 3RV2.1-3RT2.1,3RV2.2-3RT2.2<br><br>SIRIUS link module<br><br>actuating voltage contactor: DC                 |             |              |   |
| 5003623      | 1        | 3-PHASE BUSBARS                                                                                                          |             |              |  |
| 4065520      | 1        | LINK MODULE F.3RV S00/S0, 3RT S00<br><br>SIRIUS link module<br><br>for 3RV1.2 and 3RT101, for 3RV2.1/3RV2.2 and 3RT2.1   |             |              |  |
| 4070910      | 1        | End and partition plate for terminal block<br><br>End cover                                                              |             |              |  |

Summarized parts list

ASCO\_F02\_006

| Order number | Quantity | Designation                                                                                     | Type number | Manufacturer | Image                                                                               |
|--------------|----------|-------------------------------------------------------------------------------------------------|-------------|--------------|-------------------------------------------------------------------------------------|
| 4070911      | 1        | Disconnect and test disconnect rail-mount terminal block<br><br>Knife-disconnect terminal block |             |              |  |

Summarized parts list

ASCO\_F02\_006

| Order number | Quantity | Designation                                                                   | Type number | Manufacturer | Image                                                                                 |
|--------------|----------|-------------------------------------------------------------------------------|-------------|--------------|---------------------------------------------------------------------------------------|
| 4067780      | 1        | SIMATIC HMI TP700 COMFORT<br><br>SIMATIC, HMI<br><br>Comfort Panel            |             |              |    |
|              | 0        |                                                                               |             |              |                                                                                       |
| 4063812      | 1        | Disconnect switch<br><br>3-Pole, 25 A<br><br>600 V                            |             |              |    |
| 4067868      | 1        | Main Switch Terminal Cover<br><br>3-pol ; 25A                                 |             |              |    |
| 4063813      | 1        | Handle for Front/Base Mounting, 67 x 67mm                                     |             |              |   |
| 4063814      | 1        | Shaft Extension                                                               |             |              |  |
| 4071240      | 1        | ILLUMINATED PUSHBUTTON, BLUE<br><br>SIRIUS ACT<br><br>CIN20240911110240188284 |             |              |  |
| 4071233      | 2        | HOLDER<br><br>SIRIUS ACT Holders<br><br>Holder                                |             |              |  |

Summarized parts list

ASCO\_F02\_006

| Order number | Quantity | Designation                                                                                                                     | Type number | Manufacturer | Image                                                                                 |
|--------------|----------|---------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|---------------------------------------------------------------------------------------|
| 4071241      | 1        | CONTACT MODULE 1NO<br><br>SIRIUS ACT Contact module<br><br>Contact module                                                       |             |              |    |
| 4071242      | 1        | LED MODULE, BLUE<br><br>SIRIUS ACT LED module<br><br>LED module                                                                 |             |              |    |
| 4071232      | 1        | ILL. EM. STOP MUSHR. PUSHBUTTON,40MM,RED<br><br>SIRIUS ACT EMERGENCY STOP mushroom pushbuttons<br><br>Betätigungs-/Meldeelement |             |              |    |
| 4071237      | 2        | CONTACT MODULE 1NC<br><br>SIRIUS ACT Contact module<br><br>Contact module                                                       |             |              |    |
| 4071238      | 1        | LED MODULE, RED<br><br>SIRIUS ACT LED module<br><br>LED module                                                                  |             |              |  |
| 4071239      | 1        | EMERGENCY STOP BACKING PLATE, YELLOW<br><br>SIRIUS ACT EMERGENCY STOP backing plate<br><br>EMERGENCY STOP name plate            |             |              |  |

Summarized parts list

ASCO\_F02\_006

| Order number | Quantity | Designation                                                          | Type number | Manufacturer | Image                                                                                 |
|--------------|----------|----------------------------------------------------------------------|-------------|--------------|---------------------------------------------------------------------------------------|
|              | 0        |                                                                      |             |              |                                                                                       |
| 4071528      | 1        | Levelsensor                                                          |             |              |    |
| 4071046      | 1        | Magnetostrictive sensors                                             |             |              |    |
| 4071813      | 1        | hydraulic pressure sensor<br>0...250bar ; 4...20mA                   |             |              |    |
| 4068204      | 1        | Pressure transducer<br>0...25 bar , 4...20 mA<br>M12 4pol            |             |              |   |
| 4071229      | 1        | Temperaturmessung mit Umformer<br>M12 4POL , 4...20mA , -25... +100C |             |              |  |
|              | 1        | Lüfter für Ölkühler<br>400/460V , 50/60 Hz , 0140/0.152 kW , 61 dB   |             |              |                                                                                       |
| 5003033      | 1        | PVC control cable Multinorm 4G4 GY                                   |             |              |  |

Summarized parts list

ASCO\_F02\_006

| Order number | Quantity | Designation                                                                                                          | Type number | Manufacturer | Image                                                                                 |
|--------------|----------|----------------------------------------------------------------------------------------------------------------------|-------------|--------------|---------------------------------------------------------------------------------------|
| 5003568      | 5.00     | PVC control cable Multinorm 7G0,5 GY                                                                                 |             |              |    |
| 4071505      | 1        | Interface extension with wall connection<br>SZ Interface extension, with wallconnection, RJ 45, L: 2000 mm           |             |              |    |
| 4071270      | 1        | Assembled sensor actuator-line<br>M12 male 0° A-cod. with cable PUR 8x0.25 gy UL/CSA+drag ch. 0.6m                   |             |              |    |
|              | 10.00    | Power and control cables<br>ÖLFLEX CLASSIC 110 CY 18G1,5                                                             |             |              |    |
|              | 1        | PVC control cable Multinorm (12G1,5) GY                                                                              |             |              |  |
| 5002883      | 2.00     | ÖLFLEX 150 2X0,75                                                                                                    |             |              |  |
| 4049107      | 1        | Steckverbinder Vorkonfektioniert<br>M12x1 8x0.25                                                                     |             |              |  |
| 4071188      | 3        | Assembled sensor actuator-line<br>M12 female 0° A-cod. with cable shielded PUR 4x0.34 shielded bk UL/CSA+drag ch. 3m |             |              |  |

Summarized parts list

ASCO\_F02\_006

| Order number | Quantity | Designation                                                                                                              | Type number | Manufacturer | Image                                                                                 |
|--------------|----------|--------------------------------------------------------------------------------------------------------------------------|-------------|--------------|---------------------------------------------------------------------------------------|
| 5003631      | 4.20     | PVC control cable Multinorm 3G0,5 GY                                                                                     |             |              |    |
| 4066062      | 2        | Konfektionierte Ventilstecker MSUD<br>MSUD Ventilst. A-18mm, A-kod. freies Ltg-ende PUR 3x0.75 sw<br>UL/CSA+schleppk. 5m |             |              |    |
| 4071263      | 1        | ECO40 pipe base M20<br><br>400mm                                                                                         |             |              |    |
| 4071264      | 1        | ECO40 LED continuous lighting module 24VAC/DC blue<br><br>24VAC/DC blue                                                  |             |              |    |
| 4071265      | 1        | ECO40 LED continuous lighting module 24VAC/DC green<br><br>24VAC/DC green                                                |             |              |  |
| 4071266      | 1        | ECO40 LED continuous lighting module 24VAC/DC yellow<br><br>24VAC/DC yellow                                              |             |              |  |
| 4071267      | 1        | ECO40 LED continuous lighting module 24VAC/DC red<br><br>24VAC/DC red                                                    |             |              |  |
| 4071268      | 1        | ECO40 LED continuous lighting module 24VAC/DC buzzer<br><br>24VAC/DC Buzzer                                              |             |              |  |

# Summarized parts list

ASCO\_F02\_006

| Order number | Quantity | Designation                                                               | Type number | Manufacturer | Image                                                                                |
|--------------|----------|---------------------------------------------------------------------------|-------------|--------------|--------------------------------------------------------------------------------------|
| 4065746      | 2        | Klemmdose Magnetventil<br>IP67 , für Spule 18F                            |             |              |   |
| 4044263      | 1        | Directional Valve<br>24VDC 38W                                            |             |              |   |
| 4065745      | 2        | Magnetventil<br>24V 20W                                                   |             |              |   |
| 4067865      | 7        | Feed-through terminal block<br>Double-level terminal block                |             |              |   |
| 4067866      | 1        | Ground terminal block<br>Protective conductor double-level terminal block |             |              |  |

ASCO\_F09\_004ASCO\_F09\_004ASCO\_F09\_004ASCO\_F09\_004

Cable name

Cable type

Free conductors

=P15(i)\_P28(i)+SS01-63W2.1

8x0,25 mm²

3

Manufacturer

Order number

Murrelektronik

4071269

| Mounting location: | Source     | Function text source | Stopper | L1 [mm] | Part number |
|--------------------|------------|----------------------|---------|---------|-------------|
|                    |            |                      |         |         |             |
| Control cabinet    | -50KF41:12 | Signal tower blue    |         |         |             |
| Control cabinet    | -50KF41:13 | Signal tower green   |         |         |             |
| Control cabinet    | -50KF41:14 | Signal tower yellow  |         |         |             |
| Control cabinet    | -50KF41:15 | Signal tower red     |         |         |             |
| Control cabinet    | -50KF41:16 | Signal tower Buzzer  |         |         |             |
|                    |            |                      |         |         |             |
|                    |            |                      |         |         |             |
| Control cabinet    | -40X1:6:4  | Power supply unit    |         |         |             |

1 m

-63W2.1

L1

WH

BN

GN

YE

GY

PK

BU

RD

DBU/WH

L2

WH

BN

GN

YE

GY

PK

BU

RD

DBU/WH

| Part number | L2 [mm] | Stopper | Function text target | Target  | Mounting location: |
|-------------|---------|---------|----------------------|---------|--------------------|
|             |         |         |                      |         |                    |
|             |         |         | Signal tower blue    | -63X2:2 | Control cabinet    |
|             |         |         | Signal tower green   | -63X2:3 | Control cabinet    |
|             |         |         | Signal tower yellow  | -63X2:4 | Control cabinet    |
|             |         |         | Signal tower red     | -63X2:5 | Control cabinet    |
|             |         |         | Signal tower Buzzer  | -63X2:6 | Control cabinet    |
|             |         |         |                      |         |                    |
|             |         |         |                      |         |                    |
|             |         |         | Power supply unit    | -63X2:1 | Control cabinet    |

Cable name

Cable type

Free conductors

=P15(i)\_P28(i)+SS01-68W1.1

3x0,34 mm²

1

Manufacturer

Order number

Lütze

5003040

Interface 1 Specification of production speed remotely (4...20mA = 0...100%)

| Mounting location: | Source    | Function text source                    | Stopper | L1 [mm] | Part number |
|--------------------|-----------|-----------------------------------------|---------|---------|-------------|
| Control cabinet    | -50KF32:8 | Interface 1 Specification of production |         |         |             |
| Control cabinet    | -50KF32:4 | =                                       |         |         |             |
|                    |           |                                         |         |         |             |
|                    |           |                                         |         |         |             |

1 m

-68W1.1

L1

WH

BN

GN

SH

L2

WH

BN

GN

SH

| Part number | L2 [mm] | Stopper | Function text target                    | Target  | Mounting location: |
|-------------|---------|---------|-----------------------------------------|---------|--------------------|
|             |         |         | Interface 1 Specification of production | -68T1:6 | Control cabinet    |
|             |         |         | =                                       | -68T1:5 | Control cabinet    |
|             |         |         |                                         |         |                    |
|             |         |         |                                         |         |                    |

Cable name

Cable type

Free conductors

=P15(i)\_P28(i)+SS01-68W1.2

3x0,34 mm²

1

Manufacturer

Order number

Lütze

5003040

Interface 1 Specification of production speed remotely (4...20mA = 0...100%)

| Mounting location: | Source    | Function text source                    | Stopper | L1 [mm] | Part number |
|--------------------|-----------|-----------------------------------------|---------|---------|-------------|
| Control cabinet    | -68X1:2:2 | Interface 1 Specification of production |         |         |             |
| Control cabinet    | -68X1:1:1 | =                                       |         |         |             |
|                    |           |                                         |         |         |             |
| Control cabinet    | -68X1:4:2 | Interface 1 Specification of production |         |         |             |

1 m

-68W1.2

L1

WH

BN

GN

SH

L2

WH

BN

GN

SH

| Part number | L2 [mm] | Stopper | Function text target                    | Target     | Mounting location: |
|-------------|---------|---------|-----------------------------------------|------------|--------------------|
|             |         |         | Interface 1 Specification of production | -68T1:2    | Control cabinet    |
|             |         |         | =                                       | -68T1:1    | Control cabinet    |
|             |         |         |                                         |            |                    |
|             |         |         | Interface 1 Specification of production | -68W1.2:SH | Control cabinet    |

Cable name

Cable type

Free conductors

=P15(i)\_P28(i)+SS01-69W3

3x0,34 mm²

1

ASCO CO2 Detector

Manufacturer

Order number

Lütze

5003040

| Mounting location: | Source    | Function text source | Stopper | L1 [mm] | Part number |
|--------------------|-----------|----------------------|---------|---------|-------------|
| Control cabinet    | -69X1:4:2 | ASCO CO2 Detector    |         |         |             |
| Control cabinet    | -69X1:3:1 | =                    |         |         |             |
|                    |           |                      |         |         |             |
| Control cabinet    | -69SH2:SH | ASCO CO2 Detector    |         |         |             |

1 m

-69W3

L1

L2

WH

BN

GN

SH

| Part number | L2 [mm] | Stopper | Function text target | Target    | Mounting location: |
|-------------|---------|---------|----------------------|-----------|--------------------|
|             |         |         | ASCO CO2 Detector    | -50KF32:7 | Control cabinet    |
|             |         |         | =                    | -50KF32:3 | Control cabinet    |
|             |         |         |                      |           |                    |
|             |         |         | ASCO CO2 Detector    | -69W3:SH  | Control cabinet    |

ASCO\_R09\_004

Cable name

Cable type

Free conductors

=P15(i)\_P28(i)+EXT-10W1

4x4 mm²

0

Power supply

Manufacturer

Order number

Lütze

5003033

| Mounting location: | Source         | Function text source | Stopper | L1 [mm] | Part number |
|--------------------|----------------|----------------------|---------|---------|-------------|
| Door               | +DR-10Q1:1     | Main switch          |         |         |             |
| Door               | +DR-10Q1:3     | =                    |         |         |             |
| Door               | +DR-10Q1:5     | =                    |         |         |             |
| Control cabinet    | +SS01-10X1:1:1 | Power supply         |         |         |             |

-10W1

L1

L2

1

2

3

GNYE

| Part number | L2 [mm] | Stopper | Function text target | Target | Mounting location: |
|-------------|---------|---------|----------------------|--------|--------------------|
|             |         |         | Main switch          | L1     |                    |
|             |         |         | =                    | L2     |                    |
|             |         |         | =                    | L3     |                    |
|             |         |         | Power supply         | PE     |                    |

Cable name

Cable type

Free conductors

=P15(i)\_P28(i)+EXT-16W1

7x0,5 mm²

1

Hydraulic motor 1 Fan

Manufacturer

Order number

Lütze

5003568

| Mounting location: | Source         | Function text source  | Stopper | L1 [mm] | Part number |
|--------------------|----------------|-----------------------|---------|---------|-------------|
| Control cabinet    | +SS01-16X1:2:6 | Hydraulic motor 1 Fan |         |         |             |
| Control cabinet    | +SS01-16X1:1:5 | =                     |         |         |             |
| Control cabinet    | +SS01-16X1:3:7 | =                     |         |         |             |
|                    |                |                       |         |         |             |
| Control cabinet    | +SS01-16X1:5:4 | Hydraulic motor 1 Fan |         |         |             |
| Control cabinet    | +SS01-16X1:6:3 | =                     |         |         |             |
| Control cabinet    | +SS01-16X1:4:1 | =                     |         |         |             |

5 m

-16W1

L1

L2

1

2

3

4

5

6

GNYE

| Part number | L2 [mm] | Stopper | Function text target  | Target   | Mounting location: |
|-------------|---------|---------|-----------------------|----------|--------------------|
|             |         |         | Hydraulic motor 1 Fan | -16M1:U  | External           |
|             |         |         | =                     | -16M1:V  | External           |
|             |         |         | =                     | -16M1:W  | External           |
|             |         |         |                       |          |                    |
|             |         |         | Hydraulic motor 1 Fan | -16M1:RD | External           |
|             |         |         | =                     | -16M1:RD | External           |
|             |         |         | =                     | -16M1:PE | External           |

1.1

V500

31.01.2024

ASCO

Date

22.07.2026

Editor

Modification

Date

Name

ASCO

All about CO<sub>2</sub>

ASCO Kohlensäure AG  
Hofenstrasse 19  
CH-9300 Wittenbach  
+41 71 466 80 80  
<http://www.ascoco2.com>

Page description:

Cable diagram

Project-No.:

Scheme-No.:

Project designation:

Scheme-No. Customer:

Project-No. Customer:

= AUS03

+

I sh

Pg

1.6

1.2

Cable name

=P15(i)\_P28(i)+EXT-61W9

Cable type

8x0,25 mm²

Free conductors

8

remote maintenance module (VPN)

Manufacturer

Rittal

Order number

4071505

| Mounting location: | Source | Function text source | Stopper | L1<br>[mm] | Part number |
|--------------------|--------|----------------------|---------|------------|-------------|
|                    |        |                      |         |            |             |
|                    |        |                      |         |            |             |
|                    |        |                      |         |            |             |
|                    |        |                      |         |            |             |
|                    |        |                      |         |            |             |
|                    |        |                      |         |            |             |
|                    |        |                      |         |            |             |
|                    |        |                      |         |            |             |
|                    |        |                      |         |            |             |

2 m

-61W9

L1

L2

WH1

WH2

WH3

WH4

WH5

WH6

WH7

WH8

| Part number | L2<br>[mm] | Stopper | Function text target | Target | Mounting location: |
|-------------|------------|---------|----------------------|--------|--------------------|
|             |            |         |                      |        |                    |
|             |            |         |                      |        |                    |
|             |            |         |                      |        |                    |
|             |            |         |                      |        |                    |
|             |            |         |                      |        |                    |
|             |            |         |                      |        |                    |
|             |            |         |                      |        |                    |
|             |            |         |                      |        |                    |
|             |            |         |                      |        |                    |

Cable name

=P15(i)\_P28(i)+EXT-63W2.2

Cable type

8x0,25 mm²

Free conductors

2

Manufacturer

Murrelektronik

Order number

4071270

| Mounting location: | Source       | Function text source | Stopper | L1<br>[mm] | Part number |
|--------------------|--------------|----------------------|---------|------------|-------------|
| Control cabinet    | +SS01-63X2:1 | Signal tower         |         |            |             |
| Control cabinet    | +SS01-63X2:2 | Signal tower blue    |         |            |             |
| Control cabinet    | +SS01-63X2:3 | Signal tower green   |         |            |             |
| Control cabinet    | +SS01-63X2:4 | Signal tower yellow  |         |            |             |
| Control cabinet    | +SS01-63X2:5 | Signal tower red     |         |            |             |
| Control cabinet    | +SS01-63X2:6 | Signal tower Buzzer  |         |            |             |
|                    |              |                      |         |            |             |
|                    |              |                      |         |            |             |
|                    |              |                      |         |            |             |

0.6 m

-63W2.2

L1

L2

WH

BN

GN

YE

GY

PK

BU

RD

| Part number | L2<br>[mm] | Stopper | Function text target | Target  | Mounting location: |
|-------------|------------|---------|----------------------|---------|--------------------|
|             |            |         | Signal tower         | -63X1:0 | External           |
|             |            |         | Signal tower blue    | -63X1:1 | External           |
|             |            |         | Signal tower green   | -63X1:2 | External           |
|             |            |         | Signal tower yellow  | -63X1:3 | External           |
|             |            |         | Signal tower red     | -63X1:4 | External           |
|             |            |         | Signal tower Buzzer  | -63X1:5 | External           |
|             |            |         |                      |         |                    |
|             |            |         |                      |         |                    |
|             |            |         |                      |         |                    |

Cable name

Cable type

Free conductors

=P15(i)\_P28(i)+EXT-69W1

12x1,5 mm²

3

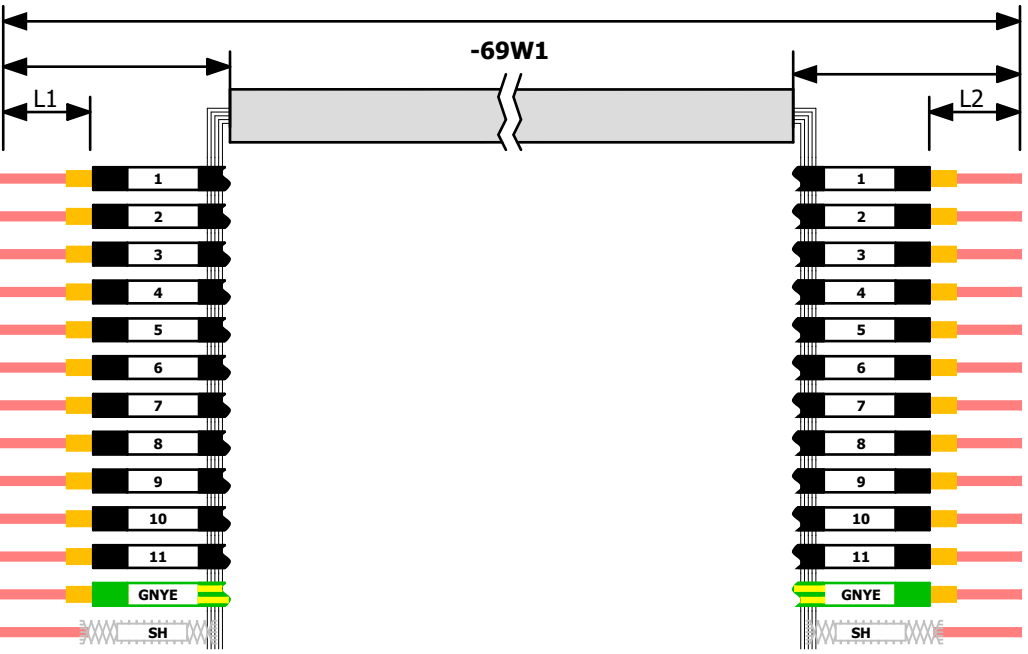
ASCO CO2 Detector

Manufacturer

Order number

Lütze

| Mounting location: | Source          | Function text source | Stopper | L1 [mm] | Part number |
|--------------------|-----------------|----------------------|---------|---------|-------------|
| Control cabinet    | +SS01-69X1:1:4  | ASCO CO2 Detector    |         |         |             |
| Control cabinet    | +SS01-69X1:2:3  | =                    |         |         |             |
| Control cabinet    | +SS01-69X1:3:4  | =                    |         |         |             |
| Control cabinet    | +SS01-69X1:4:3  | =                    |         |         |             |
|                    |                 |                      |         |         |             |
| Control cabinet    | +SS01-69X1:5:4  | ASCO CO2 Detector    |         |         |             |
| Control cabinet    | +SS01-69X1:6:3  | =                    |         |         |             |
| Control cabinet    | +SS01-69X1:7:4  | =                    |         |         |             |
| Control cabinet    | +SS01-69X1:8:3  | =                    |         |         |             |
|                    |                 |                      |         |         |             |
|                    |                 |                      |         |         |             |
| Control cabinet    | +SS01-69X1:9:4  | ASCO CO2 Detector    |         |         |             |
| Control cabinet    | +SS01-69X1:10:3 | =                    |         |         |             |



| Part number | L2 [mm] | Stopper | Function text target | Target     | Mounting location: |
|-------------|---------|---------|----------------------|------------|--------------------|
|             |         |         | ASCO CO2 Detector    | -69A1:PW+  | External           |
|             |         |         | =                    | -69A1:PW-  | External           |
|             |         |         | =                    | -69A1:CLO1 | External           |
|             |         |         | =                    | -69A1:GND  | External           |
|             |         |         |                      |            |                    |
|             |         |         | ASCO CO2 Detector    | -69A1:31   | External           |
|             |         |         | =                    | -69A1:33   | External           |
|             |         |         | =                    | -69A1:23   | External           |
|             |         |         | =                    | -69A1:13   | External           |
|             |         |         |                      |            |                    |
|             |         |         |                      |            |                    |
|             |         |         | ASCO CO2 Detector    | -69A1:PE   | External           |
|             |         |         | =                    | -69W1:SH   | External           |

Cable name

Cable type

Free conductors

=P15(i)\_P28(i)+EXT-110W1

2x0.75 mm

0

Plant part 1 oil level

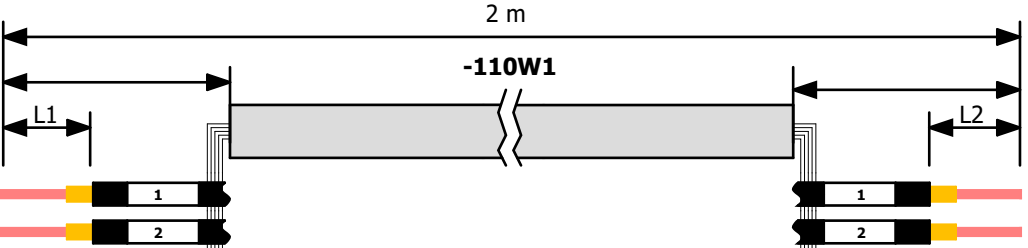
Manufacturer

Order number

Lapp Group

5002883

| Mounting location: | Source          | Function text source   | Stopper | L1 [mm] | Part number |
|--------------------|-----------------|------------------------|---------|---------|-------------|
| Control cabinet    | +SS01-110X1:1:4 | Plant part 1 oil level |         |         |             |
| Control cabinet    | +SS01-110X1:2:3 | =                      |         |         |             |



| Part number | L2 [mm] | Stopper | Function text target   | Target   | Mounting location: |
|-------------|---------|---------|------------------------|----------|--------------------|
|             |         |         | Plant part 1 oil level | -110B1:1 | External           |
|             |         |         | =                      | -110B1:2 | External           |

Cable name

Cable type

Free conductors

=P15(i)\_P28(i)+EXT-120W1

8x0.25 mm²

0

Plant part 1 linear measurement

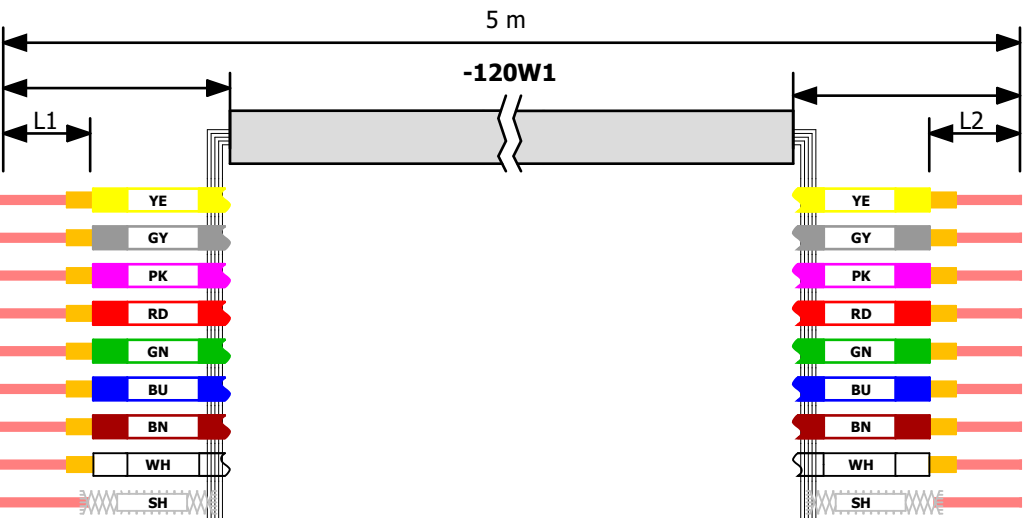
Manufacturer

Order number

Balluff

4049107

| Mounting location: | Source          | Function text source            | Stopper | L1 [mm] | Part number |
|--------------------|-----------------|---------------------------------|---------|---------|-------------|
| Control cabinet    | +SS01-120X1:6:3 | Plant part 1 linear measurement |         |         |             |
| Control cabinet    | +SS01-120X1:4:3 | =                               |         |         |             |
| Control cabinet    | +SS01-120X1:5:4 | =                               |         |         |             |
| Control cabinet    | +SS01-120X1:7:4 | =                               |         |         |             |
| Control cabinet    | +SS01-120X1:3:4 | =                               |         |         |             |
| Control cabinet    | +SS01-120X1:2:3 | =                               |         |         |             |
| Control cabinet    | +SS01-120X1:1:4 | =                               |         |         |             |
| Control cabinet    | +SS01-120X1:8:3 | =                               |         |         |             |
| Control cabinet    | +SS01-120X1:9:4 | =                               |         |         |             |



| Part number | L2 [mm] | Stopper | Function text target            | Target    | Mounting location: |
|-------------|---------|---------|---------------------------------|-----------|--------------------|
|             |         |         | Plant part 1 linear measurement | -120B1:1  | External           |
|             |         |         | =                               | -120B1:2  | External           |
|             |         |         | =                               | -120B1:3  | External           |
|             |         |         | =                               | -120B1:4  | External           |
|             |         |         | =                               | -120B1:5  | External           |
|             |         |         | =                               | -120B1:6  | External           |
|             |         |         | =                               | -120B1:7  | External           |
|             |         |         | =                               | -120B1:8  | External           |
|             |         |         | =                               | -120W1:SH | External           |

Cable name

Cable type

Free conductors

=P15(i)\_P28(i)+EXT-120W5

4x0,34 mm²

0

Plant part 1 pressure measurement hydraulic

3 m

-120W5

L1

L2

BN

WH

BU

BK

SH

BN

WH

BU

BK

SH

Manufacturer

Order number

Murrelektronik

4071188

| Mounting location: | Source          | Function text source              | Stopper | L1 [mm] | Part number |
|--------------------|-----------------|-----------------------------------|---------|---------|-------------|
| Control cabinet    | +SS01-120X5:1:4 | Plant part 1 pressure measurement |         |         |             |
| Control cabinet    | +SS01-120X5:2:3 | =                                 |         |         |             |
| Control cabinet    | +SS01-120X5:3:4 | =                                 |         |         |             |
| Control cabinet    | +SS01-120X5:4:3 | =                                 |         |         |             |
| Control cabinet    | +SS01-120X5:6:3 | =                                 |         |         |             |

| Part number | L2 [mm] | Stopper | Function text target              | Target    | Mounting location: |
|-------------|---------|---------|-----------------------------------|-----------|--------------------|
|             |         |         | Plant part 1 pressure measurement | -120B5:1  | External           |
|             |         |         | =                                 | -120B5:2  | External           |
|             |         |         | =                                 | -120B5:3  | External           |
|             |         |         | =                                 | -120B5:4  | External           |
|             |         |         | =                                 | -120W5:SH | External           |

Cable name

Cable type

Free conductors

=P15(i)\_P28(i)+EXT-120W7

4x0,34 mm²

2

Plant part 1 Pressure measurement CO2

3 m

-120W7

L1

L2

BN

WH

BU

BK

SH

BN

WH

BU

BK

SH

Manufacturer

Order number

Murrelektronik

4071188

| Mounting location: | Source          | Function text source                   | Stopper | L1 [mm] | Part number |
|--------------------|-----------------|----------------------------------------|---------|---------|-------------|
| Control cabinet    | +SS01-120X7:1:4 | Plant part 1 Pressure measurement      |         |         |             |
|                    |                 |                                        |         |         |             |
| Control cabinet    | +SS01-120X7:2:3 | Plant part 1 Pressure measurement      |         |         |             |
|                    |                 |                                        |         |         |             |
| Control cabinet    | +SS01-120X7:4:3 | Plant part 1 Hydraulic oil temperature |         |         |             |

| Part number | L2 [mm] | Stopper | Function text target                   | Target    | Mounting location: |
|-------------|---------|---------|----------------------------------------|-----------|--------------------|
|             |         |         | Plant part 1 Pressure measurement      | -120B7:1  | External           |
|             |         |         |                                        |           |                    |
|             |         |         | Plant part 1 Pressure measurement      | -120B7:3  | External           |
|             |         |         |                                        |           |                    |
|             |         |         | Plant part 1 Hydraulic oil temperature | -120W7:SH | External           |

Cable name

Cable type

Free conductors

=P15(i)\_P28(i)+EXT-120W9

4x0,34 mm²

0

Plant part 1 Hydraulic oil temperature

3 m

-120W9

L1

L2

BN

WH

BU

BK

SH

BN

WH

BU

BK

SH

Manufacturer

Order number

Murrelektronik

4071188

| Mounting location: | Source          | Function text source                   | Stopper | L1 [mm] | Part number |
|--------------------|-----------------|----------------------------------------|---------|---------|-------------|
| Control cabinet    | +SS01-120X9:1:4 | Plant part 1 Hydraulic oil temperature |         |         |             |
| Control cabinet    | +SS01-120X9:2:3 | =                                      |         |         |             |
| Control cabinet    | +SS01-120X9:3:4 | =                                      |         |         |             |
| Control cabinet    | +SS01-120X9:4:3 | =                                      |         |         |             |
| Control cabinet    | +SS01-120X9:6:3 | =                                      |         |         |             |

| Part number | L2 [mm] | Stopper | Function text target                   | Target    | Mounting location: |
|-------------|---------|---------|----------------------------------------|-----------|--------------------|
|             |         |         | Plant part 1 Hydraulic oil temperature | -120B9:1  | External           |
|             |         |         | =                                      | -120B9:2  | External           |
|             |         |         | =                                      | -120B9:3  | External           |
|             |         |         | =                                      | -120B9:4  | External           |
|             |         |         | =                                      | -120W9:SH | External           |

Cable name

Cable type

Free conductors

=P15(i)\_P28(i)+EXT-130W1

3x0,5 mm²

0

Plant part 1 CO2 valve 1

2.2 m

-130W1

L1

L2

1

2

GNYE

1

2

GNYE

Manufacturer

Order number

Lütze

5003631

| Mounting location: | Source          | Function text source     | Stopper | L1 [mm] | Part number |
|--------------------|-----------------|--------------------------|---------|---------|-------------|
| Control cabinet    | +SS01-130X1:1:4 | Plant part 1 CO2 valve 1 |         |         |             |
| Control cabinet    | +SS01-130X1:2:3 | =                        |         |         |             |
| Control cabinet    | +SS01-130X1:3:4 | =                        |         |         |             |

| Part number | L2 [mm] | Stopper | Function text target     | Target | Mounting location: |
|-------------|---------|---------|--------------------------|--------|--------------------|
|             |         |         | Plant part 1 CO2 valve 1 | -130X1 | External           |
|             |         |         | =                        | -130X1 | External           |
|             |         |         | =                        | -130X1 | External           |

1.4

|              |            |      |        |            |
|--------------|------------|------|--------|------------|
| V500         | 31.01.2024 | ASCO | Date   | 22.07.2026 |
|              |            |      | Editor |            |
| Modification | Date       | Name |        |            |

ASCO

All about CO2

ASCO Kohlensäure AG

Hofenstrasse 19

CH-9300 Wittenbach

+41 71 466 80 80

<http://www.ascoco2.com>

Page description:

Cable diagram

|              |                                                        |                       |
|--------------|--------------------------------------------------------|-----------------------|
| Project-No.: | Project designation:                                   | = AUS03               |
|              | <b>Dry Ice Pelletizer P15 EVO / P28 EVO CE US V532</b> | +                     |
| Scheme-No.:  | Scheme-No. Customer:                                   | Project-No. Customer: |
|              |                                                        | I sh 1.6              |
|              |                                                        | Pg 1.5                |

1.6

Cable name

Cable type

Free conductors

=P15(i)\_P28(i)+EXT-130W3

3x0,5 mm²

0

Plant part 1 CO2 valve 2

2 m

-130W3

L1

L2

1

2

GNYE

1

2

GNYE

Manufacturer

Order number

Lütze

5003631

| Part number | L2 [mm] | Stopper | Function text target     | Target | Mounting location: |
|-------------|---------|---------|--------------------------|--------|--------------------|
|             |         |         | Plant part 1 CO2 valve 2 | -130X3 | External           |
|             |         |         | =                        | -130X3 | External           |
|             |         |         | =                        | -130X3 | External           |

| Mounting location: | Source          | Function text source     | Stopper | L1 [mm] | Part number |
|--------------------|-----------------|--------------------------|---------|---------|-------------|
| Control cabinet    | +SS01-130X1:5:4 | Plant part 1 CO2 valve 2 |         |         |             |
| Control cabinet    | +SS01-130X1:6:3 | =                        |         |         |             |
| Control cabinet    | +SS01-130X1:7:4 | =                        |         |         |             |

Cable name

Cable type

Free conductors

=P15(i)\_P28(i)+EXT-130W5

3x0,75 mm²

0

Plant part 1 valve forward

5 m

-130W5

L1

L2

1

2

GNYE

1

2

GNYE

Manufacturer

Order number

Murrelektronik

4066062

| Part number | L2 [mm] | Stopper | Function text target       | Target    | Mounting location: |
|-------------|---------|---------|----------------------------|-----------|--------------------|
|             |         |         | Plant part 1 valve forward | -130Y5:A1 | External           |
|             |         |         | =                          | -130Y5:A2 | External           |
|             |         |         | =                          | -130Y5:PE | External           |

| Mounting location: | Source          | Function text source       | Stopper | L1 [mm] | Part number |
|--------------------|-----------------|----------------------------|---------|---------|-------------|
| Control cabinet    | +SS01-130X5:1:4 | Plant part 1 valve forward |         |         |             |
| Control cabinet    | +SS01-130X5:2:3 | =                          |         |         |             |
| Control cabinet    | +SS01-130X5:3:4 | =                          |         |         |             |

Cable name

Cable type

Free conductors

=P15(i)\_P28(i)+EXT-130W7

3x0,75 mm²

0

Plant part 1 valve backward

5 m

-130W7

L1

L2

1

2

GNYE

1

2

GNYE

Manufacturer

Order number

Murrelektronik

4066062

| Part number | L2 [mm] | Stopper | Function text target        | Target    | Mounting location: |
|-------------|---------|---------|-----------------------------|-----------|--------------------|
|             |         |         | Plant part 1 valve backward | -130Y7:A1 | External           |
|             |         |         | =                           | -130Y7:A2 | External           |
|             |         |         | =                           | -130Y7:PE | External           |

| Mounting location: | Source          | Function text source        | Stopper | L1 [mm] | Part number |
|--------------------|-----------------|-----------------------------|---------|---------|-------------|
| Control cabinet    | +SS01-130X5:5:4 | Plant part 1 valve backward |         |         |             |
| Control cabinet    | +SS01-130X5:6:3 | =                           |         |         |             |
| Control cabinet    | +SS01-130X5:7:4 | =                           |         |         |             |

# Cable overview

ASCO\_F10\_001

[illegible]

|              |            |      |        |            |                                                                                                                                  |                                                                                                                                                 |                                     |              |                      |                                                        |                      |                       |        |
|--------------|------------|------|--------|------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------|----------------------|--------------------------------------------------------|----------------------|-----------------------|--------|
| V500         | 31.01.2024 | ASCO | Date   | 28.07.2026 | <br><b>ASCO</b><br>All about CO <sub>2</sub> | ASCO Kohlensäure AG<br>Hofenstrasse 19<br>CH-9300 Wittenbach<br>+41 71 466 80 80<br><a href="http://www.ascoco2.com">http://www.ascoco2.com</a> | Page description:<br>Cable overview | Project-No.: | Project designation: |                                                        | = AUS04              |                       |        |
|              |            |      | Editor |            |                                                                                                                                  |                                                                                                                                                 |                                     |              |                      | <b>Dry Ice Pelletizer P15 EVO / P28 EVO CE US V532</b> |                      | +                     |        |
|              |            |      |        |            |                                                                                                                                  |                                                                                                                                                 |                                     |              |                      | Scheme-No.:                                            | Scheme-No. Customer: | Project-No. Customer: | I sh 1 |
| Modification | Date       | Name |        |            |                                                                                                                                  |                                                                                                                                                 |                                     |              |                      |                                                        |                      |                       | Pg 1   |

Terminal-strip overview

| Terminal strip            | Function text                               | Terminals |      |          |         |              | Terminal diagram page |
|---------------------------|---------------------------------------------|-----------|------|----------|---------|--------------|-----------------------|
|                           |                                             | first     | last | Total PE | Total N | Total number |                       |
| =P15(i)_P28(i)+SS01-10X1  | Power supply                                | 1         | 1    | 1        | 0       | 1            | =AUS06/1              |
| =P15(i)_P28(i)+SS01-15X1  | Hydraulic motor 1                           | 1         | 4    | 1        | 0       | 1            | =AUS06/2              |
| =P15(i)_P28(i)+SS01-16X1  | Hydraulic motor 1 Fan                       | 1         | 6    | 1        | 0       | 2            | =AUS06/3              |
| =P15(i)_P28(i)+SS01-40X1  | 0VDC                                        | 1         | 6    | 0        | 0       | 6            | =AUS06/4              |
| =P15(i)_P28(i)+SS01-41X1  | 24VDC 1                                     | 1         | 3    | 0        | 0       | 3            | =AUS06/5              |
| =P15(i)_P28(i)+SS01-41X3  | 24VDC 2                                     | 1         | 4    | 0        | 0       | 4            | =AUS06/6              |
| =P15(i)_P28(i)+SS01-41X5  | 24VDC 3                                     | 1         | 2    | 0        | 0       | 2            | =AUS06/7              |
| =P15(i)_P28(i)+SS01-41X7  | 24VDC 4                                     | 1         | 3    | 0        | 0       | 3            | =AUS06/8              |
| =P15(i)_P28(i)+SS01-65X1  | Interface 1 Emergency stop                  | 1         | 10   | 2        | 0       | 5            | =AUS06/9              |
| =P15(i)_P28(i)+SS01-66X1  | Interface 1                                 | 1         | 18   | 2        | 0       | 9            | =AUS06/10             |
| =P15(i)_P28(i)+SS01-68X1  | =                                           | 1         | 4    | 2        | 0       | 2            | =AUS06/11             |
| =P15(i)_P28(i)+SS01-69X1  | Interface 1 ASCO CO2 detector               | 1         | 10   | 2        | 0       | 5            | =AUS06/12             |
| =P15(i)_P28(i)+SS01-70X1  | Interface 1 conveyor belt                   | 1         | 6    | 2        | 0       | 3            | =AUS06/13             |
| =P15(i)_P28(i)+SS01-110X1 | Plant part 1 oil level                      | 1         | 6    | 2        | 0       | 3            | =AUS06/14             |
| =P15(i)_P28(i)+SS01-110X3 | Plant part 1 oil temperature                |           |      | 0        | 0       | 0            |                       |
| =P15(i)_P28(i)+SS01-120X1 | Plant part 1 linear measurement             | 1         | 10   | 2        | 0       | 5            | =AUS06/15             |
| =P15(i)_P28(i)+SS01-120X5 | Plant part 1 pressure measurement hydraulic | 1         | 6    | 2        | 0       | 3            | =AUS06/16             |
| =P15(i)_P28(i)+SS01-120X7 | Plant part 1 Pressure measurement CO2       | 1         | 4    | 2        | 0       | 2            | =AUS06/17             |
| =P15(i)_P28(i)+SS01-120X9 |                                             | 1         | 6    | 2        | 0       | 3            | =AUS06/18             |
| =P15(i)_P28(i)+SS01-130X1 | Plant part 1 CO2 valve 1                    | 1         | 8    | 4        | 0       | 4            | =AUS06/19             |
| =P15(i)_P28(i)+SS01-130X5 | Plant part 1 valve forward                  | 1         | 8    | 4        | 0       | 4            | =AUS06/20             |
| =P15(i)_P28(i)+SS01-40XT5 | Power supply unit Disconnect terminal       | 1         | 3    | 2        | 0       | 3            | =AUS06/21             |
| =R85EVO+EXT-82X1          |                                             | 1         | 18   | 2        | 0       | 7            |                       |
| =R85EVO+EXT-84X1          |                                             | 1         | 2    | 0        | 0       | 1            |                       |

Terminal diagram

| function text |  |  |  |  |  |  |  |  | Cable name | Terminal strip<br>=P15(i)_P28(i)+SS01<br><b>-10X1</b><br>Power supply |                     |          |       |        |                                | Cable name          | +EXT-10W1  |                                          |  |  | Page / column |
|---------------|--|--|--|--|--|--|--|--|------------|-----------------------------------------------------------------------|---------------------|----------|-------|--------|--------------------------------|---------------------|------------|------------------------------------------|--|--|---------------|
|               |  |  |  |  |  |  |  |  | cable type | Target designation<br>External                                        | Connection<br>point | terminal | Level | jumper | Target designation<br>Internal | Connection<br>point | cable type | LÜTZE SUPLEX® N PVC<br>MULTINOX® 4x4 mm² |  |  |               |
| Power supply  |  |  |  |  |  |  |  |  |            | +TEIL1-15M1                                                           | PE                  | 4        | 1     | 0      | •                              | PE                  |            | GNYE                                     |  |  | /10.1         |
|               |  |  |  |  |  |  |  |  |            | +TEIL1-15M1                                                           | PE                  | 3        |       |        |                                |                     |            |                                          |  |  |               |

Terminal diagram

| function text     |  |  |  |  |  |  |  | Cable name  | Terminal strip<br>=P15(i)_P28(i)+SS01<br><b>-15X1</b><br>Hydraulic motor 1 |       |          |                                |                     |            |       | Cable name |     |  |  |  |       | Page / column |
|-------------------|--|--|--|--|--|--|--|-------------|----------------------------------------------------------------------------|-------|----------|--------------------------------|---------------------|------------|-------|------------|-----|--|--|--|-------|---------------|
|                   |  |  |  |  |  |  |  |             | terminal                                                                   | Level | jumper   | Target designation<br>Internal | Connection<br>point | cable type |       |            |     |  |  |  |       |               |
| Hydraulic motor 1 |  |  |  |  |  |  |  | +TEIL1-15M1 | U                                                                          | 5     | <b>1</b> | 4                              | 4                   | •          | -15Q2 | 2T1        |     |  |  |  |       | /15.1         |
| =                 |  |  |  |  |  |  |  | 2           | +TEIL1-15M1                                                                | V     | 6        | <b>2</b>                       | 3                   | 3          | •     | -15Q2      | 4T2 |  |  |  |       | /15.1         |
| =                 |  |  |  |  |  |  |  | 3           | +TEIL1-15M1                                                                | W     | 7        | <b>3</b>                       | 2                   | 2          | •     | -15Q2      | 6T3 |  |  |  |       | /15.1         |
| =                 |  |  |  |  |  |  |  | GNYE        | +TEIL1-15M1                                                                | PE    | 1        | <b>4</b>                       |                     | 1          |       |            |     |  |  |  | /15.1 |               |

Terminal diagram

| function text         |  |  |  |  |  |  |  | +EXT-16M1                                   | Cable name | Terminal strip<br>=P15(i)_P28(i)+SS01<br><b>-16X1</b><br>Hydraulic motor 1 Fan |                   |          |          |        |                                |                   | Cable name |      |  |  |  | Page / column |  |       |
|-----------------------|--|--|--|--|--|--|--|---------------------------------------------|------------|--------------------------------------------------------------------------------|-------------------|----------|----------|--------|--------------------------------|-------------------|------------|------|--|--|--|---------------|--|-------|
|                       |  |  |  |  |  |  |  | LÜTZE SILFLEX® N PVC<br>MULTINORM 7x0,5 mm² | cable type | Target designation<br>External                                                 | Conction<br>point | terminal | Level    | jumper | Target designation<br>Internal | Conction<br>point | cable type |      |  |  |  |               |  |       |
| Hydraulic motor 1 Fan |  |  |  |  |  |  |  | 2                                           |            | +EXT-16M1                                                                      | V                 | 5        | <b>1</b> | 4      | 4                              | •                 | -16Q5      | 2/T1 |  |  |  |               |  | /16.1 |
| =                     |  |  |  |  |  |  |  | 1                                           |            | +EXT-16M1                                                                      | U                 | 6        | <b>2</b> | 3      | 3                              | •                 | -16Q5      | 4/T2 |  |  |  |               |  | /16.1 |
| =                     |  |  |  |  |  |  |  | 3                                           |            | +EXT-16M1                                                                      | W                 | 7        | <b>3</b> | 2      | 2                              | •                 | -16Q5      | 6/T3 |  |  |  |               |  | /16.1 |
| =                     |  |  |  |  |  |  |  | GNYE                                        |            | +EXT-16M1                                                                      | PE                | 1        | <b>4</b> |        | 1                              |                   |            |      |  |  |  |               |  | /16.1 |
| =                     |  |  |  |  |  |  |  | 5                                           |            | +EXT-16M1                                                                      | RD                | 4        | <b>5</b> | 1      | 1                              | •                 | -41X3      | 3:4  |  |  |  |               |  | /16.2 |
| =                     |  |  |  |  |  |  |  | 6                                           |            | +EXT-16M1                                                                      | RD                | 3        | <b>6</b> | 2      | 2                              | •                 | -50KF21    | 13   |  |  |  |               |  | /16.2 |

|    |            |      |        |            |                                                                                                                              |                                                                                                                                                 |                                                                |              |                      |                                                        |                      |                       |
|----|------------|------|--------|------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------------|----------------------|--------------------------------------------------------|----------------------|-----------------------|
|    | 31.01.2024 | ASCO | Date   | 22.07.2026 |  <b>ASCO</b><br>All about CO <sub>2</sub> | ASCO Kohlensäure AG<br>Hofenstrasse 19<br>CH-9300 Wittenbach<br>+41 71 466 80 80<br><a href="http://www.ascoco2.com">http://www.ascoco2.com</a> | Page description:<br>Terminal diagram =P15(i)_P28(i)+SS01-40X1 | Project-No.: | Project designation: |                                                        | = AUS06              |                       |
|    |            |      | Editor |            |                                                                                                                              |                                                                                                                                                 |                                                                |              |                      | <b>Dry Ice Pelletizer P15 EVO / P28 EVO CE US V532</b> |                      | +                     |
| on | Date       | Name |        |            |                                                                                                                              |                                                                                                                                                 |                                                                |              |                      | Scheme-No.:                                            | Scheme-No. Customer: | Project-No. Customer: |

Terminal diagram

| function text                   |  |  |  |  |  |  |  |  | Cable name | Terminal strip<br>=P15(i)_P28(i)+SS01<br><b>-41X1</b><br>24VDC 1 |                     |              |       |        |                                |                     | Cable name |  |  |  |  | Page / column |       |
|---------------------------------|--|--|--|--|--|--|--|--|------------|------------------------------------------------------------------|---------------------|--------------|-------|--------|--------------------------------|---------------------|------------|--|--|--|--|---------------|-------|
|                                 |  |  |  |  |  |  |  |  | cable type | Target designation<br>External                                   | Connection<br>point | terminal     | Level | jumper | Target designation<br>Internal | Connection<br>point | cable type |  |  |  |  |               |       |
| 24VDC controller (CPU HMI EWON) |  |  |  |  |  |  |  |  |            | -50KF11                                                          | X80:1               | 2 <b>1</b> 1 | 0     | ●      | -41F1                          | 2.1                 |            |  |  |  |  | /41.1         |       |
|                                 |  |  |  |  |  |  |  |  |            | -50KF21                                                          | L+                  | 3            |       |        |                                |                     |            |  |  |  |  |               |       |
| 24VDC controller (CPU HMI EWON) |  |  |  |  |  |  |  |  |            | -61U7                                                            | +                   | 2 <b>2</b> 1 | 0     | ●      | +DR-60A1                       | -X80:1              |            |  |  |  |  |               | /41.1 |
| =                               |  |  |  |  |  |  |  |  |            |                                                                  |                     | <b>3</b>     | 0     | ●      |                                |                     |            |  |  |  |  |               | /41.1 |

Terminal diagram

| function text        |  |  |  |  |  |  |  |         | Cable name | Terminal strip<br>=P15(i)_P28(i)+SS01<br><b>-41X3</b><br>24VDC 2 |                     |              |       |                                                  |                                |                     | Cable name |  |  |  |  |       | Page / column |
|----------------------|--|--|--|--|--|--|--|---------|------------|------------------------------------------------------------------|---------------------|--------------|-------|--------------------------------------------------|--------------------------------|---------------------|------------|--|--|--|--|-------|---------------|
|                      |  |  |  |  |  |  |  |         | cable type | Target designation<br>External                                   | Connection<br>point | terminal     | Level | jumper                                           | Target designation<br>Internal | Connection<br>point | cable type |  |  |  |  |       |               |
| 24VDC General        |  |  |  |  |  |  |  |         |            | +DR-60S5                                                         | 13                  | 2 <b>1</b> 1 | 0     | <div>●<br/> <br/>●<br/> <br/>●<br/> <br/>●</div> | -41F3                          | 2.1                 |            |  |  |  |  | /41.3 |               |
|                      |  |  |  |  |  |  |  | -10Q5   |            | 21                                                               | 3                   |              |       |                                                  |                                |                     |            |  |  |  |  |       |               |
|                      |  |  |  |  |  |  |  | -50KF41 |            | L+                                                               | 4                   |              |       |                                                  |                                |                     |            |  |  |  |  |       |               |
| 24VDC General        |  |  |  |  |  |  |  | -40G1   |            | 11                                                               | 2 <b>2</b> 1        | 0            |       |                                                  | -15Q1                          | 13                  |            |  |  |  |  |       | /41.3         |
|                      |  |  |  |  |  |  |  | -15Q2   |            | A1                                                               | 3                   |              |       |                                                  |                                |                     |            |  |  |  |  |       |               |
|                      |  |  |  |  |  |  |  | -16Q5   |            | 21                                                               | 4                   |              |       |                                                  |                                |                     |            |  |  |  |  |       |               |
| 24VDC General        |  |  |  |  |  |  |  | -120X1  |            | 1:1                                                              | 2 <b>3</b> 1        | 0            |       |                                                  | -110X1                         | 1:1                 |            |  |  |  |  |       | /41.3         |
|                      |  |  |  |  |  |  |  | -16X1   |            | 5:1                                                              | 4                   |              |       |                                                  |                                |                     |            |  |  |  |  |       |               |
| 24VDC EMERGENCY STOP |  |  |  |  |  |  |  | -50KF21 |            | 3                                                                | 4 <b>4</b>          | 0            |       |                                                  |                                |                     |            |  |  |  |  |       | /41.4         |

Terminal diagram

| function text        |  |  |  |  |  |  |  |  | Cable name | Terminal strip<br>=P15(i)_P28(i)+SS01<br><b>-41X5</b><br>24VDC 3 |                     |              |       |        |                                |                     | Cable name |  |  |  |  | Page / column |
|----------------------|--|--|--|--|--|--|--|--|------------|------------------------------------------------------------------|---------------------|--------------|-------|--------|--------------------------------|---------------------|------------|--|--|--|--|---------------|
|                      |  |  |  |  |  |  |  |  | cable type | Target designation<br>External                                   | Connection<br>point | terminal     | Level | jumper | Target designation<br>Internal | Connection<br>point | cable type |  |  |  |  |               |
| 24VDC EMERGENCY STOP |  |  |  |  |  |  |  |  |            | -50KF51                                                          | 1L                  | 4 <b>1</b> 1 | 0     | ⋮      | -41F5                          | 2.1                 |            |  |  |  |  | /41.5         |
| =                    |  |  |  |  |  |  |  |  |            | -50KF21                                                          | 4                   | 4 <b>2</b>   | 0     | ⋮      |                                |                     |            |  |  |  |  | /41.5         |

Terminal diagram

| function text     |  |  |  |  |  |  |  |  | Cable name | Terminal strip<br>=P15(i)_P28(i)+SS01<br><b>-41X7</b><br>24VDC 4 |                     |              |       |             |                                |                     | Cable name |  |  |  |  | Page / column |
|-------------------|--|--|--|--|--|--|--|--|------------|------------------------------------------------------------------|---------------------|--------------|-------|-------------|--------------------------------|---------------------|------------|--|--|--|--|---------------|
|                   |  |  |  |  |  |  |  |  | cable type | Target designation<br>External                                   | Connection<br>point | terminal     | Level | jumper      | Target designation<br>Internal | Connection<br>point | cable type |  |  |  |  |               |
| 24VDC Interface 1 |  |  |  |  |  |  |  |  |            | -69X1                                                            | 5:1                 | 2 <b>1</b> 1 | 0     | ●<br> <br>● | -41F7                          | 2.1                 |            |  |  |  |  | /41.7         |
|                   |  |  |  |  |  |  |  |  |            | -66X1                                                            | 1:1                 | 3            |       |             |                                |                     |            |  |  |  |  |               |
|                   |  |  |  |  |  |  |  |  |            | -69X1                                                            | 1:1                 | 4            |       |             |                                |                     |            |  |  |  |  |               |
| 24VDC Interface 1 |  |  |  |  |  |  |  |  |            | -70X1                                                            | 3:1                 | 4 <b>2</b> 1 | 0     | ●           | -68T1                          | 7                   |            |  |  |  |  | /41.7         |
| =                 |  |  |  |  |  |  |  |  |            | -50KF21                                                          | 5                   | 4 <b>3</b>   | 0     | ●           |                                |                     |            |  |  |  |  | /41.7         |

Terminal diagram

| function text |  |  |  |  |  |  |  | Cable name | Terminal strip<br>=P15(i)_P28(i)+SS01<br><b>-65X1</b><br>Interface 1 Emergency stop |                  |          |       |        |                             | Cable name       |            |  |  |  | Page / column |
|---------------|--|--|--|--|--|--|--|------------|-------------------------------------------------------------------------------------|------------------|----------|-------|--------|-----------------------------|------------------|------------|--|--|--|---------------|
|               |  |  |  |  |  |  |  | +EXT-6SW1  |                                                                                     | Connection point | terminal | Level | jumper | Target designation Internal | Connection point | cable type |  |  |  |               |
|               |  |  |  |  |  |  |  | 1          | ÖLFLEX® CLASSIC 110 CY<br>18x1,5 mm²                                                |                  | 4        | 1     | 1      | •                           | -10Q6            | 74         |  |  |  | /65.0         |
|               |  |  |  |  |  |  |  | 2          |                                                                                     |                  | 3        | 2     | 2      | •                           | -10Q6            | 84         |  |  |  | /65.0         |
|               |  |  |  |  |  |  |  | 3          |                                                                                     |                  | 4        | 1     | 1      | •                           | -10Q5            | 73         |  |  |  | /65.0         |
|               |  |  |  |  |  |  |  | 4          |                                                                                     |                  | 3        | 2     | 2      | •                           | -10Q5            | 83         |  |  |  | /65.1         |
|               |  |  |  |  |  |  |  |            |                                                                                     |                  | 5        | 1     | 1      | •                           |                  |            |  |  |  | /65.1         |
|               |  |  |  |  |  |  |  |            |                                                                                     |                  | 6        | 2     | 2      | •                           |                  |            |  |  |  | /65.1         |
|               |  |  |  |  |  |  |  |            |                                                                                     |                  | 7        | 1     | 1      | •                           | +DR-60S7         | 31         |  |  |  | /65.1         |
|               |  |  |  |  |  |  |  |            |                                                                                     |                  | 8        | 2     | 2      | •                           | +DR-60S7         | 21         |  |  |  | /65.2         |
|               |  |  |  |  |  |  |  |            |                                                                                     |                  | 9        | 1     | 1      | •                           | -50KF51          | 1          |  |  |  | /65.2         |
|               |  |  |  |  |  |  |  |            |                                                                                     |                  | 10       | 2     | 2      | •                           | -50KF51          | 2          |  |  |  | /65.2         |



Terminal diagram

| function text                                                                |  |  |  |  |  |  |  |  | Cable name | Terminal strip<br>=P15(i)_P28(i)+SS01<br><b>-68X1</b><br>Interface 1 |                                |                     |          |          |        |                                | Cable name          | -68W1.2    |                                       |  |    |  | Page / column |  |       |
|------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|------------|----------------------------------------------------------------------|--------------------------------|---------------------|----------|----------|--------|--------------------------------|---------------------|------------|---------------------------------------|--|----|--|---------------|--|-------|
|                                                                              |  |  |  |  |  |  |  |  | +EXT-65W1  | cable type                                                           | Target designation<br>External | Connection<br>point | terminal | Level    | jumper | Target designation<br>Internal | Connection<br>point | cable type | LÜTZE ELECTRONIC<br>LY(C)Y 3x0,34 mm² |  |    |  |               |  |       |
| Interface 1 Specification of production speed remotely (4...20mA = 0...100%) |  |  |  |  |  |  |  |  | 16         |                                                                      |                                |                     | 4        | <b>1</b> | 1      | 1                              | •                   | -68T1      | 1                                     |  | BN |  |               |  | /68.1 |
| =                                                                            |  |  |  |  |  |  |  |  | 17         |                                                                      |                                |                     | 3        | <b>2</b> | 2      | 2                              | •                   | -68T1      | 2                                     |  | WH |  |               |  | /68.1 |
| =                                                                            |  |  |  |  |  |  |  |  |            |                                                                      |                                |                     |          | <b>3</b> |        | 1                              | •                   |            |                                       |  |    |  |               |  | /68.2 |
| =                                                                            |  |  |  |  |  |  |  |  | SH         |                                                                      | +EXT-65W1                      | SH                  | 3        | <b>4</b> | 2      | 2                              | •                   | -68W1.2    | SH                                    |  | SH |  |               |  | /68.2 |

Terminal diagram

| function text     |  |  |  |  |  |  |  | Cable name<br>+EXT-69W1        | cable type<br>LUTZE SLIN EX® N(C)<br>PVC MULTIDORN 12x1,5<br>mm² | Terminal strip<br>=P15(i)_P28(i)+SS01<br><b>-69X1</b><br>Interface 1 ASCO CO2 detector |          |       |           |                                |                     |                                                      | Cable name<br>-69W3 |     |  |    | Page / column |  |  |       |
|-------------------|--|--|--|--|--|--|--|--------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------|-------|-----------|--------------------------------|---------------------|------------------------------------------------------|---------------------|-----|--|----|---------------|--|--|-------|
|                   |  |  |  |  |  |  |  | Target designation<br>External |                                                                  | Connection<br>point                                                                    | terminal | Level | jumper    | Target designation<br>Internal | Connection<br>point | cable type<br>LUTZE ELECTRONIC<br>LV(C) / 3x0,34 mm² |                     |     |  |    |               |  |  |       |
| ASCO CO2 Detector |  |  |  |  |  |  |  | 1                              |                                                                  | +EXT-69A1                                                                              | PW+      | 4     | <b>1</b>  | 1                              | 1                   | •                                                    | -41X7               | 1:4 |  |    |               |  |  | /69.0 |
| =                 |  |  |  |  |  |  |  | 2                              |                                                                  | +EXT-69A1                                                                              | PW-      | 3     | <b>2</b>  | 2                              | 2                   | •                                                    | -40X1               | 5:2 |  |    |               |  |  | /69.0 |
| =                 |  |  |  |  |  |  |  | 3                              |                                                                  | +EXT-69A1                                                                              | CLO1     | 4     | <b>3</b>  | 1                              | 1                   | •                                                    | -50KF32             | 3   |  | BN |               |  |  | /69.3 |
| =                 |  |  |  |  |  |  |  | 4                              |                                                                  | +EXT-69A1                                                                              | GND      | 3     | <b>4</b>  | 2                              | 2                   | •                                                    | -50KF32             | 7   |  | WH |               |  |  | /69.3 |
| =                 |  |  |  |  |  |  |  | 6                              |                                                                  | +EXT-69A1                                                                              | 31       | 4     | <b>5</b>  | 1                              | 1                   | •                                                    | -41X7               | 1:2 |  |    |               |  |  | /69.6 |
| =                 |  |  |  |  |  |  |  | 7                              |                                                                  | +EXT-69A1                                                                              | 33       | 3     | <b>6</b>  | 2                              | 2                   | •                                                    | -50KF25             | 9   |  |    |               |  |  | /69.6 |
| =                 |  |  |  |  |  |  |  | 8                              |                                                                  | +EXT-69A1                                                                              | 23       | 4     | <b>7</b>  | 1                              | 1                   | •                                                    | -50KF25             | 10  |  |    |               |  |  | /69.7 |
| =                 |  |  |  |  |  |  |  | 9                              |                                                                  | +EXT-69A1                                                                              | 13       | 3     | <b>8</b>  | 2                              | 2                   | •                                                    | -50KF25             | 11  |  |    |               |  |  | /69.8 |
| =                 |  |  |  |  |  |  |  | GNYE                           |                                                                  | +EXT-69A1                                                                              | PE       | 4     | <b>9</b>  |                                | 1                   | •                                                    |                     |     |  |    |               |  |  | /69.9 |
| =                 |  |  |  |  |  |  |  | SH                             |                                                                  | +EXT-69W1                                                                              | SH       | 3     | <b>10</b> |                                | 2                   | •                                                    |                     |     |  |    |               |  |  | /69.9 |

Terminal diagram

| function text                                             |  |  |  |  |  |  |  |  | Cable name | Terminal strip<br>=P15(i)_P28(i)+SS01<br><b>-70X1</b><br>Interface 1 conveyor belt |                     |          |          |        |                                |                     | Cable name |     |  |  |  |  | Page / column |       |
|-----------------------------------------------------------|--|--|--|--|--|--|--|--|------------|------------------------------------------------------------------------------------|---------------------|----------|----------|--------|--------------------------------|---------------------|------------|-----|--|--|--|--|---------------|-------|
|                                                           |  |  |  |  |  |  |  |  | cable type | Target designation<br>External                                                     | Connection<br>point | terminal | Level    | jumper | Target designation<br>Internal | Connection<br>point | cable type |     |  |  |  |  |               |       |
| Interface 1 Start the conveyor belt (1 = start, 0 = stop) |  |  |  |  |  |  |  |  |            | +CVB-20X2                                                                          | 4                   | 4        | <b>1</b> | 1      | 1                              | •                   | -70K1      | 11  |  |  |  |  |               | /70.1 |
| =                                                         |  |  |  |  |  |  |  |  |            | +CVB-20X2                                                                          | 5                   | 3        | <b>2</b> | 2      | 2                              | •                   | -70K1      | 14  |  |  |  |  |               | /70.1 |
| Interface 1 conveyor belt (1 = active, 0 = stopped)       |  |  |  |  |  |  |  |  |            | +CVB-20X2                                                                          | 8                   | 4        | <b>3</b> | 1      | 1                              | •                   | -41X7      | 2:4 |  |  |  |  |               | /70.5 |
| =                                                         |  |  |  |  |  |  |  |  |            | +CVB-20X2                                                                          | 9                   | 3        | <b>4</b> | 2      | 2                              | •                   | -50KF25    | 16  |  |  |  |  |               | /70.5 |
| =                                                         |  |  |  |  |  |  |  |  |            | +CVB-20X2                                                                          | PE                  | 4        | <b>5</b> |        | 1                              | •                   |            |     |  |  |  |  |               | /70.5 |
| =                                                         |  |  |  |  |  |  |  |  |            |                                                                                    |                     |          | <b>6</b> |        | 2                              | •                   |            |     |  |  |  |  |               | /70.6 |



Terminal diagram

| function text                   |  |  |  |  |  |  |  | +EXT-120W1                                        | Cable name | Terminal strip<br>=P15(i)_P28(i)+SS01<br><b>-120X1</b><br>Plant part 1 linear measurement |                     |              |       |        |                                |                     | Cable name |  |  |  |  |  | Page / column |
|---------------------------------|--|--|--|--|--|--|--|---------------------------------------------------|------------|-------------------------------------------------------------------------------------------|---------------------|--------------|-------|--------|--------------------------------|---------------------|------------|--|--|--|--|--|---------------|
|                                 |  |  |  |  |  |  |  |                                                   |            | Target designation<br>External                                                            | Connection<br>point | terminal     | Level | jumper | Target designation<br>Internal | Connection<br>point |            |  |  |  |  |  |               |
| Plant part 1 linear measurement |  |  |  |  |  |  |  | BCC<br>M428-0000-1A-133-PS0825-0002<br>8x0.25 mm² |            | +EXT-120B1                                                                                | 7                   | 4 <b>1</b> 1 | 1     | •      | -41X3                          | 3:2                 |            |  |  |  |  |  | /120.1        |
| =                               |  |  |  |  |  |  |  | BU                                                |            | +EXT-120B1                                                                                | 6                   | 3 <b>2</b> 2 | 2     | •      | -40X1                          | 4:3                 |            |  |  |  |  |  | /120.1        |
| =                               |  |  |  |  |  |  |  | GN                                                |            | +EXT-120B1                                                                                | 5                   | 4 <b>3</b> 1 | 1     | •      | -50KF31                        | 5                   |            |  |  |  |  |  | /120.1        |
| =                               |  |  |  |  |  |  |  | GY                                                |            | +EXT-120B1                                                                                | 2                   | 3 <b>4</b> 2 | 2     | •      | -50KF31                        | 7                   |            |  |  |  |  |  | /120.1        |
| =                               |  |  |  |  |  |  |  | PK                                                |            | +EXT-120B1                                                                                | 3                   | 4 <b>5</b>   | 1     | •      |                                |                     |            |  |  |  |  |  | /120.1        |
| =                               |  |  |  |  |  |  |  | YE                                                |            | +EXT-120B1                                                                                | 1                   | 3 <b>6</b>   | 2     | •      |                                |                     |            |  |  |  |  |  | /120.2        |
| =                               |  |  |  |  |  |  |  | RD                                                |            | +EXT-120B1                                                                                | 4                   | 4 <b>7</b>   | 1     | •      |                                |                     |            |  |  |  |  |  | /120.2        |
| =                               |  |  |  |  |  |  |  | WH                                                |            | +EXT-120B1                                                                                | 8                   | 3 <b>8</b>   | 2     | •      |                                |                     |            |  |  |  |  |  | /120.2        |
| =                               |  |  |  |  |  |  |  | SH                                                |            | +EXT-120W1                                                                                | SH                  | 4 <b>9</b>   | 1     | •      |                                |                     |            |  |  |  |  |  | /120.2        |
| =                               |  |  |  |  |  |  |  |                                                   |            |                                                                                           |                     | <b>10</b>    | 2     | •      |                                |                     |            |  |  |  |  |  | /120.2        |

Terminal diagram

| function text                               |  |  |  |  |  |  |  | +EXT-120W5     | Cable name | Terminal strip<br>=P15(i)_P28(i)+SS01<br><b>-120X5</b><br>Plant part 1 pressure measurement hydraulic |                     |          |          |        |                                |                     | Cable name |  |   |  |        | Page / column |        |
|---------------------------------------------|--|--|--|--|--|--|--|----------------|------------|-------------------------------------------------------------------------------------------------------|---------------------|----------|----------|--------|--------------------------------|---------------------|------------|--|---|--|--------|---------------|--------|
|                                             |  |  |  |  |  |  |  | PUR 4x0,34 mm² | cable type | Target designation<br>External                                                                        | Connection<br>point | terminal | Level    | jumper | Target designation<br>Internal | Connection<br>point | cable type |  |   |  |        |               |        |
| Plant part 1 pressure measurement hydraulic |  |  |  |  |  |  |  | BN             |            | +EXT-120B5                                                                                            | 1                   | 4        | <b>1</b> | 1      | •                              | -50KF31             | 10         |  |   |  |        | /120.5        |        |
| =                                           |  |  |  |  |  |  |  | WH             |            | +EXT-120B5                                                                                            | 2                   | 3        | <b>2</b> | 2      | •                              |                     |            |  |   |  | /120.5 |               |        |
| =                                           |  |  |  |  |  |  |  | BU             |            | +EXT-120B5                                                                                            | 3                   | 4        | <b>3</b> | 1      | 1                              | •                   | -50KF31    |  | 6 |  |        |               | /120.5 |
| =                                           |  |  |  |  |  |  |  | BK             |            | +EXT-120B5                                                                                            | 4                   | 3        | <b>4</b> |        | 2                              | •                   |            |  |   |  |        | /120.6        |        |
| =                                           |  |  |  |  |  |  |  |                |            |                                                                                                       |                     |          | <b>5</b> | 1      | •                              |                     |            |  |   |  |        | /120.6        |        |
| =                                           |  |  |  |  |  |  |  | SH             |            | +EXT-120W5                                                                                            | SH                  | 3        | <b>6</b> |        | 2                              | •                   |            |  |   |  |        | /120.6        |        |

Terminal diagram

| function text                          |  |  |  |  |  |  |  | Cable name | Terminal strip<br>=P15(i)_P28(i)+SS01<br><b>-120X7</b><br>Plant part 1 Pressure measurement CO2 |            |       |        |                                |                  |            | Cable name |         |    |  |  | Page / column |  |        |
|----------------------------------------|--|--|--|--|--|--|--|------------|-------------------------------------------------------------------------------------------------|------------|-------|--------|--------------------------------|------------------|------------|------------|---------|----|--|--|---------------|--|--------|
|                                        |  |  |  |  |  |  |  |            | Connection point                                                                                | terminal   | Level | jumper | Target designation<br>Internal | Connection point | cable type |            |         |    |  |  |               |  |        |
| Plant part 1 Pressure measurement CO2  |  |  |  |  |  |  |  | BN         |                                                                                                 | +EXT-120B7 | 1     | 4      | <b>1</b>                       | 1                | 1          | •          | -50KF32 | 9  |  |  |               |  | /120.7 |
| =                                      |  |  |  |  |  |  |  | BU         |                                                                                                 | +EXT-120B7 | 3     | 3      | <b>2</b>                       | 2                | 2          | •          | -50KF32 | 13 |  |  |               |  | /120.7 |
| Plant part 1 Hydraulic oil temperature |  |  |  |  |  |  |  |            |                                                                                                 |            |       |        | <b>3</b>                       | 1                | •          |            |         |    |  |  |               |  | /120.8 |
| =                                      |  |  |  |  |  |  |  | SH         |                                                                                                 | +EXT-120W7 | SH    | 3      | <b>4</b>                       | 2                | •          |            |         |    |  |  |               |  | /120.8 |

Terminal diagram

| function text                          |  |  |  |  |  |  |  | +EXT-120W9     | Cable name | Terminal strip<br>=P15(i)_P28(i)+SS01<br><b>-120X9</b> |                     |          |          |        |                                |                     | Cable name |    |  |  |  | Page / column |        |        |
|----------------------------------------|--|--|--|--|--|--|--|----------------|------------|--------------------------------------------------------|---------------------|----------|----------|--------|--------------------------------|---------------------|------------|----|--|--|--|---------------|--------|--------|
|                                        |  |  |  |  |  |  |  | PUR 4x0,34 mm² | cable type | Target designation<br>External                         | Connection<br>point | terminal | Level    | jumper | Target designation<br>Internal | Connection<br>point | cable type |    |  |  |  |               |        |        |
| Plant part 1 Hydraulic oil temperature |  |  |  |  |  |  |  | BN             |            | +EXT-120B9                                             | 1                   | 4        | <b>1</b> | 1      | 1                              | •                   | -50KF32    | 10 |  |  |  |               |        | /120.9 |
| =                                      |  |  |  |  |  |  |  | WH             |            | +EXT-120B9                                             | 2                   | 3        | <b>2</b> |        | 2                              | •                   |            |    |  |  |  | /120.9        |        |        |
| =                                      |  |  |  |  |  |  |  | BU             |            | +EXT-120B9                                             | 3                   | 4        | <b>3</b> | 1      | 1                              | •                   | -50KF32    | 14 |  |  |  |               |        | /120.9 |
| =                                      |  |  |  |  |  |  |  | BK             |            | +EXT-120B9                                             | 4                   | 3        | <b>4</b> |        | 2                              | •                   |            |    |  |  |  |               | /120.9 |        |
| =                                      |  |  |  |  |  |  |  |                |            |                                                        |                     |          | <b>5</b> |        | 1                              | •                   |            |    |  |  |  |               | /120.9 |        |
| =                                      |  |  |  |  |  |  |  | SH             |            | +EXT-120W9                                             | SH                  | 3        | <b>6</b> |        | 2                              | •                   |            |    |  |  |  |               | /120.9 |        |

Terminal diagram

| function text            |  |  |  |  |  |  | +EXT-130W3                                  | +EXT-130W1                                  | Cable name | Terminal strip<br>=P15(i)_P28(i)+SS01<br><b>-130X1</b><br>Plant part 1 CO2 valve 1 |                     |          |          |        |                                |                     | Cable name |    |  |  |  | Page / column |        |
|--------------------------|--|--|--|--|--|--|---------------------------------------------|---------------------------------------------|------------|------------------------------------------------------------------------------------|---------------------|----------|----------|--------|--------------------------------|---------------------|------------|----|--|--|--|---------------|--------|
|                          |  |  |  |  |  |  | LÜTZE STUFLEX® N PVC<br>MULTINORM 3x0,5 mm² | LÜTZE STUFLEX® N PVC<br>MULTINORM 3x0,5 mm² | cable type | Target designation<br>External                                                     | Connection<br>point | terminal | Level    | jumper | Target designation<br>Internal | Connection<br>point | cable type |    |  |  |  |               |        |
| Plant part 1 CO2 valve 1 |  |  |  |  |  |  |                                             | 1                                           |            | +EXT-130X1                                                                         |                     | 4        | <b>1</b> | 1      | 1                              | •                   | -50KF53    | 1  |  |  |  |               | /130.1 |
| =                        |  |  |  |  |  |  |                                             | 2                                           |            | +EXT-130X1                                                                         |                     | 3        | <b>2</b> | 2      | 2                              | •                   | -50KF53    | 9  |  |  |  |               | /130.1 |
| =                        |  |  |  |  |  |  |                                             | GNYE                                        |            | +EXT-130X1                                                                         |                     | 4        | <b>3</b> |        | 1                              | •                   |            |    |  |  |  |               | /130.2 |
| =                        |  |  |  |  |  |  |                                             |                                             |            |                                                                                    |                     |          | <b>4</b> |        | 2                              | •                   |            |    |  |  |  |               | /130.2 |
| Plant part 1 CO2 valve 2 |  |  |  |  |  |  | 1                                           |                                             |            | +EXT-130X3                                                                         |                     | 4        | <b>5</b> | 1      | 1                              | •                   | -50KF53    | 2  |  |  |  |               | /130.3 |
| =                        |  |  |  |  |  |  | 2                                           |                                             |            | +EXT-130X3                                                                         |                     | 3        | <b>6</b> | 2      | 2                              | •                   | -50KF53    | 10 |  |  |  |               | /130.3 |
| =                        |  |  |  |  |  |  | GNYE                                        |                                             |            | +EXT-130X3                                                                         |                     | 4        | <b>7</b> |        | 1                              | •                   |            |    |  |  |  |               | /130.4 |
| =                        |  |  |  |  |  |  |                                             |                                             |            |                                                                                    |                     |          | <b>8</b> |        | 2                              | •                   |            |    |  |  |  |               | /130.4 |

Terminal diagram

| function text               |  |  |  |  |  |  |  | +EXT-130W7 | +EXT-130W5 | Cable name | Terminal strip<br>=P15(i)_P28(i)+SS01<br><b>-130X5</b><br>Plant part 1 valve forward |                     |          |          |        |                                |                     | Cable name |    |  |  |  |  | Page / column |        |
|-----------------------------|--|--|--|--|--|--|--|------------|------------|------------|--------------------------------------------------------------------------------------|---------------------|----------|----------|--------|--------------------------------|---------------------|------------|----|--|--|--|--|---------------|--------|
|                             |  |  |  |  |  |  |  |            |            | cable type | Target designation<br>External                                                       | Connection<br>point | terminal | Level    | jumper | Target designation<br>Internal | Connection<br>point | cable type |    |  |  |  |  |               |        |
| Plant part 1 valve forward  |  |  |  |  |  |  |  |            | 1          |            | +EXT-130Y5                                                                           | A1                  | 4        | <b>1</b> | 1      | 1                              | •                   | -50KF53    | 3  |  |  |  |  |               | /130.6 |
| =                           |  |  |  |  |  |  |  |            | 2          |            | +EXT-130Y5                                                                           | A2                  | 3        | <b>2</b> | 2      | 2                              | •                   | -50KF53    | 11 |  |  |  |  |               | /130.6 |
| =                           |  |  |  |  |  |  |  |            | GNYE       |            | +EXT-130Y5                                                                           | PE                  | 4        | <b>3</b> |        | 1                              | •                   |            |    |  |  |  |  |               | /130.7 |
| =                           |  |  |  |  |  |  |  |            |            |            |                                                                                      |                     |          | <b>4</b> |        | 2                              | •                   |            |    |  |  |  |  |               | /130.7 |
| Plant part 1 valve backward |  |  |  |  |  |  |  | 1          |            |            | +EXT-130Y7                                                                           | A1                  | 4        | <b>5</b> | 1      | 1                              | •                   | -50KF53    | 4  |  |  |  |  |               | /130.8 |
| =                           |  |  |  |  |  |  |  | 2          |            |            | +EXT-130Y7                                                                           | A2                  | 3        | <b>6</b> | 2      | 2                              | •                   | -50KF53    | 12 |  |  |  |  |               | /130.8 |
| =                           |  |  |  |  |  |  |  | GNYE       |            |            | +EXT-130Y7                                                                           | PE                  | 4        | <b>7</b> |        | 1                              | •                   |            |    |  |  |  |  |               | /130.9 |
| =                           |  |  |  |  |  |  |  |            |            |            |                                                                                      |                     |          | <b>8</b> |        | 2                              | •                   |            |    |  |  |  |  |               | /130.9 |

Terminal diagram

| function text     |  |  |  |  |  |  |  |  | Cable name | Terminal strip<br>=P15(i)_P28(i)+SS01<br><b>-40XT5</b><br>Power supply unit Disconnect terminal |                     |          |          |        |                                                                                     |                                                                                     | Cable name |  |     |  |  | Page / column |       |       |
|-------------------|--|--|--|--|--|--|--|--|------------|-------------------------------------------------------------------------------------------------|---------------------|----------|----------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|--|-----|--|--|---------------|-------|-------|
|                   |  |  |  |  |  |  |  |  | cable type | Target designation<br>External                                                                  | Connection<br>point | terminal | Level    | jumper | Target designation<br>Internal                                                      | Connection<br>point                                                                 | cable type |  |     |  |  |               |       |       |
| Power supply unit |  |  |  |  |  |  |  |  |            |                                                                                                 |                     | <b>1</b> | 1        | 0      |  | -40X1                                                                               | 6:2        |  |     |  |  |               | /40.5 |       |
| =                 |  |  |  |  |  |  |  |  |            | +DR-60A1                                                                                        | -X80:FE             | 2        | <b>2</b> | 1      | 0                                                                                   |  | -40G1      |  | 1.4 |  |  |               |       | /40.5 |
|                   |  |  |  |  |  |  |  |  |            | -61U7                                                                                           | PE                  | 3        |          |        |                                                                                     |                                                                                     |            |  |     |  |  |               |       |       |
| Power supply unit |  |  |  |  |  |  |  |  |            | +EXT-10PE1                                                                                      | PE                  | 2        | <b>3</b> | 1      | 0                                                                                   |  | +DR-10PE3  |  | PE  |  |  |               |       | /40.6 |



## Terminal line-up diagram

[illegible]

Hydraulic motor 1

=P15(i)\_P28(i)  
+SS01  
-15X1

|   |  |  |                                                                                     |
|---|--|--|-------------------------------------------------------------------------------------|
|   |  |  |                                                                                     |
|   |  |  |  |
|   |  |  |  |
| 1 |  |  |  |
| 2 |  |  |                                                                                     |
| 3 |  |  |                                                                                     |
| 4 |  |  |                                                                                     |

Terminal line-up diagram

| Part number   |              |               |                |                |             |
|---------------|--------------|---------------|----------------|----------------|-------------|
| Mounting rail |              |               | Strip label    | End angle rear | End plate   |
|               |              |               |                | WAGO.249-117   | PXC.3210443 |
| Terminal      |              |               |                |                |             |
| Part number   | Type number  | Cross-section | Terminal label | Jumper         | Cover       |
| WAGO.249-117  | 249-117      |               |                |                |             |
| PXC.3210443   | D-PT 4-PE/3L |               |                |                |             |
| PXC.3210442   | PT 4-PE/3L   |               |                |                |             |
|               |              |               |                |                |             |
|               |              |               |                |                |             |
|               |              |               |                |                |             |
|               |              |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S  | 1.5           |                |                |             |
|               |              |               |                |                |             |
|               |              |               |                |                |             |
|               |              |               |                |                |             |
|               |              |               |                |                |             |
|               |              |               |                |                |             |
|               |              |               |                |                |             |
|               |              |               |                |                |             |
|               |              |               |                |                |             |
|               |              |               |                |                |             |

Hydraulic motor 1  
Fan

=P15(i)\_P28(i)  
+SS01  
-16X1

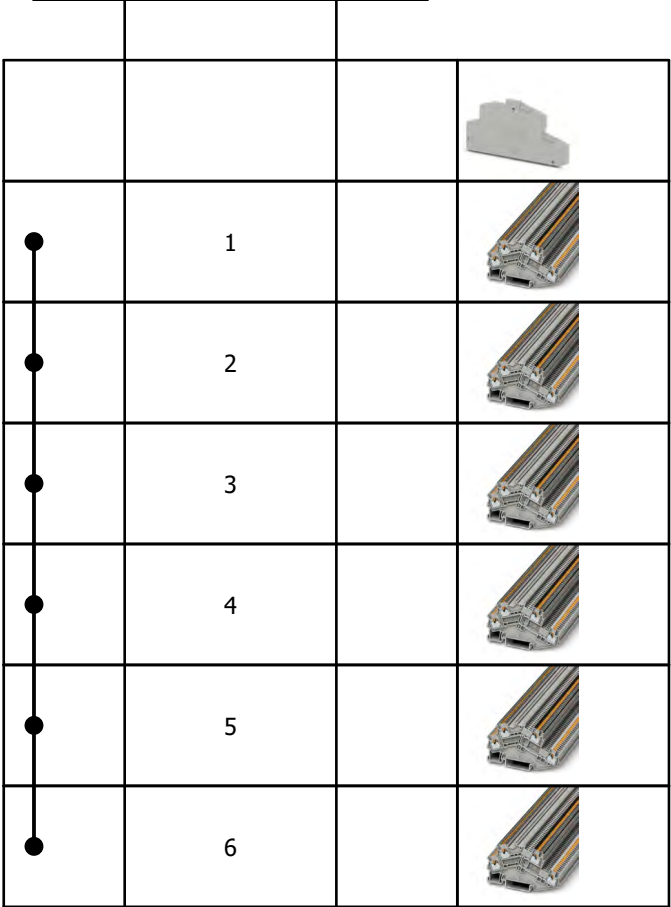
|   |   |  |                                                                                       |
|---|---|--|---------------------------------------------------------------------------------------|
|   |   |  |    |
|   |   |  |    |
| ' | 1 |  |    |
| ' | 2 |  |                                                                                       |
| ' | 3 |  |                                                                                       |
|   | 4 |  |                                                                                       |
| ' | 5 |  |  |
| ' | 6 |  |                                                                                       |

Terminal line-up diagram

| Part number   |                |               |                |                |             |
|---------------|----------------|---------------|----------------|----------------|-------------|
| Mounting rail |                |               | Strip label    | End angle rear | End plate   |
|               |                |               |                |                | PXC.3214699 |
| Terminal      |                |               |                |                |             |
| Part number   | Type number    | Cross-section | Terminal label | Jumper         | Cover       |
| PXC.3214699   | D-PTTBS 1,5/S  |               |                |                |             |
| PXC.3214686   | PTTBS 1,5/S-PV | 1.5           |                |                |             |
| PXC.3214686   | PTTBS 1,5/S-PV | 1.5           |                |                |             |
| PXC.3214686   | PTTBS 1,5/S-PV | 1.5           |                |                |             |
| PXC.3214686   | PTTBS 1,5/S-PV | 1.5           |                |                |             |
| PXC.3214686   | PTTBS 1,5/S-PV | 1.5           |                |                |             |
| PXC.3214686   | PTTBS 1,5/S-PV | 1.5           |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |

0VDC

=P15(i)\_P28(i)  
+SS01  
-40X1



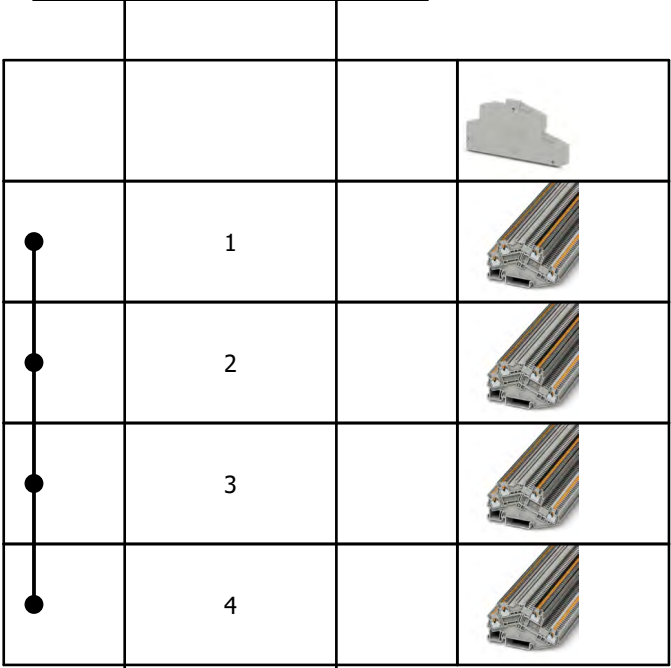


Terminal line-up diagram

| Part number   |                |               |                |                |             |
|---------------|----------------|---------------|----------------|----------------|-------------|
| Mounting rail |                |               | Strip label    | End angle rear | End plate   |
|               |                |               |                |                | PXC.3214699 |
| Terminal      |                |               |                |                |             |
| Part number   | Type number    | Cross-section | Terminal label | Jumper         | Cover       |
| PXC.3214699   | D-PTTBS 1,5/S  |               |                |                |             |
| PXC.3214686   | PTTBS 1,5/S-PV | 1.5           |                |                |             |
| PXC.3214686   | PTTBS 1,5/S-PV | 1.5           |                |                |             |
| PXC.3214686   | PTTBS 1,5/S-PV | 1.5           |                |                |             |
| PXC.3214686   | PTTBS 1,5/S-PV | 1.5           |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |

24VDC 2

=P15(i)\_P28(i)  
+SS01  
-41X3



$$=P15(i)_{-}P28(i) +SS01 -41X5$$

|                                                                                     |   |  |                                                                                     |
|-------------------------------------------------------------------------------------|---|--|-------------------------------------------------------------------------------------|
|                                                                                     |   |  |                                                                                     |
|                                                                                     |   |  |  |
|  | 1 |  |  |
|  | 2 |  |  |



Terminal line-up diagram

| Part number   |                |               |                |                |             |
|---------------|----------------|---------------|----------------|----------------|-------------|
| Mounting rail |                |               | Strip label    | End angle rear | End plate   |
|               |                |               |                | WAGO.249-117   | PXC.3214699 |
| Terminal      |                |               |                |                |             |
| Part number   | Type number    | Cross-section | Terminal label | Jumper         | Cover       |
| WAGO.249-117  | 249-117        |               |                |                |             |
| PXC.3214699   | D-PTTBS 1,5/S  |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214673   | PTTBS 1,5/S-PE | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |

Interface 1  
Emergency stop

=P15(i)\_P28(i)  
+SS01  
-65X1

|   |    |  |                                                                                       |
|---|----|--|---------------------------------------------------------------------------------------|
|   |    |  |    |
|   |    |  |    |
| I | 1  |  |    |
| I | 2  |  |                                                                                       |
| I | 3  |  |   |
| I | 4  |  |                                                                                       |
| I | 5  |  |  |
| I | 6  |  |                                                                                       |
| ● | 7  |  |  |
| ● | 8  |  |                                                                                       |
| ● | 9  |  |  |
| ● | 10 |  |                                                                                       |
|   |    |  |                                                                                       |

Terminal line-up diagram

| Part number   |               |               |                |                |             |
|---------------|---------------|---------------|----------------|----------------|-------------|
| Mounting rail |               |               | Strip label    | End angle rear | End plate   |
|               |               |               |                | WAGO.249-117   | PXC.3214699 |
| Terminal      |               |               |                |                |             |
| Part number   | Type number   | Cross-section | Terminal label | Jumper         | Cover       |
| WAGO.249-117  | 249-117       |               |                |                |             |
| PXC.3214699   | D-PTTBS 1,5/S |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S   | 1.5           |                |                |             |
|               |               |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S   | 1.5           |                |                |             |
|               |               |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S   | 1.5           |                |                |             |
|               |               |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S   | 1.5           |                |                |             |
|               |               |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S   | 1.5           |                |                |             |
|               |               |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S   | 1.5           |                |                |             |
|               |               |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S   | 1.5           |                |                |             |
|               |               |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S   | 1.5           |                |                |             |

Interface 1

=P15(i)\_P28(i)  
+SS01  
-66X1

|   |    |  |                                                                                       |
|---|----|--|---------------------------------------------------------------------------------------|
|   |    |  |    |
|   |    |  |    |
| ' | 1  |  |    |
| ' | 2  |  |                                                                                       |
| ' | 3  |  |   |
| ' | 4  |  |                                                                                       |
| ' | 5  |  |  |
| ' | 6  |  |                                                                                       |
| ' | 7  |  |  |
| ' | 8  |  |                                                                                       |
| ' | 9  |  |  |
| ' | 10 |  |                                                                                       |
| ' | 11 |  |  |

Terminal line-up diagram

| Part number   |                |               |                |                |             |
|---------------|----------------|---------------|----------------|----------------|-------------|
| Mounting rail |                |               | Strip label    | End angle rear | End plate   |
|               |                |               |                | WAGO.249-117   | PXC.3214699 |
| Terminal      |                |               |                |                |             |
| Part number   | Type number    | Cross-section | Terminal label | Jumper         | Cover       |
|               |                |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214673   | PTTBS 1,5/S-PE | 1.5           |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |

Interface 1

=P15(i)\_P28(i)  
+SS01  
-66X1

|   |    |  |                                                                                       |
|---|----|--|---------------------------------------------------------------------------------------|
|   |    |  |                                                                                       |
| ' | 12 |  |                                                                                       |
| ' | 13 |  |    |
| ' | 14 |  |                                                                                       |
| ' | 15 |  |    |
| ' | 16 |  |                                                                                       |
| ' | 17 |  |  |
| ' | 18 |  |                                                                                       |

## Terminal line-up diagram

## Interface 1

[illegible]

|                                  |   |  |                                                                                     |
|----------------------------------|---|--|-------------------------------------------------------------------------------------|
| =P15(i)_P28(i)<br>+SS01<br>-68X1 |   |  |                                                                                     |
|                                  |   |  |  |
| 1                                | 1 |  |  |
| 2                                | 2 |  |                                                                                     |
| 3                                | 3 |  |  |
| 4                                | 4 |  |                                                                                     |

Terminal line-up diagram

| Part number   |                |               |                |                |             |
|---------------|----------------|---------------|----------------|----------------|-------------|
| Mounting rail |                |               | Strip label    | End angle rear | End plate   |
|               |                |               |                | WAGO.249-117   | PXC.3214699 |
| Terminal      |                |               |                |                |             |
| Part number   | Type number    | Cross-section | Terminal label | Jumper         | Cover       |
| WAGO.249-117  | 249-117        |               |                |                |             |
| PXC.3214699   | D-PTTBS 1,5/S  |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214673   | PTTBS 1,5/S-PE | 1.5           |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |

Interface 1  
ASCO CO2 detector

=P15(i)\_P28(i)  
+SS01  
-69X1

|   |    |  |                                                                                       |
|---|----|--|---------------------------------------------------------------------------------------|
|   |    |  |    |
|   |    |  |    |
| I | 1  |  |    |
| I | 2  |  |                                                                                       |
| I | 3  |  |   |
| I | 4  |  |                                                                                       |
| I | 5  |  |  |
| I | 6  |  |                                                                                       |
| I | 7  |  |  |
| I | 8  |  |                                                                                       |
| I | 9  |  |  |
| I | 10 |  |                                                                                       |
|   |    |  |                                                                                       |

Terminal line-up diagram

| Part number   |                |               |                |                |             |
|---------------|----------------|---------------|----------------|----------------|-------------|
| Mounting rail |                |               | Strip label    | End angle rear | End plate   |
|               |                |               |                | WAGO.249-117   | PXC.3214699 |
| Terminal      |                |               |                |                |             |
| Part number   | Type number    | Cross-section | Terminal label | Jumper         | Cover       |
| WAGO.249-117  | 249-117        |               |                |                |             |
| PXC.3214699   | D-PTTBS 1,5/S  |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214673   | PTTBS 1,5/S-PE | 1.5           |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |

Interface 1  
conveyor belt

=P15(i)\_P28(i)  
+SS01  
-70X1

|   |   |  |                                                                                       |
|---|---|--|---------------------------------------------------------------------------------------|
|   |   |  |    |
|   |   |  |    |
| ' | 1 |  |    |
| ' | 2 |  |                                                                                       |
| ' | 3 |  |   |
| ' | 4 |  |                                                                                       |
| ' | 5 |  |  |
| ' | 6 |  |                                                                                       |

Terminal line-up diagram

| Part number   |                |               |                |                |             |
|---------------|----------------|---------------|----------------|----------------|-------------|
| Mounting rail |                |               | Strip label    | End angle rear | End plate   |
|               |                |               |                |                | PXC.3214699 |
| Terminal      |                |               |                |                |             |
| Part number   | Type number    | Cross-section | Terminal label | Jumper         | Cover       |
| PXC.3214699   | D-PTTBS 1,5/S  |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214673   | PTTBS 1,5/S-PE | 1.5           |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |

Plant part 1  
oil level

=P15(i)\_P28(i)  
+SS01  
-110X1

|   |   |  |                                                                                       |
|---|---|--|---------------------------------------------------------------------------------------|
|   |   |  |    |
| ' | 1 |  |    |
| ' | 2 |  |                                                                                       |
| ' | 3 |  |    |
| ' | 4 |  |                                                                                       |
| ' | 5 |  |  |
| ' | 6 |  |                                                                                       |

## Terminal line-up diagram

[illegible]

Plant part 1  
oil temperature

```
=P15(i)_P28(i)
+SS01
-110X3
```



Terminal line-up diagram

| Part number   |                |               |                |                |             |
|---------------|----------------|---------------|----------------|----------------|-------------|
| Mounting rail |                |               | Strip label    | End angle rear | End plate   |
|               |                |               |                |                | PXC.3214699 |
| Terminal      |                |               |                |                |             |
| Part number   | Type number    | Cross-section | Terminal label | Jumper         | Cover       |
| PXC.3214699   | D-PTTBS 1,5/S  |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214673   | PTTBS 1,5/S-PE | 1.5           |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |

Plant part 1  
linear measurement

=P15(i)\_P28(i)  
+SS01  
-120X1

|   |    |  |                                                                                       |
|---|----|--|---------------------------------------------------------------------------------------|
|   |    |  |    |
| ' | 1  |  |    |
| ' | 2  |  |                                                                                       |
| ' | 3  |  |    |
| ' | 4  |  |                                                                                       |
| ' | 5  |  |  |
| ' | 6  |  |                                                                                       |
| ' | 7  |  |  |
| ' | 8  |  |                                                                                       |
| ' | 9  |  |  |
| ' | 10 |  |                                                                                       |
|   |    |  |                                                                                       |

Terminal line-up diagram

| Part number   |                |               |                |                |             |
|---------------|----------------|---------------|----------------|----------------|-------------|
| Mounting rail |                |               | Strip label    | End angle rear | End plate   |
|               |                |               |                |                | PXC.3214699 |
| Terminal      |                |               |                |                |             |
| Part number   | Type number    | Cross-section | Terminal label | Jumper         | Cover       |
| PXC.3214699   | D-PTTBS 1,5/S  |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214673   | PTTBS 1,5/S-PE | 1.5           |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |

Plant part 1  
pressure measurement hydraulic

=P15(i)\_P28(i)  
+SS01  
-120X5

|   |   |  |                                                                                       |
|---|---|--|---------------------------------------------------------------------------------------|
|   |   |  |    |
| ' | 1 |  |    |
| ' | 2 |  |                                                                                       |
| ' | 3 |  |    |
| ' | 4 |  |                                                                                       |
| ' | 5 |  |  |
| ' | 6 |  |                                                                                       |

## Terminal line-up diagram

[illegible]

Plant part 1  
Pressure measurement CO2

```
=P15(i)_P28(i)
+SS01
-120X7
```

|   |   |  |                                                                                      |
|---|---|--|--------------------------------------------------------------------------------------|
|   |   |  |   |
|   |   |  |   |
| I | 1 |  |   |
| I | 2 |  |                                                                                      |
| I | 3 |  |  |
| I | 4 |  |                                                                                      |

Terminal line-up diagram

| Part number   |                |               |                |                |           |
|---------------|----------------|---------------|----------------|----------------|-----------|
| Mounting rail |                |               | Strip label    | End angle rear | End plate |
|               |                |               |                |                |           |
| Terminal      |                |               |                |                |           |
| Part number   | Type number    | Cross-section | Terminal label | Jumper         | Cover     |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |           |
|               |                |               |                |                |           |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |           |
|               |                |               |                |                |           |
| PXC.3214673   | PTTBS 1,5/S-PE | 1.5           |                |                |           |
|               |                |               |                |                |           |
|               |                |               |                |                |           |
|               |                |               |                |                |           |
|               |                |               |                |                |           |
|               |                |               |                |                |           |
|               |                |               |                |                |           |
|               |                |               |                |                |           |
|               |                |               |                |                |           |
|               |                |               |                |                |           |
|               |                |               |                |                |           |
|               |                |               |                |                |           |
|               |                |               |                |                |           |
|               |                |               |                |                |           |
|               |                |               |                |                |           |

=P15(i)\_P28(i)  
+SS01  
-120X9

|   |   |  |                                                                                      |
|---|---|--|--------------------------------------------------------------------------------------|
|   |   |  |                                                                                      |
| ' | 1 |  |   |
| ' | 2 |  |                                                                                      |
| ' | 3 |  |   |
| ' | 4 |  |                                                                                      |
| ' | 5 |  |  |
| ' | 6 |  |                                                                                      |

## Terminal line-up diagram

| Part number   |                |               |                |                |             |
|---------------|----------------|---------------|----------------|----------------|-------------|
| Mounting rail |                |               | Strip label    | End angle rear | End plate   |
|               |                |               |                | WAGO.249-117   | PXC.3214699 |
| Terminal      |                |               |                |                |             |
| Part number   | Type number    | Cross-section | Terminal label | Jumper         | Cover       |
| WAGO.249-117  | 249-117        |               |                |                |             |
| PXC.3214699   | D-PTTBS 1,5/S  |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214673   | PTTBS 1,5/S-PE | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214673   | PTTBS 1,5/S-PE | 1.5           |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |

Plant part 1  
CO2 valve 1

=P15(i)\_P28(i)  
+SS01  
-130X1

|   |   |  |                                                                                       |
|---|---|--|---------------------------------------------------------------------------------------|
|   |   |  |                                                                                       |
|   |   |  |    |
|   |   |  |    |
| ' | 1 |  |    |
| ' | 2 |  |                                                                                       |
| ' | 3 |  |   |
| ' | 4 |  |                                                                                       |
| ' | 5 |  |  |
| ' | 6 |  |                                                                                       |
| ' | 7 |  |  |
| ' | 8 |  |                                                                                       |
|   |   |  |                                                                                       |

## Terminal line-up diagram

| Part number   |                |               |                |                |             |
|---------------|----------------|---------------|----------------|----------------|-------------|
| Mounting rail |                |               | Strip label    | End angle rear | End plate   |
|               |                |               |                | WAGO.249-117   | PXC.3214699 |
| Terminal      |                |               |                |                |             |
| Part number   | Type number    | Cross-section | Terminal label | Jumper         | Cover       |
| WAGO.249-117  | 249-117        |               |                |                |             |
| PXC.3214699   | D-PTTBS 1,5/S  |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214673   | PTTBS 1,5/S-PE | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214657   | PTTBS 1,5/S    | 1.5           |                |                |             |
|               |                |               |                |                |             |
| PXC.3214673   | PTTBS 1,5/S-PE | 1.5           |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |
|               |                |               |                |                |             |

Plant part 1  
valve forward

=P15(i)\_P28(i)  
+SS01  
-130X5

|   |   |  |                                                                                       |
|---|---|--|---------------------------------------------------------------------------------------|
|   |   |  |                                                                                       |
|   |   |  |    |
|   |   |  |    |
| 1 | 1 |  |    |
| 2 | 2 |  |                                                                                       |
| 3 | 3 |  |   |
| 4 | 4 |  |                                                                                       |
| 5 | 5 |  |  |
| 6 | 6 |  |                                                                                       |
| 7 | 7 |  |  |
| 8 | 8 |  |                                                                                       |

Terminal line-up diagram

| Part number   |                 |               |                |                |                         |
|---------------|-----------------|---------------|----------------|----------------|-------------------------|
| Mounting rail |                 |               | Strip label    | End angle rear | End plate               |
|               |                 |               |                | WAGO.249-117   | PXC.3211003;PXC.3208979 |
| Terminal      |                 |               |                |                |                         |
| Part number   | Type number     | Cross-section | Terminal label | Jumper         | Cover                   |
| WAGO.249-117  | 249-117         |               |                |                |                         |
| PXC.3211003   | D-PT 2,5-MT     |               |                |                |                         |
| PXC.3208979   | D-PT 4-QUATTRO  |               |                |                |                         |
| PXC.3210156   | PT 2,5-MT       | 4             |                |                |                         |
| PXC.3211809   | PT 4-QUATTRO-PE | 6             |                |                |                         |
| PXC.3211809   | PT 4-QUATTRO-PE | 6             |                |                |                         |
|               |                 |               |                |                |                         |
|               |                 |               |                |                |                         |
|               |                 |               |                |                |                         |
|               |                 |               |                |                |                         |
|               |                 |               |                |                |                         |
|               |                 |               |                |                |                         |
|               |                 |               |                |                |                         |
|               |                 |               |                |                |                         |
|               |                 |               |                |                |                         |

Power supply unit  
Disconnect terminal

=P15(i)\_P28(i)  
+SS01  
-40XT5

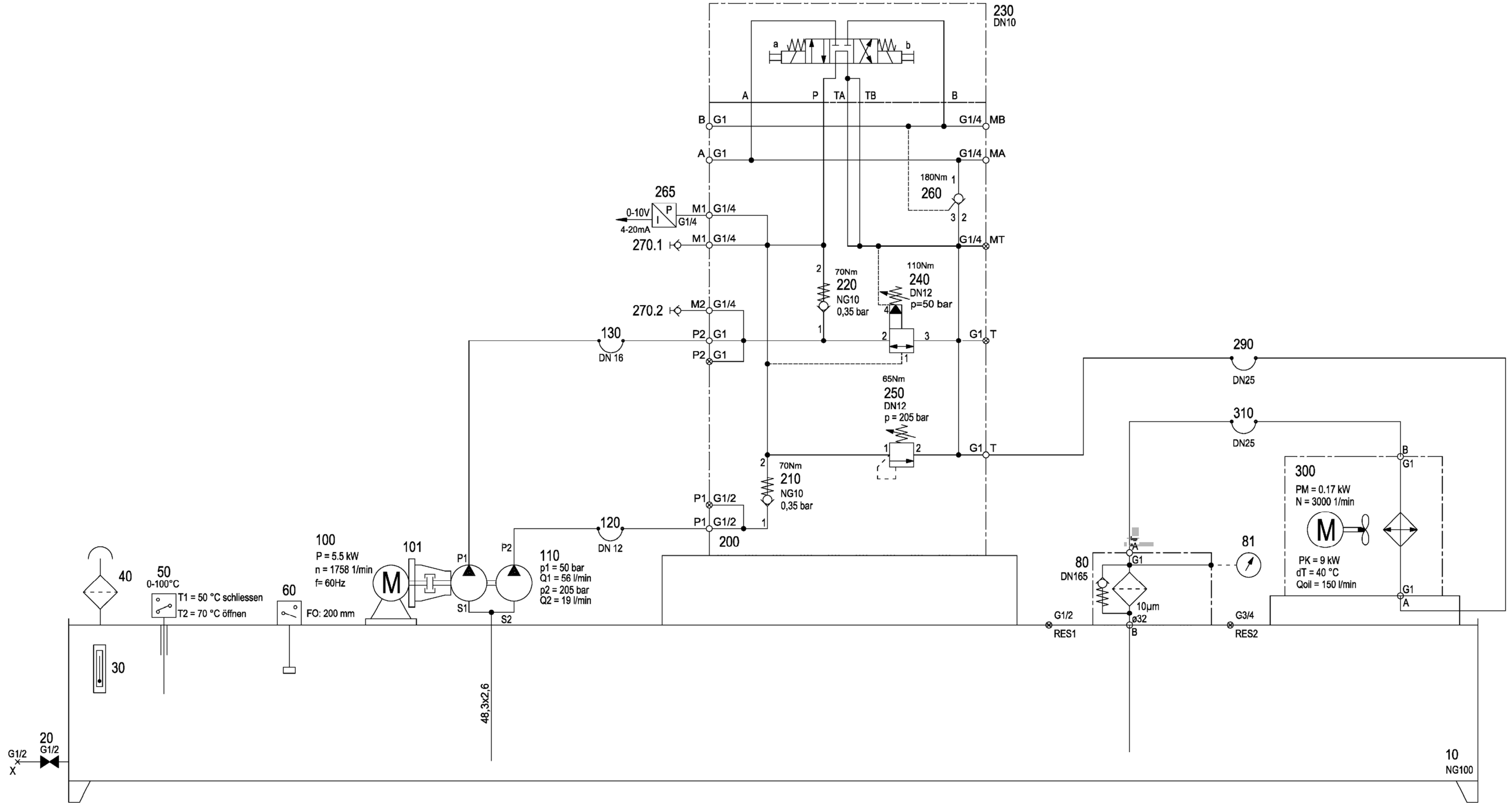
|   |   |  |                                                                                       |
|---|---|--|---------------------------------------------------------------------------------------|
|   |   |  |    |
|   |   |  |    |
|   |   |  |    |
|   | 1 |  |    |
| ' | 2 |  |   |
| ' | 3 |  |  |

## HYDRAULIC

vertraulich/confidential

Schutzvermerk ISO 16016 beachten/Observing of protection notice ISO 16016

Aggregatsgrenze



Umgebungstemperatur : 0-40°C  
Öleinheit : 19/17/14 ISO 4406  
Öltyp : Mineralöl  
Verschraubungssystem: DIN EN ISO 8434-1, Schneidring, verzinkt

|                                |                      |                                                 |                                     |                                                       |            |           |                                                                                                                   |                          |  |
|--------------------------------|----------------------|-------------------------------------------------|-------------------------------------|-------------------------------------------------------|------------|-----------|-------------------------------------------------------------------------------------------------------------------|--------------------------|--|
| H                              | 02.12.2025           | BAUZZ                                           | 1118660                             |                                                       |            |           |                                                                                                                   |                          |  |
|                                | 02.12.2025           | HUSERP                                          |                                     |                                                       |            |           |                                                                                                                   |                          |  |
| G                              | 20.11.2025           | EROLM                                           | 1117902                             |                                                       |            |           |                                                                                                                   |                          |  |
|                                | 20.11.2025           | HUSERP                                          |                                     |                                                       |            |           |                                                                                                                   |                          |  |
| F                              | 14.11.2025           | BAUZZ                                           | 1117314                             |                                                       |            |           |                                                                                                                   |                          |  |
|                                | 14.11.2025           | HUSERP                                          |                                     |                                                       |            |           |                                                                                                                   |                          |  |
| E                              | 19.11.2024           | EROLM                                           | 1092888                             | Auftr.-/Entw.-Projekt-Nr.<br>Ord.-/Devel.-/Project-No |            |           |                                                                                                                   |                          |  |
|                                | 19.11.2024           | HUSERP                                          |                                     |                                                       |            |           |                                                                                                                   |                          |  |
| Anz./<br>No<br>Index/<br>Index | gepr. am<br>chkd. on | gepr. von<br>checked<br>geänd. von<br>modif. by | Ä. M. Nr.<br>Notice of<br>change No | Vers./Rev. H                                          | Datum/Date | Name/Name | <br>Zeichn.-Nr./<br>Draw.-No |                          |  |
|                                | gepr./chkd.          |                                                 |                                     | gez./drawn                                            | 19.03.2024 | BURRIW    |                                                                                                                   |                          |  |
|                                |                      |                                                 |                                     | gepr./chkd.                                           | 19.03.2024 | EROLM     |                                                                                                                   |                          |  |
| Blatt von/<br>Sheet of         |                      | Benennung/Description                           |                                     |                                                       |            |           |                                                                                                                   | alte Mat.Nr./old Mat.No: |  |
| 1/1                            |                      | P&ID HPU-M-100-1x5,5-HE-24003 *P28i UL*         |                                     |                                                       |            |           |                                                                                                                   | 4811481                  |  |
| Format/Size                    |                      |                                                 |                                     |                                                       |            |           |                                                                                                                   | Dok.Nr./Doc.No:          |  |
| A2                             |                      |                                                 |                                     |                                                       |            |           |                                                                                                                   |                          |  |
| Draft/Sight                    |                      |                                                 |                                     |                                                       |            |           |                                                                                                                   | Ers. für/Exchange for:   |  |
| 2022                           |                      |                                                 |                                     |                                                       |            |           |                                                                                                                   | Ers. durch/Replaced by:  |  |