

DIAGRAM
ELECTRIC
HYDRAULIC

**ASCO DRY ICE PELLETIZER
P28 EVO**

from SN 26-132-001
ascoco2.com



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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

	 WARNING Risk of injury from electric power! Changes on the electrical installation on your own are prohibited. Changes on the electrical installation, on the program or on its parameters can cause serious damages to the machine and its environment. Any change on the control or at the program which is not performed by an ASCO-technician leads to a loss of warranty.
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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:

4G4mm² 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
<u>Funktionskennzeichen</u>	
=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
<u>Ortskennzeichen</u>	
+SS01	Control cabinet
+DR	Door
+EXT	External
+CVB	conveyor belt
+CST	Customer
+TEIL1	

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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), If second wire grounded: red/white Control voltage DC +: dark blue Control voltage DC GND 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				
ASCO All about CO₂ ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com Page description: Wire colors according to standard EN Project-No.: Scheme-No.: Project designation: Scheme-No. Customer: Project-No. Customer: = P15(i)_P28(i) + SS01 I sh130 Pg4									

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 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

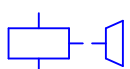
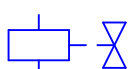
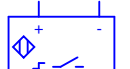
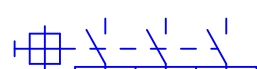
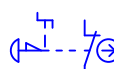
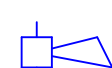
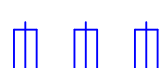
It is not permitted to work on electrically live parts and equipment!

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

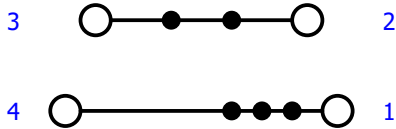
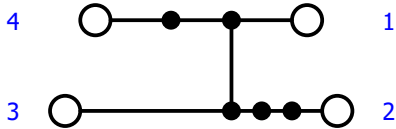
Device tag

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

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



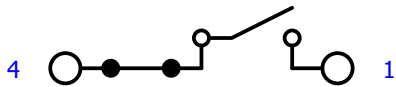
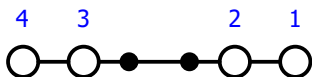
Terminal numbering



Terminal

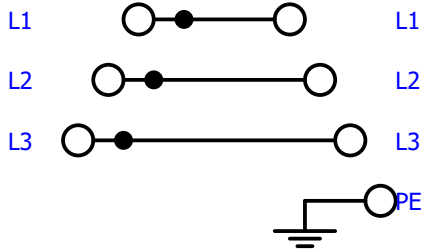
2

1



Terminal

1



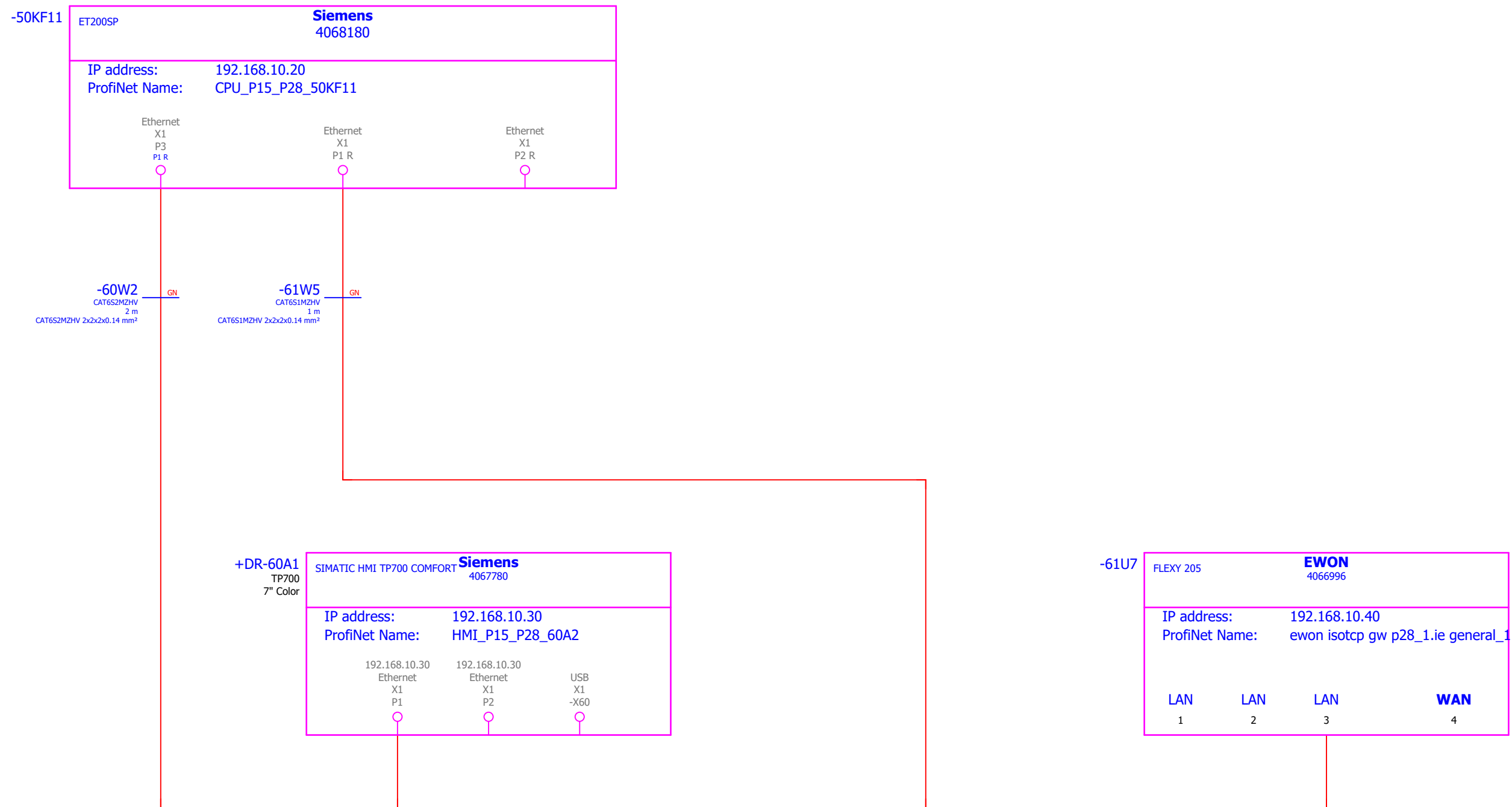
Terminal

1

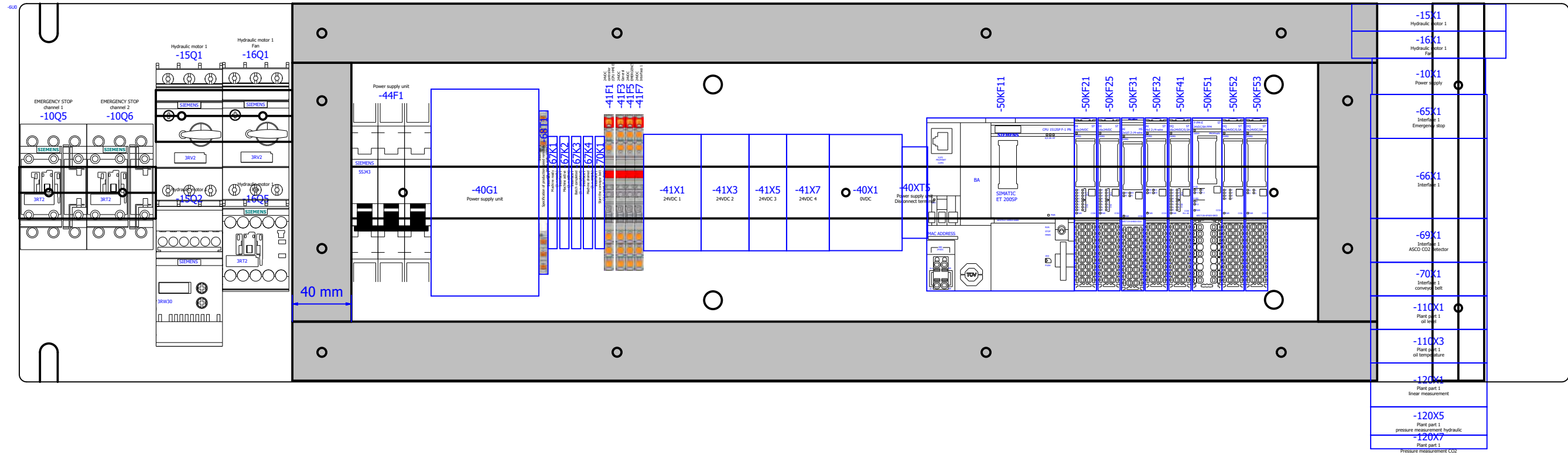
2

3

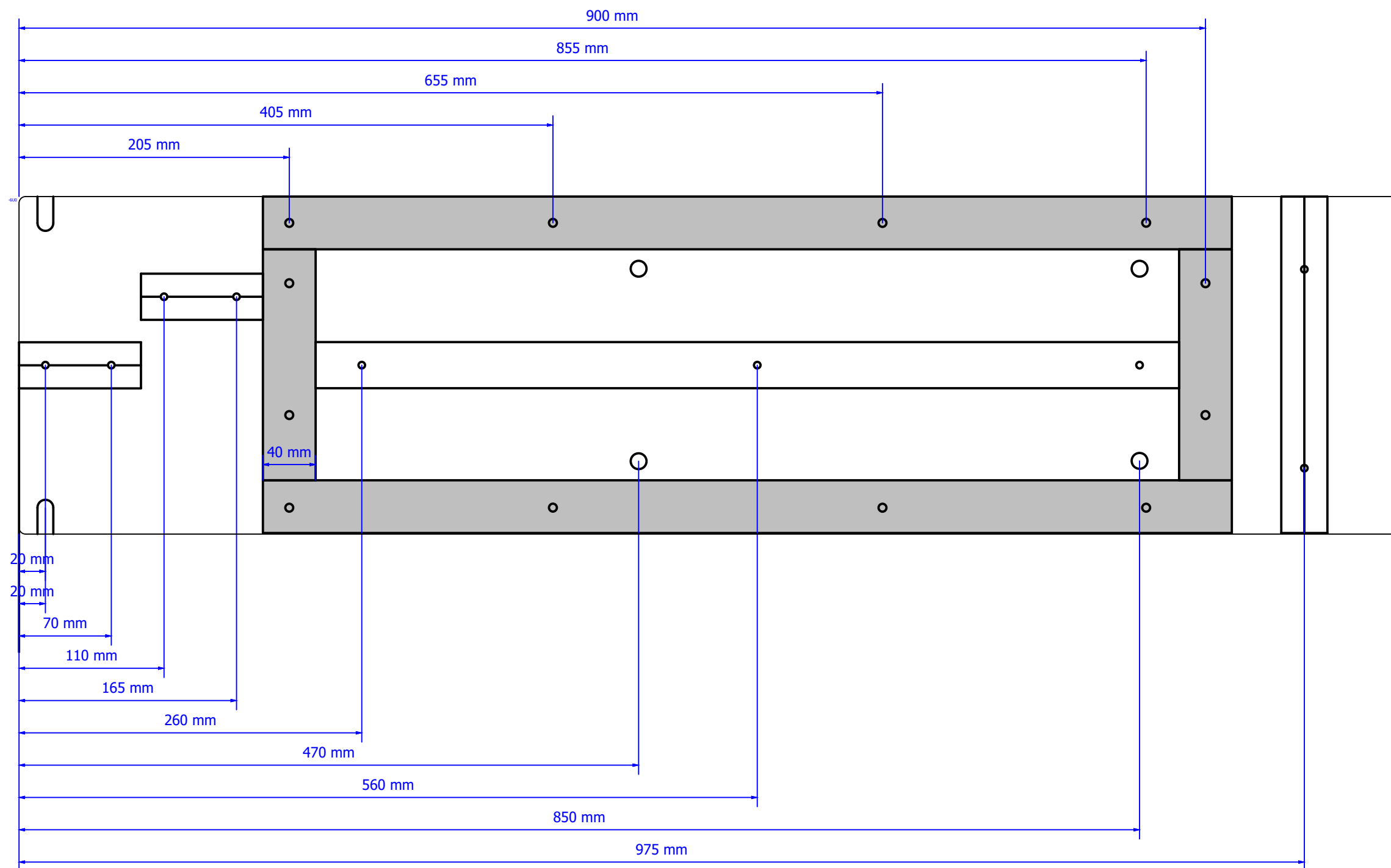
4



-60U7
EWO.FLEXY205
FLEXY 205
46

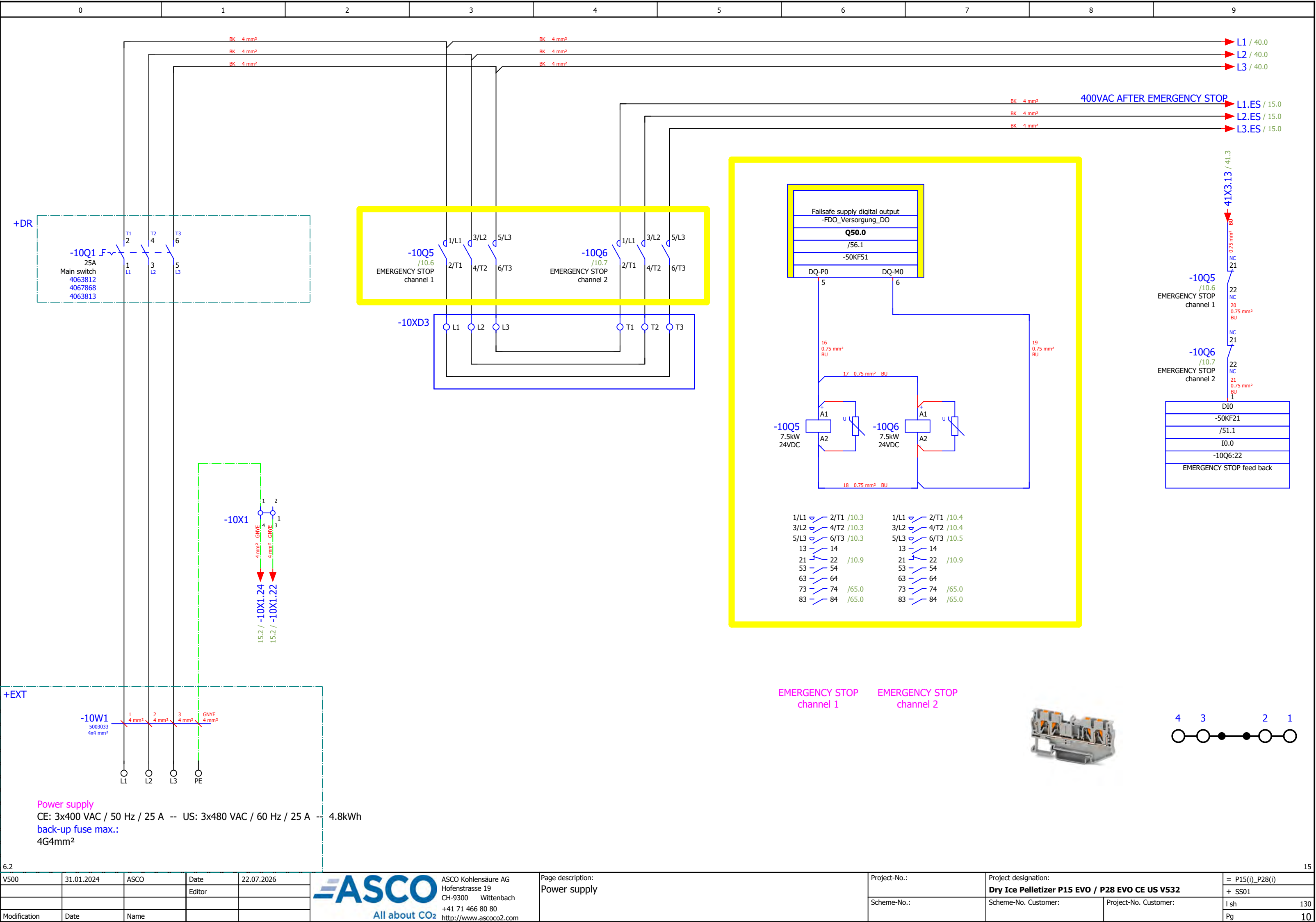


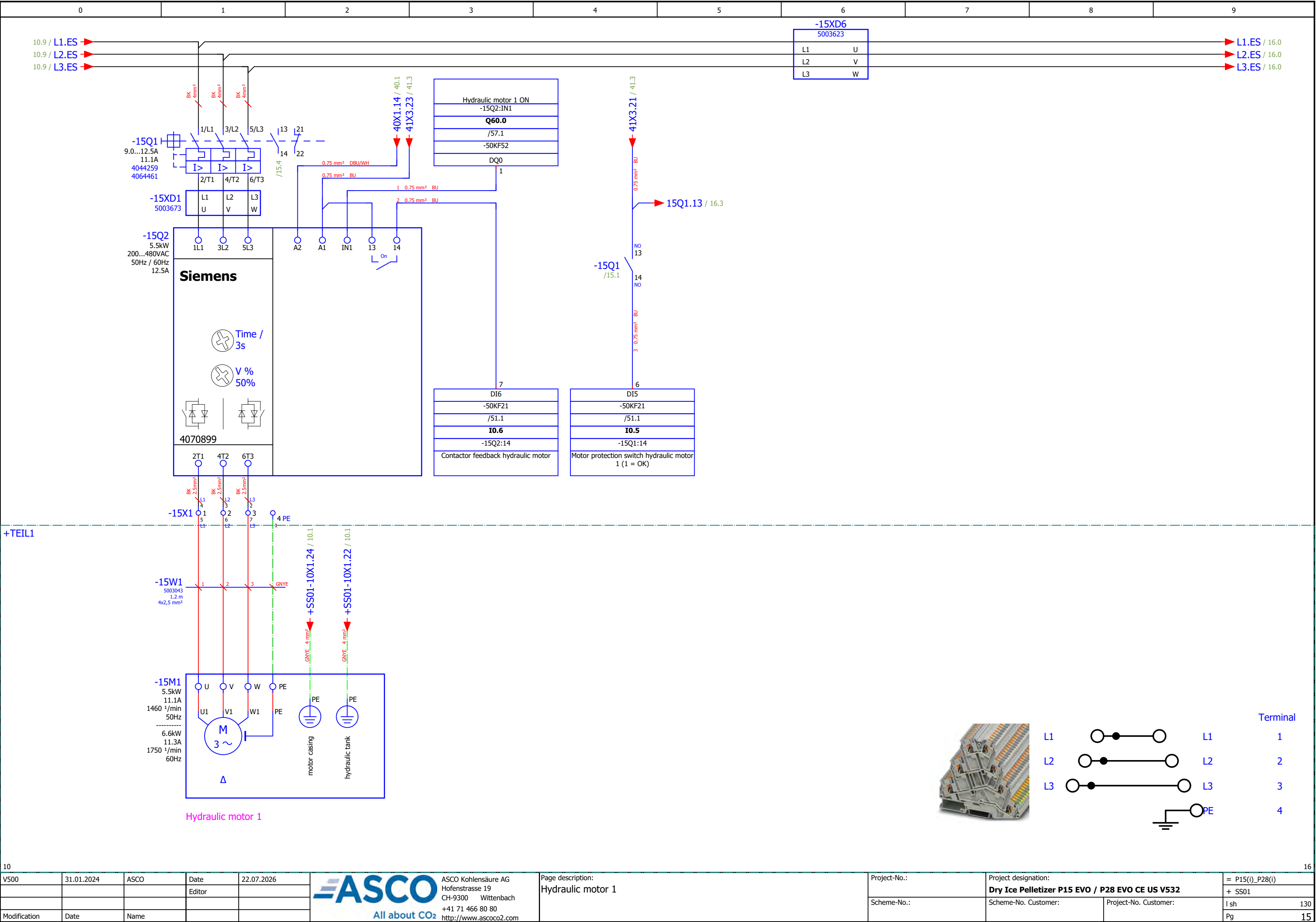
BxH: 1050mmx257mm
(Standard P15/P28 Montageplatte)

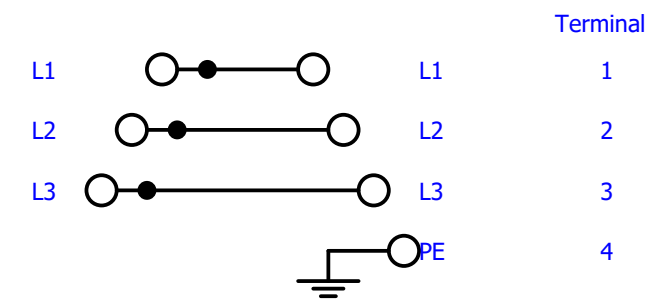
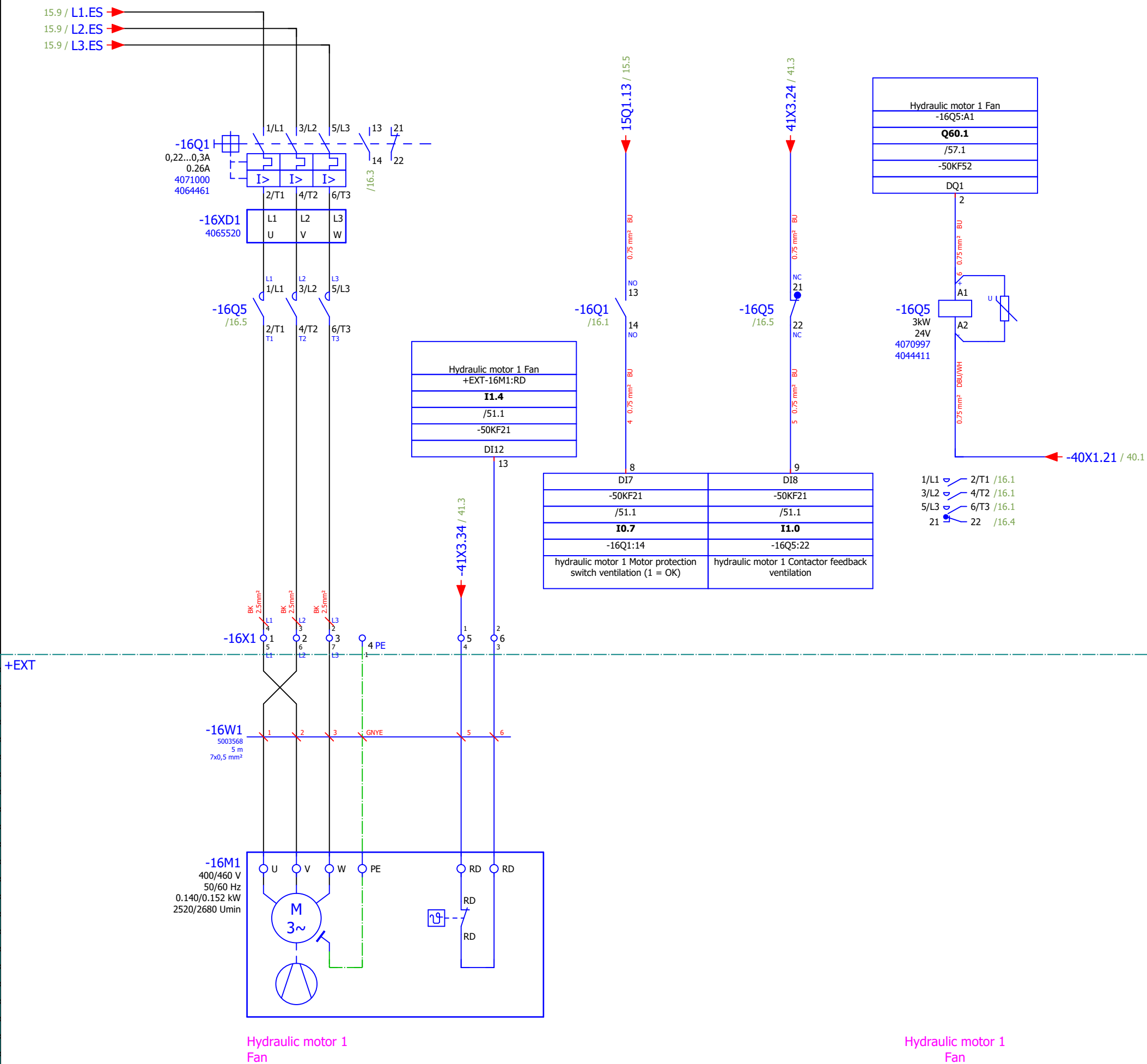


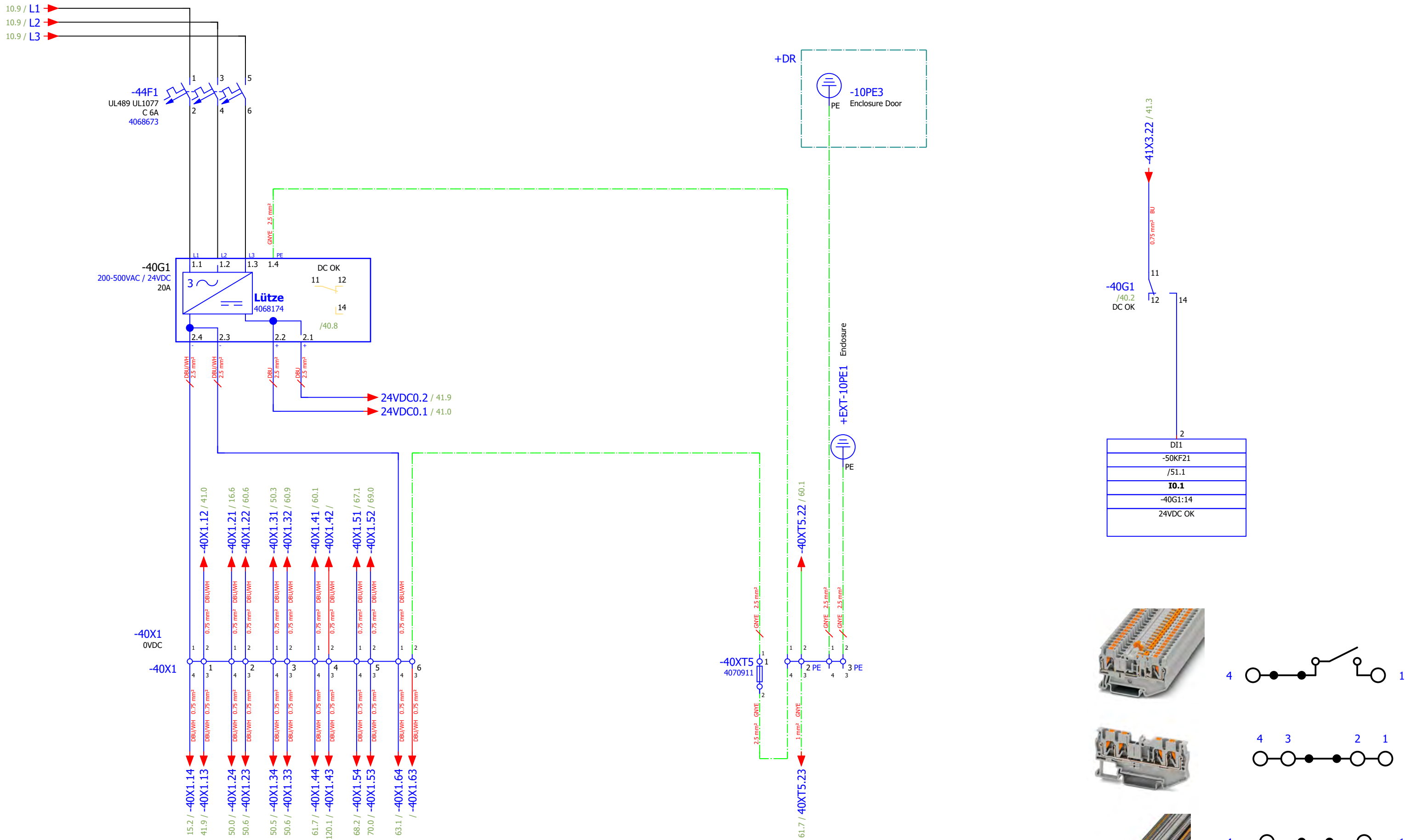
BxH: 1050mmx257mm
(Standard P15/P28 Montageplatte)

Platte : $\varnothing 12$ (6x)
Kanal : $\varnothing 6$ (12x)
Rail : M5 (9x)

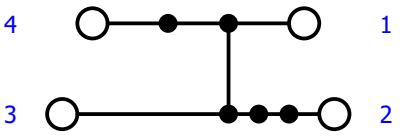
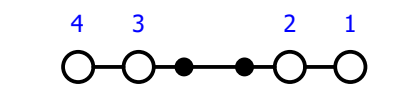
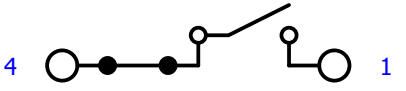


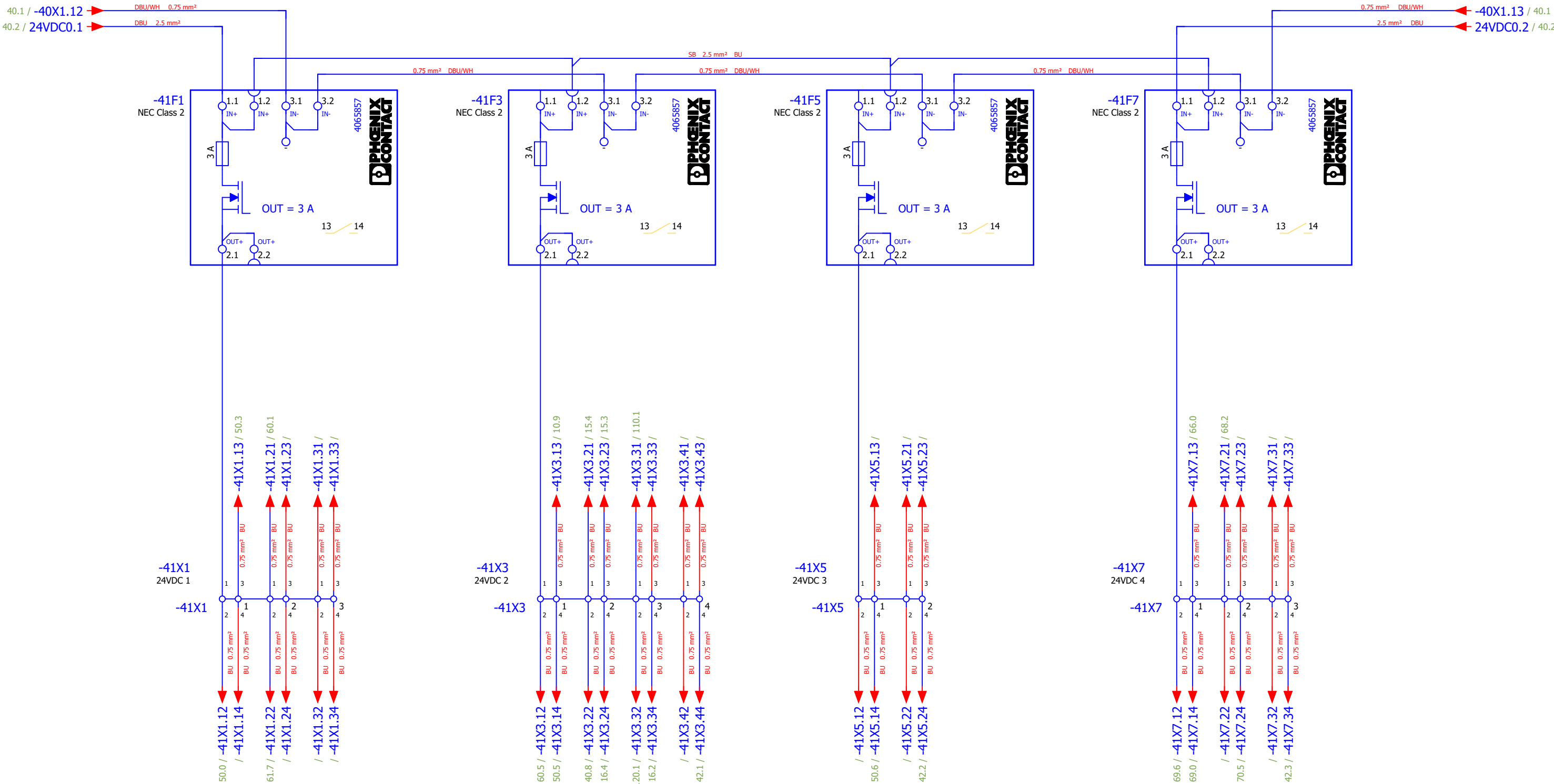






Power supply unit



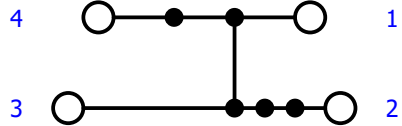


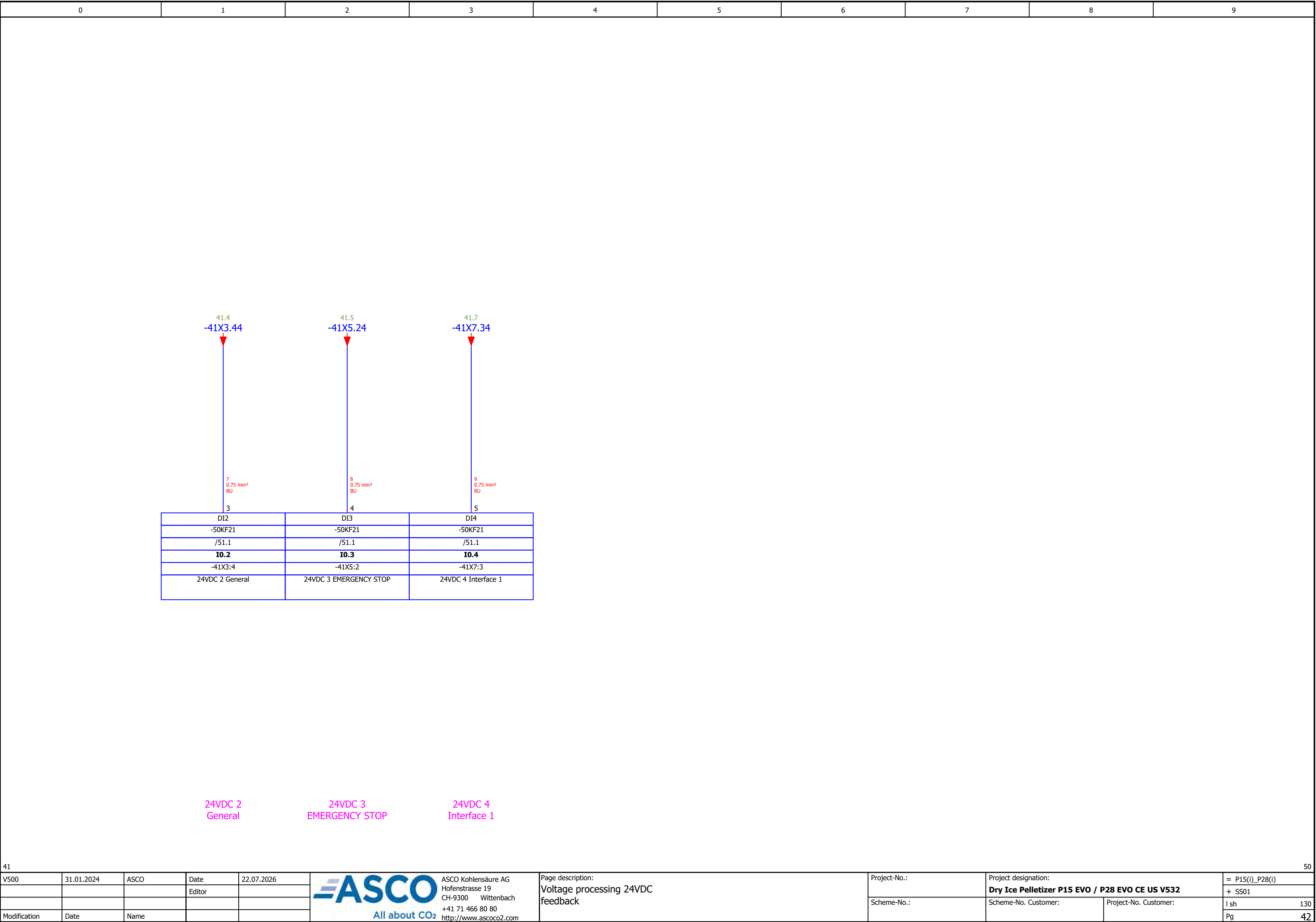
24VDC
controller
(CPU HMI EWON)

24VDC
General

24VDC
EMERGENCY STOP

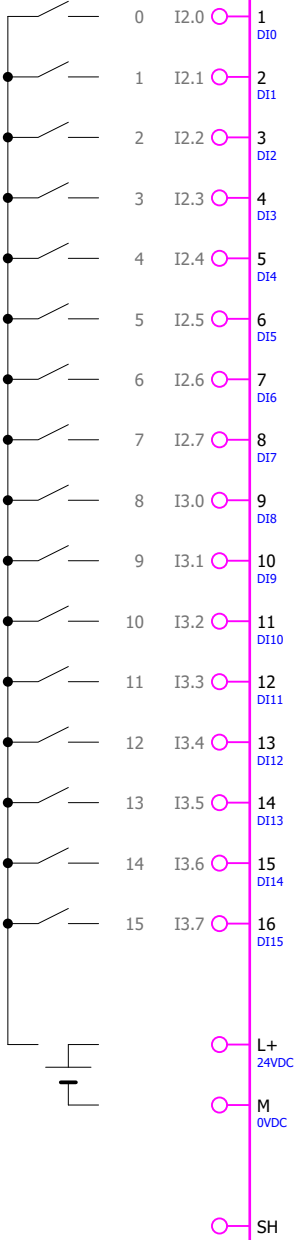
24VDC
Interface 1





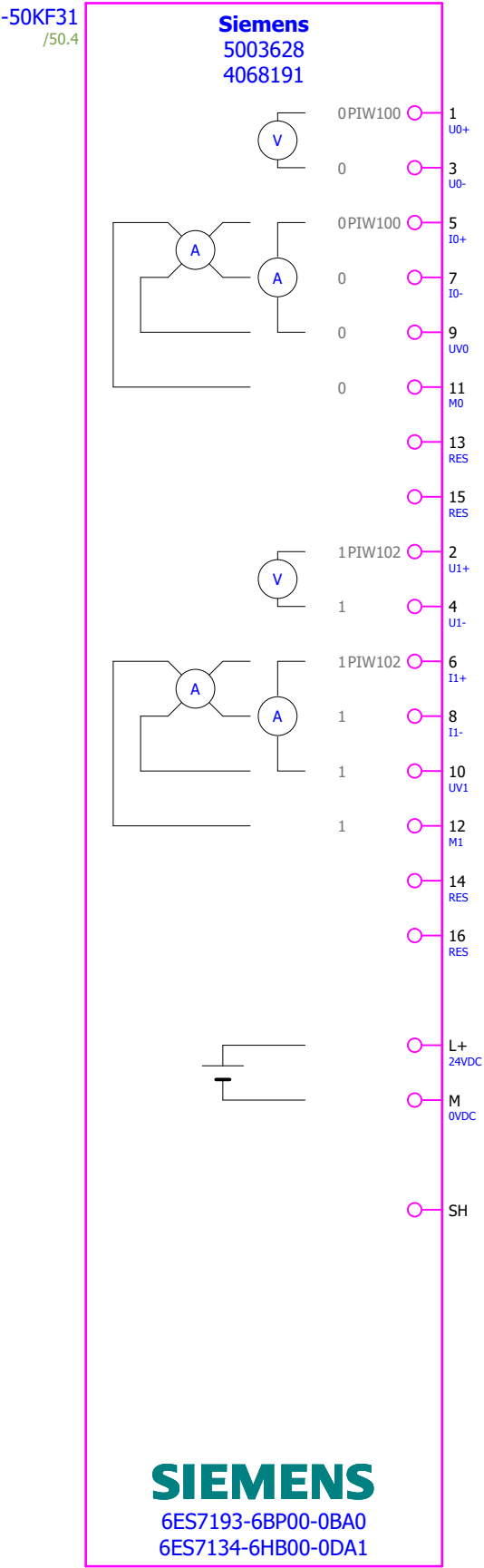
-50KF25
/50.3

Siemens
4070341
4068191



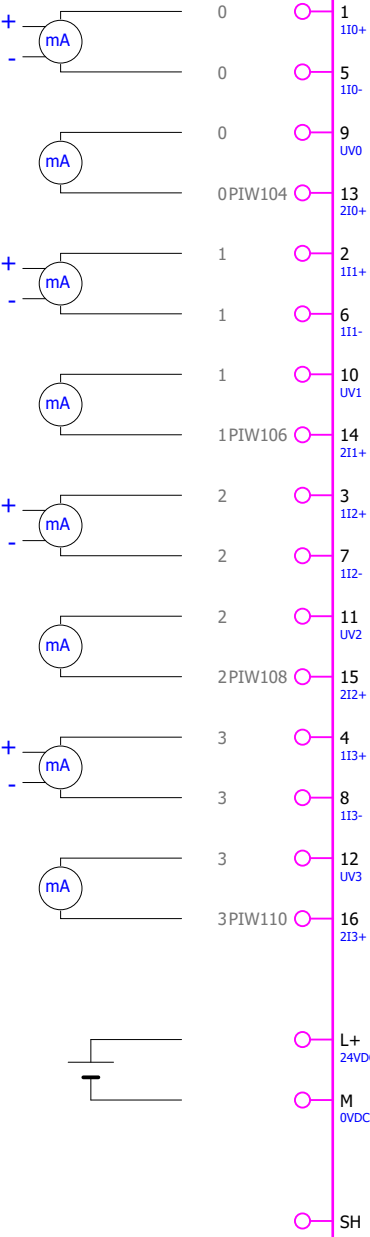
SIEMENS
6ES7193-6BP00-0BA0
6ES7131-6BH01-0BA0

/66.1	=R85EVO+EXT-83K1:14	Interface 1 External Start / Stop (1 = start) (0 = Stop after end of cycle)
/66.2	=R85EVO+EXT-83K2:14	Interface 1 Drain Machine (1 = drain)
/66.3	=R85EVO+EXT-83K3:14	Interface 1 next batch (1 = next)
/66.4	=R85EVO+EXT-83K4:14	Interface 1 additional start condition (1 = approval)
/66.5	-66X1:7	Spare
/66.6	-66X1:8	Spare
/66.7	-66X1:9	Spare
/66.8	-66X1:10	Spare
/69.6	+EXT-69A1:33	Interface 1 CO2 ALARM 3 configurable
/69.7	+EXT-69A1:23	Interface 1 CO2 ALARM 2 configurable
/69.8	+EXT-69A1:13	Interface 1 CO2 ALARM 1 8h over 0.5%
/70.5	+CVB-20K1:31	Interface 1 conveyor belt (1 = active, 0 = stopped)



-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%)

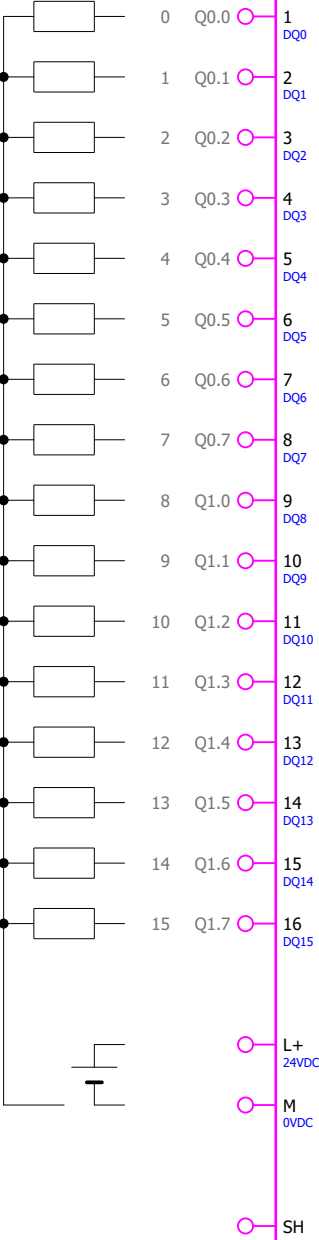
Interface 1 Specification of production speed remotely
(4...20mA = 0...100%)

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

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

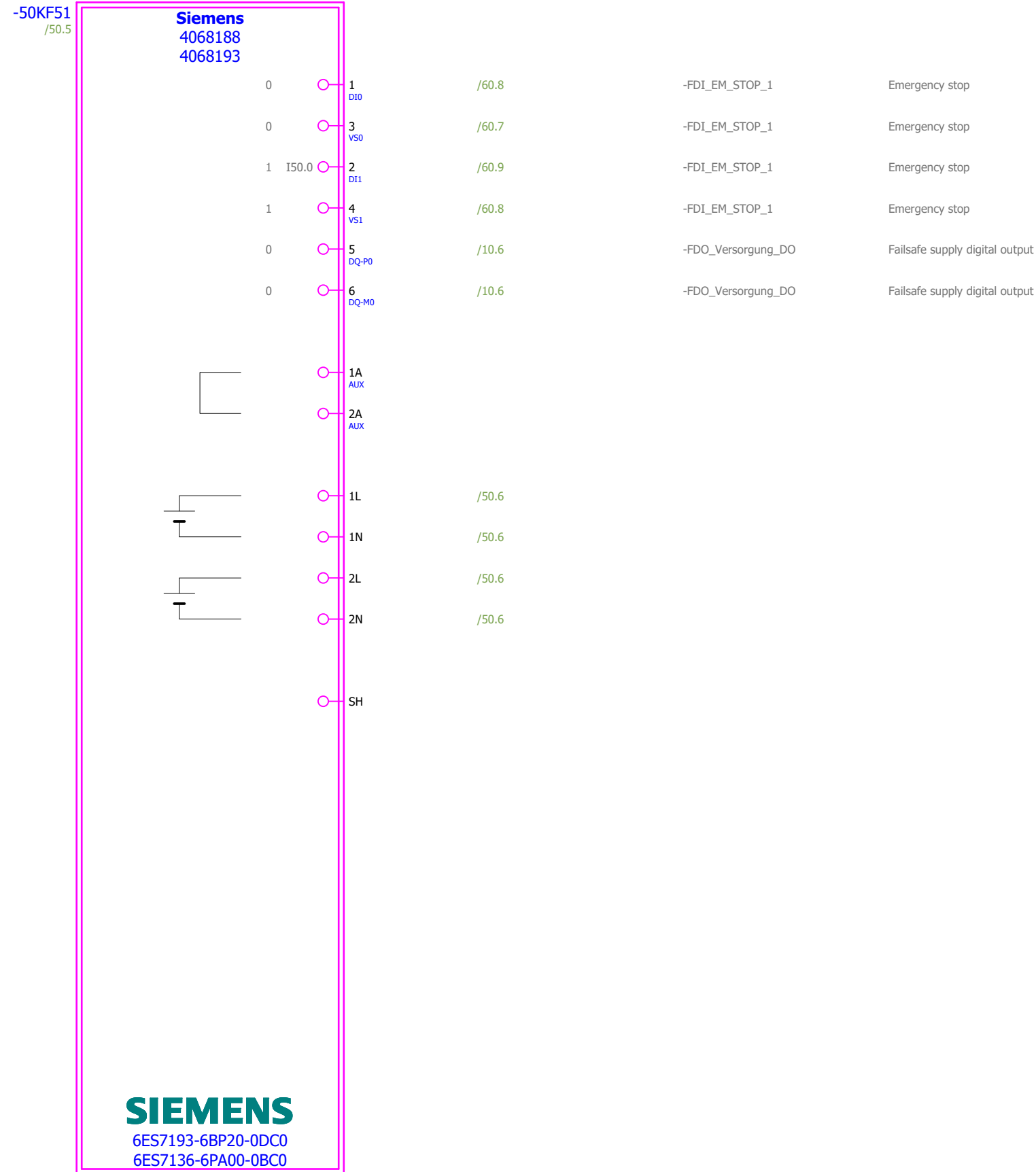
-50KF41
/50.5

Siemens
4070342
4068190

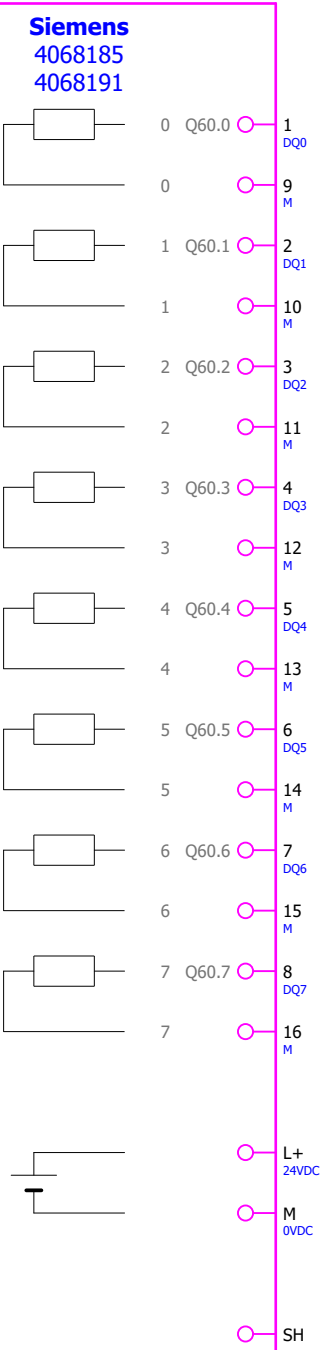


SIEMENS
6ES7193-6BP00-0DA0
6ES7132-6BH01-0BA0

/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



-50KF52
/50.6



/15.3

-15Q2:IN1

Hydraulic motor 1 ON

/16.5

-16Q5:A1

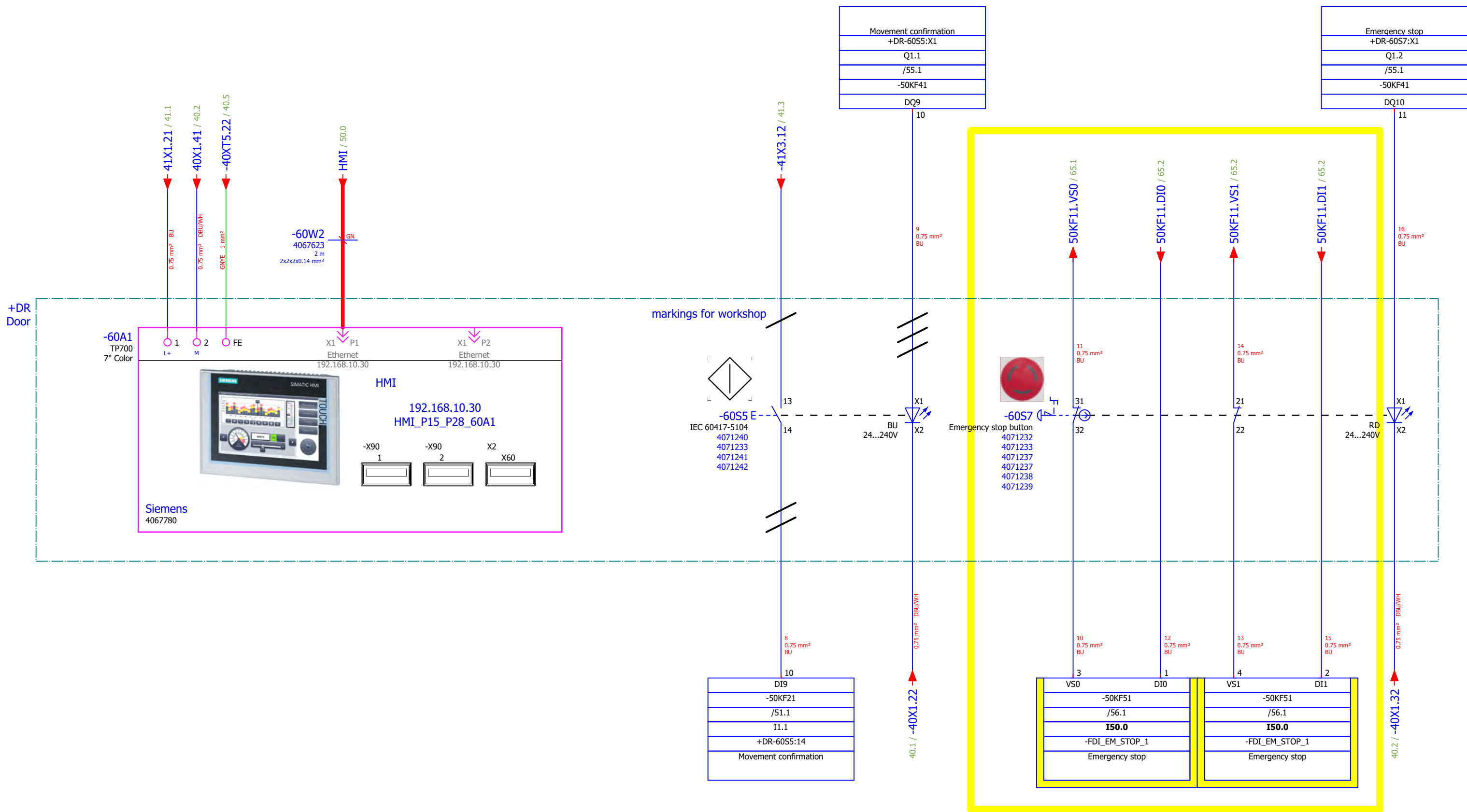
Hydraulic motor 1 Fan

/50.6

/50.7

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

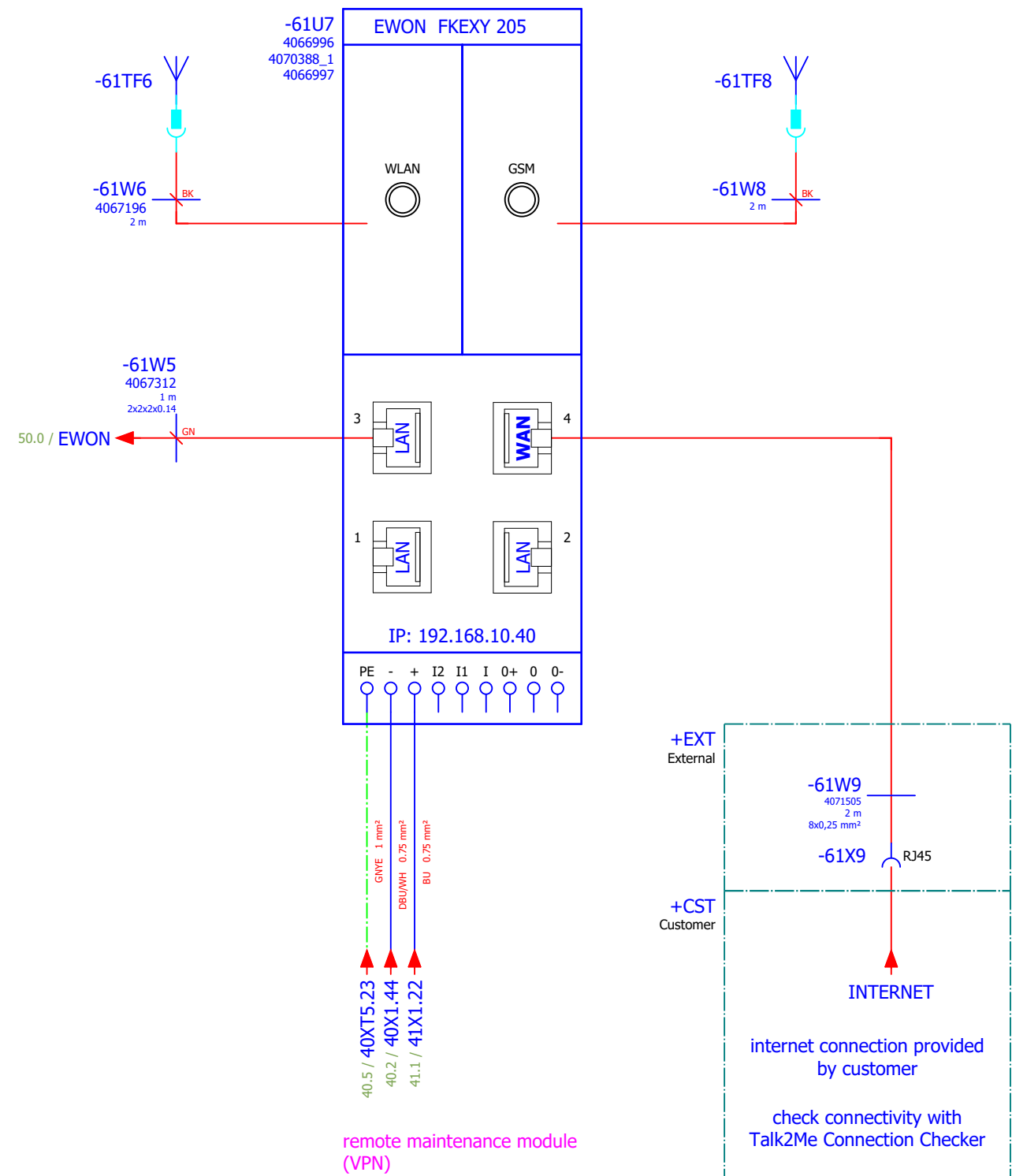




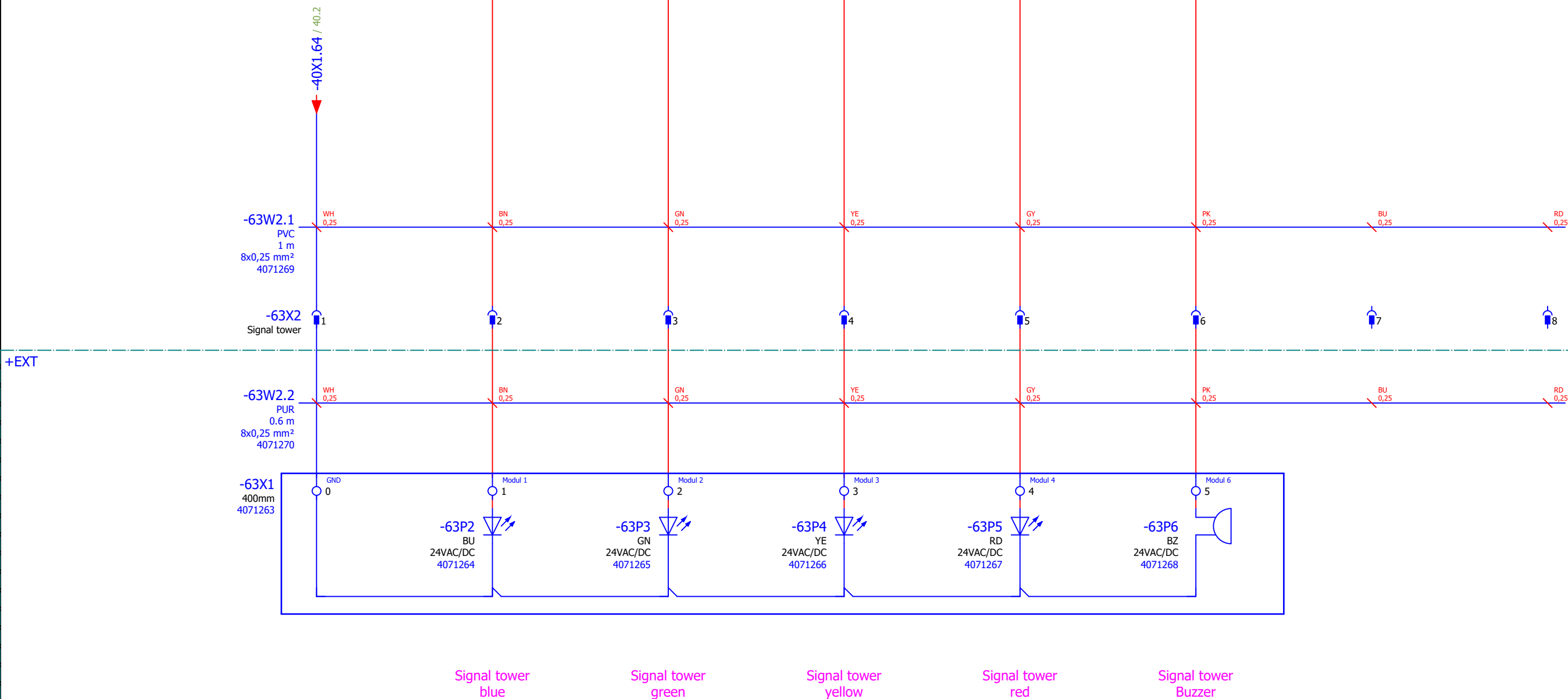
human machine interface (HMI)

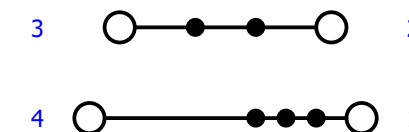
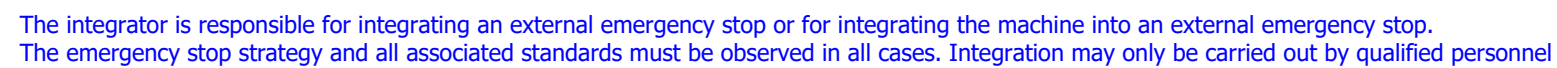
Movement confirmation

Emergency stop

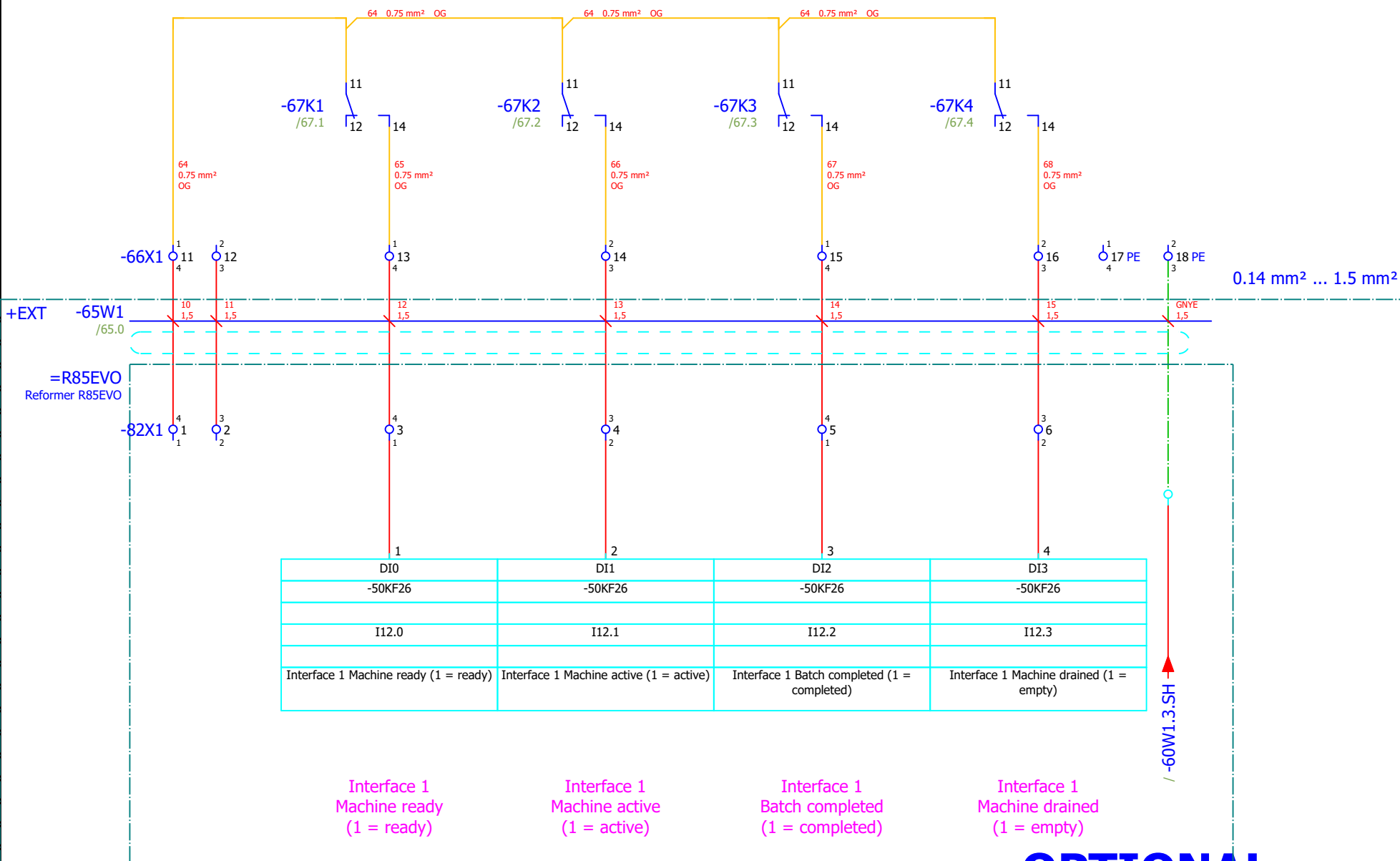
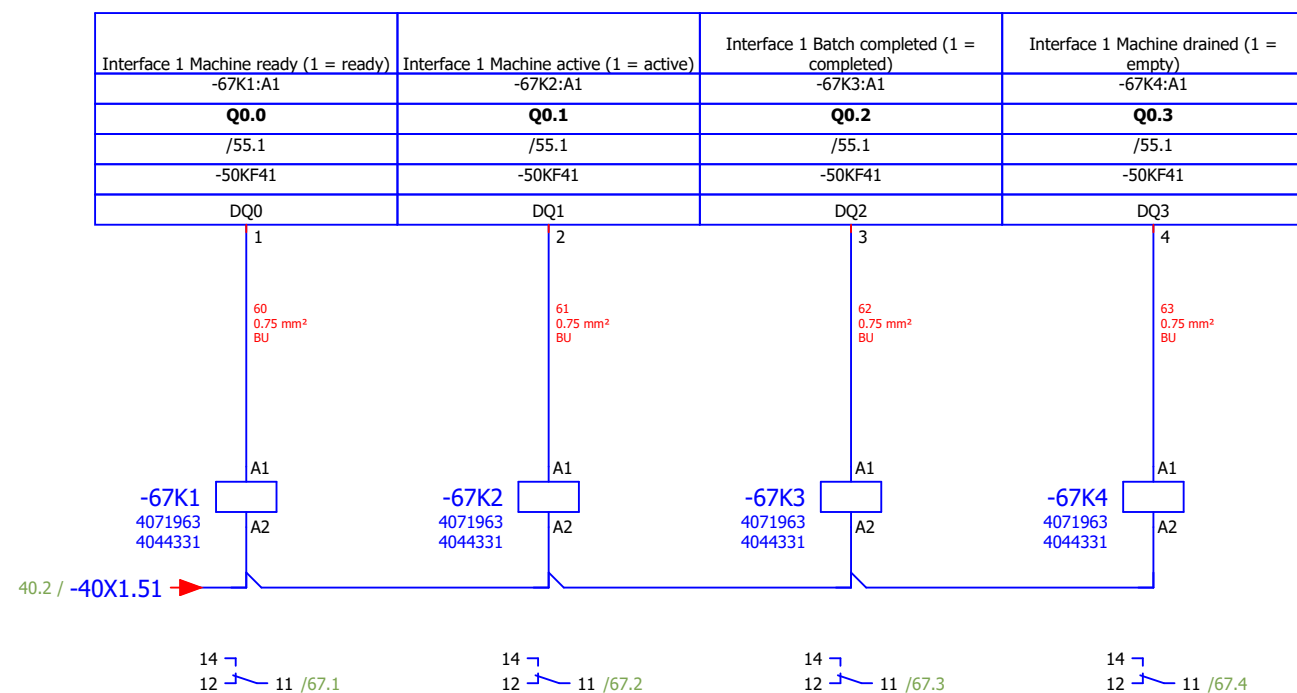


Signal tower blue +EXT-63X1:1	Signal tower green +EXT-63X1:2	Signal tower yellow +EXT-63X1:3	Signal tower red +EXT-63X1:4	Signal tower Buzzer +EXT-63X1:5
Q1.3	Q1.4	Q1.5	Q1.6	Q1.7
/55.1	/55.1	/55.1	/55.1	/55.1
-50KF41	-50KF41	-50KF41	-50KF41	-50KF41
DQ11	DQ12	DQ13	DQ14	DQ15

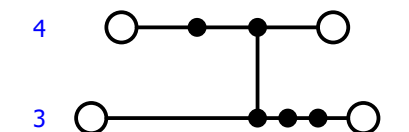


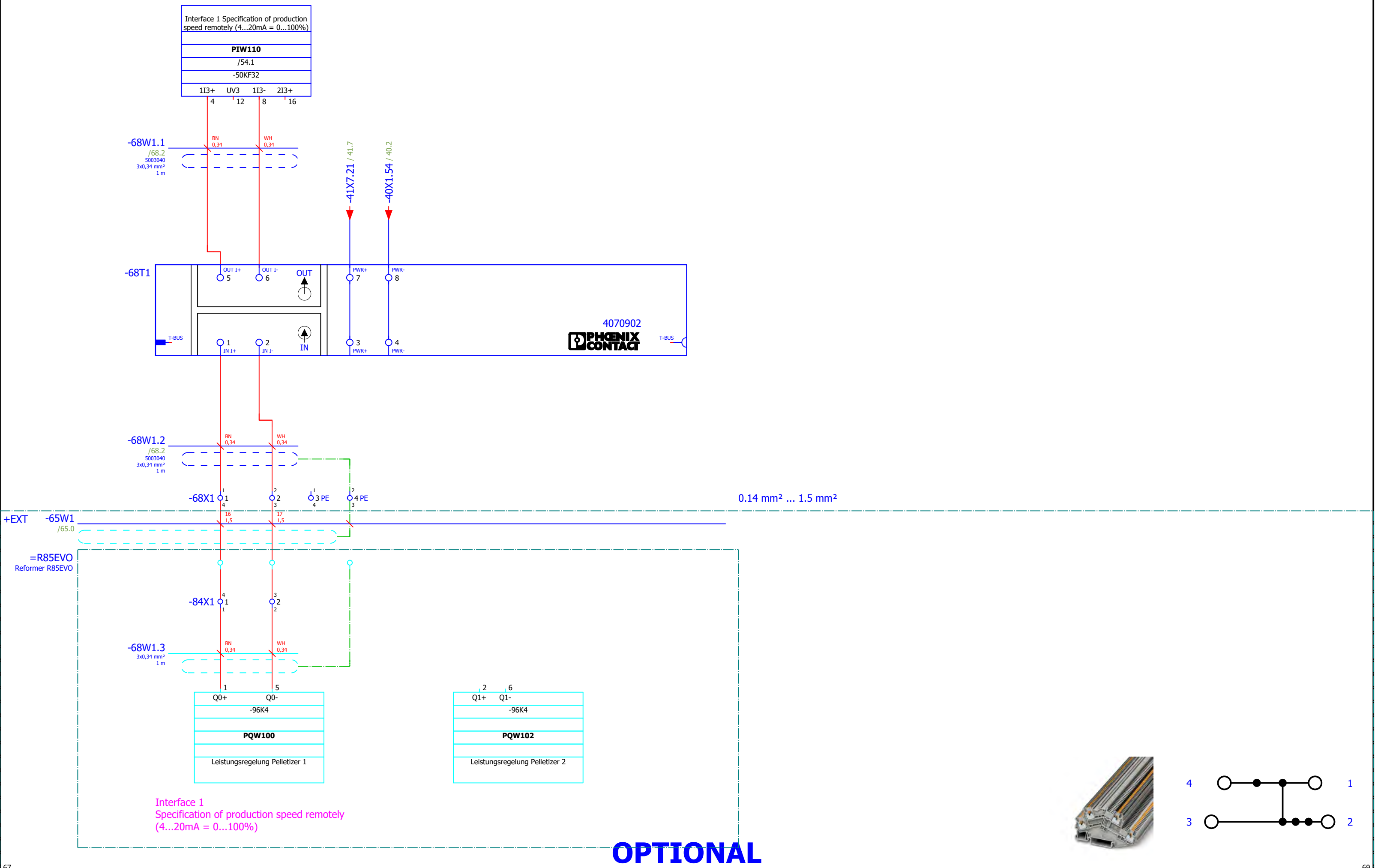


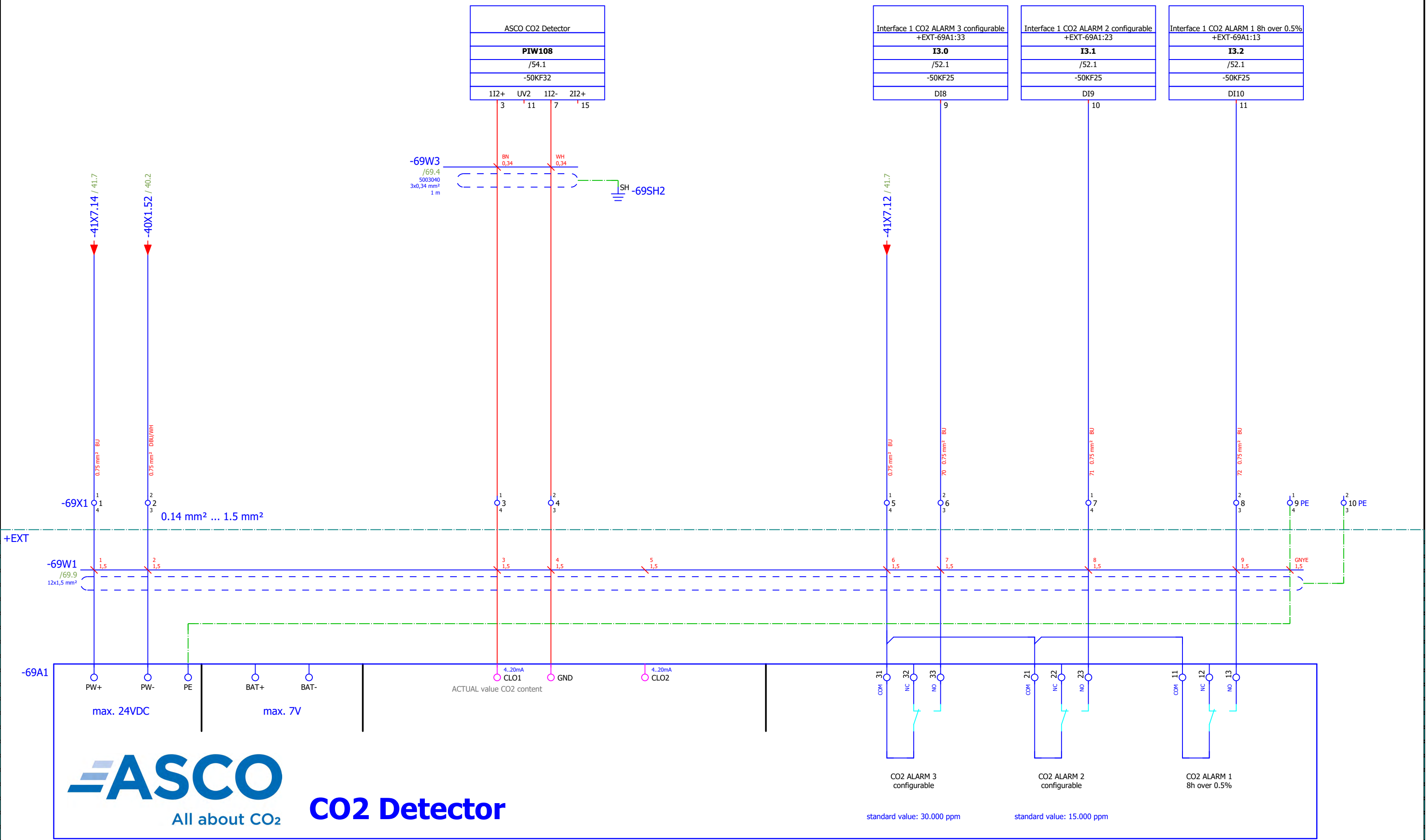
OPTIONAL



OPTIONAL







OPTIONAL

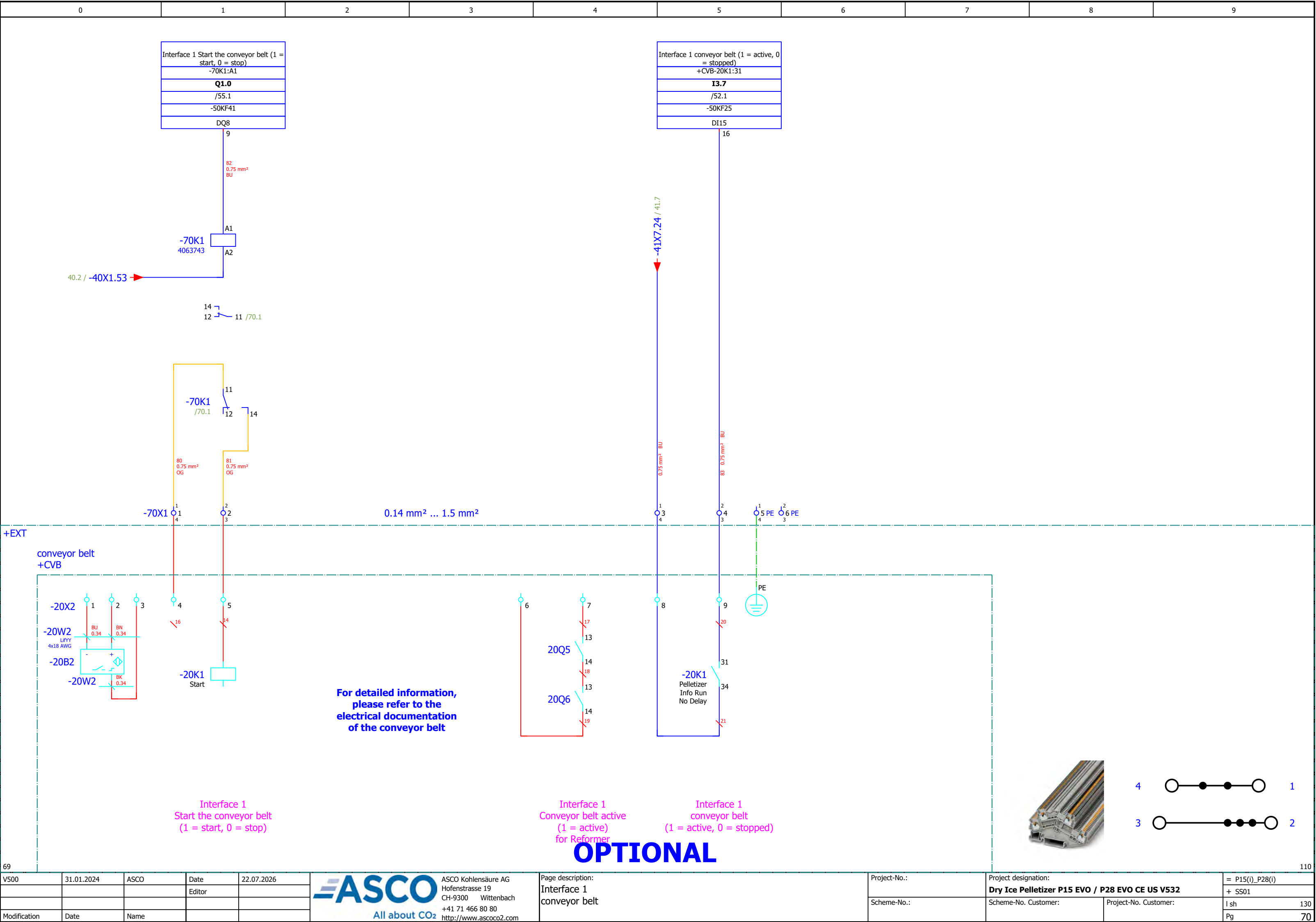
ASCO CO2 Detector

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

Machine stops
after end of cycle

Machine reports
whithout stop

Machine reports
whithout stop



V500	31.01.2024	ASCO	Date	22.07.2026
			Editor	
Modification	Date	Name		

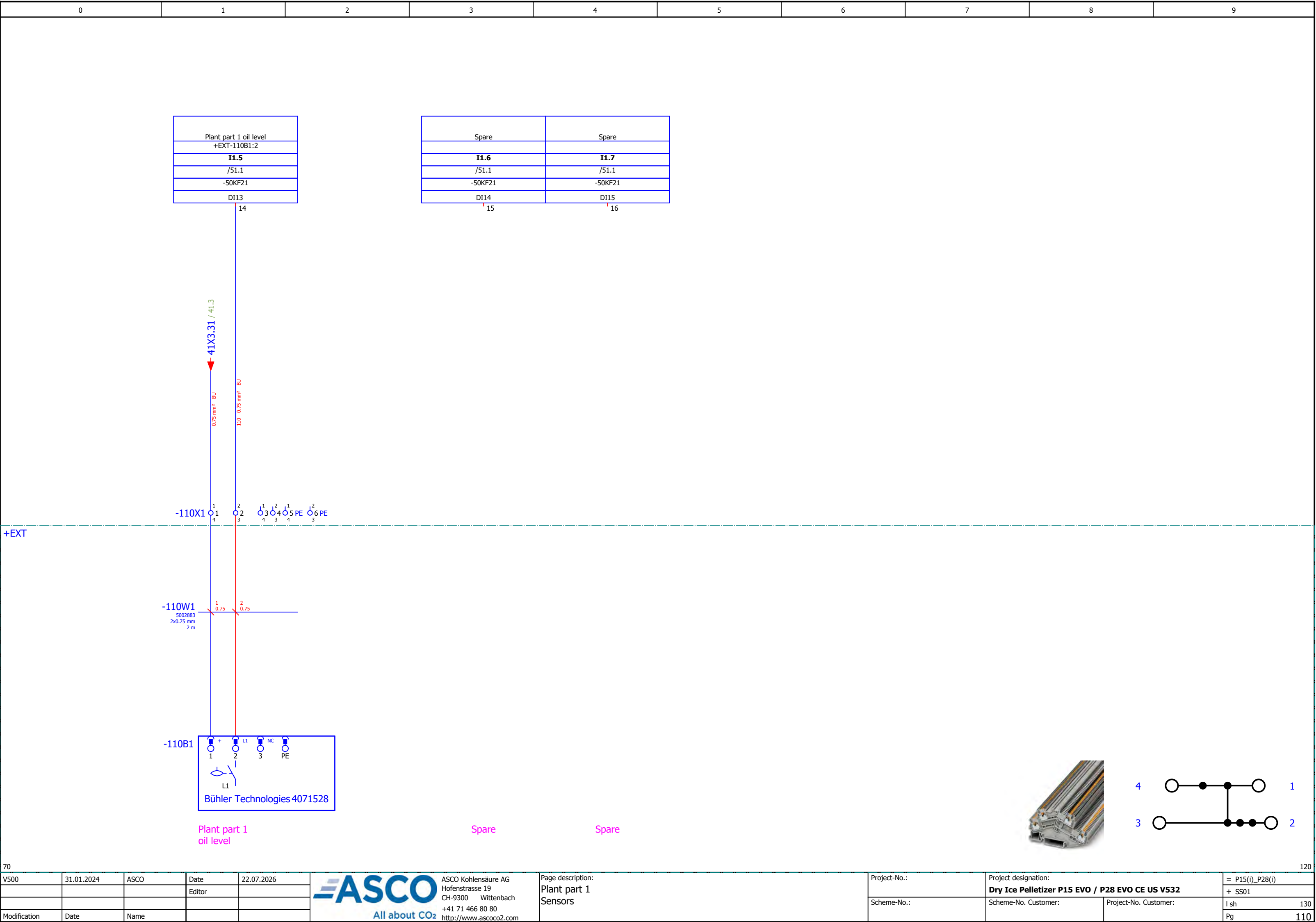


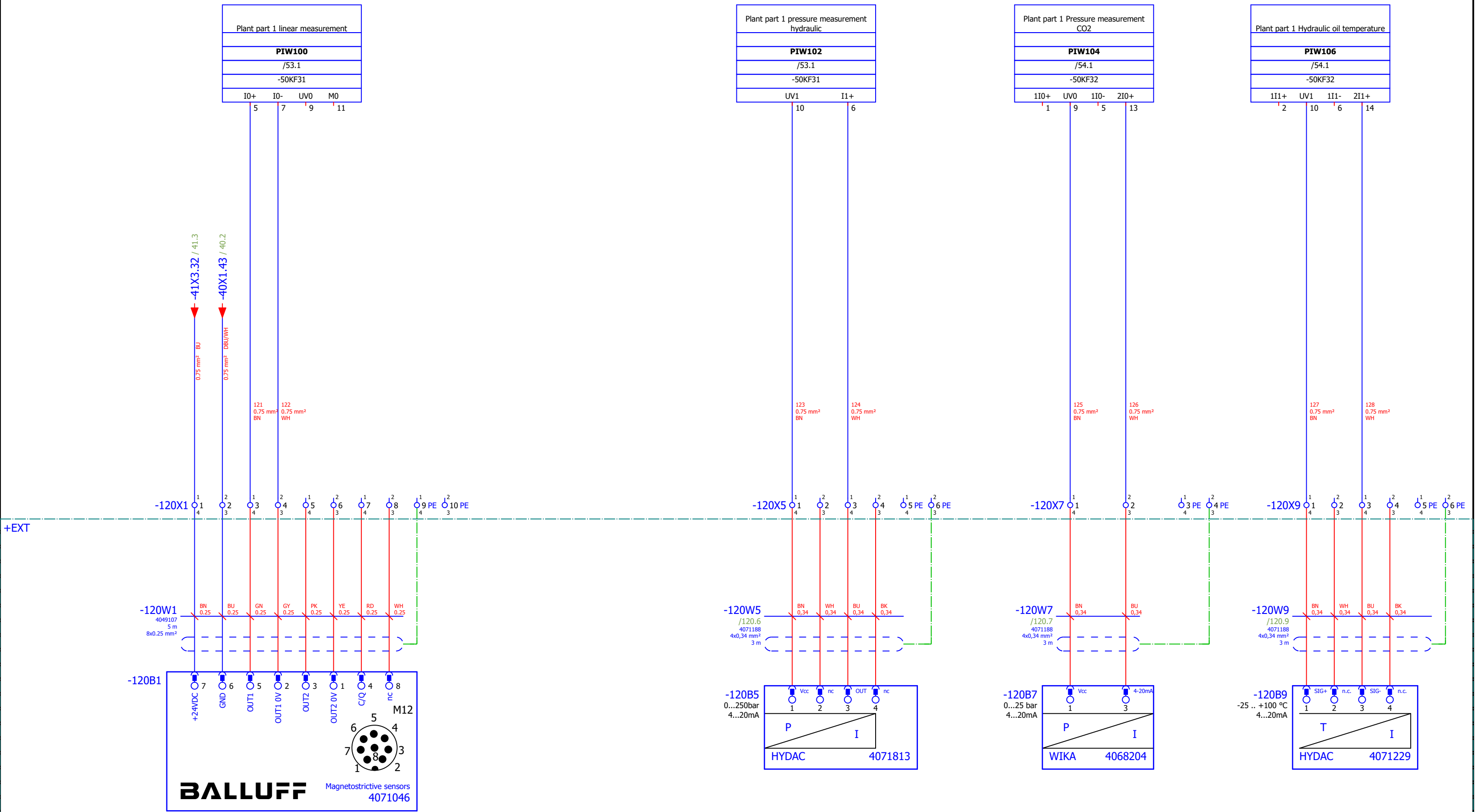
ASCO
All about CO₂

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

Page description: Interface 1 conveyor belt

Project-No.:	Project designation: Dry Ice Pelletizer P15 EVO / P28 EVO CE US V532	= P15(i)_P28(i) + SS01
Scheme-No.:	Scheme-No. Customer:	Project-No. Customer:
		I sh 130 Pg 70



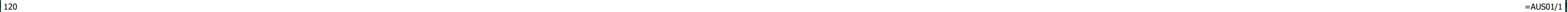


Plant part 1 linear measurement

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	

Summarized parts list

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Order number	Quantity	Designation	Type number	Manufacturer	Image
4068181	1	ET 200SP, BA 2XRJ45 SIMATIC DP, ET 200SP			
4068182	1	SIMATIC S7 Memory card 24 MB For S7-1x00 CPU Memory card			
4065857	4	Electronic device circuit breaker			
4068673	1	CIRCUIT BREAKER 10KA, 3POLE, C, 6A ACC. TO UL 489 - 480Y/277V			
4068174	1	Stromversorgung, 3-phasig 400-500VAC , 24VDC 20A , 480W			
4071963	4	Coupling relay, 1 changeover contact, 6A, 250VAC 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 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 SIMATIC ET 200SP Central processing unit			
4070341	2	SIMATIC ET 200SP DI 16x 24V DC ST, PU 1 Digital module input			
4068190	2	SIMATIC ET 200SP BU type A0 BU15-P16+A0+2D BaseUnit			
4068191	5	SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B BaseUnit			
5003628	1	SIMATIC ET 200SP AI 2xU/I 2-/4-wire HS Analog module input			
4070340	1	SIMATIC ET 200SP AI 4xI 2-/4-wire ST Analog module input			
4070342	1	SIMATIC ET 200SP DQ 16x24 VDC/0.5 A ST Digital module output			
4068188	1	SIMATIC ET 200SP F-PM-E 24 V DC/8 A PPM ST 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 BaseUnit			
4068185	1	SIMATIC ET 200SP DQ 8x24VDC/0.5A ST Digital module output			
4071897	1	SIMATIC ET 200SP DQ 4x24VDC/2A ST PU 1 Digital module output			
4070996	2	CONTACTOR,AC3:7,5KW 1NO+1NC DC24V SIRIUS Power contactor			
5003606	2	SURGE SUPPRESSOR, VARISTOR, AC 24...48V, DC 24...70V, FOR MOTOR CONTACTORS SZ S0,			
4065519	2	AUX. SWITCH BLOCK , 4NO COND. PATHS: 1NO, 1NO, 1NO, 1NO F. CONT. RELAYS A. MOTOR CONT. SZ S00 AND S0, SCREW TERMINAL			
4044259	1	CIRCUIT-BREAKER SCREW CONNECTION 12.5A SIRIUS Circuit breaker			
4064461	2	TRANSVERSE AUX. SWITCH, 1NO+1NC, SCREW CONNECTION 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 SIRIUS soft starters for standard applications			
4071000	1	CIRCUIT-BREAKER SCREW CONNECTION 0.32A SIRIUS Circuit breaker			
4070997	1	CONTACTOR,AC3:3KW 1NC DC24V SIRIUS Power contactor			
4044411	1	SURGE SUPPRESSOR, VARISTOR, AC 24...48V, DC 24...70V, F. CONT. RELAYS A. MOTOR CONT. SZ S00,			
4047811	1	Shield connection terminal 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 Plug-in bridge			

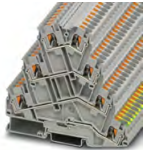
Summarized parts list

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

Summarized parts list

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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 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 End cover			
5003671	3	Ground terminal block Ground terminal			
5003670	2	End and partition plate for terminal block End cover			
5003669	2	Multi-level terminal block			
4067865	35	Feed-through terminal block Double-level terminal block			
4067867	18	End and partition plate for terminal block End cover			

Summarized parts list

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

Summarized parts list

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

Summarized parts list

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

Summarized parts list

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

Summarized parts list

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Order number	Quantity	Designation	Type number	Manufacturer	Image
	0				
4071528	1	Levelsensor			
4071046	1	Magnetostrictive sensors			
4071813	1	hydraulic pressure sensor 0...250bar ; 4...20mA			
4068204	1	Pressure transducer 0...25 bar , 4...20 mA M12 4pol			
4071229	1	Temperaturmessung mit Umformer M12 4POL , 4...20mA , -25... +100C			
	1	Lüfter für Ölkühler 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 SZ Interface extension, with wallconnection, RJ 45, L: 2000 mm			
4071270	1	Assembled sensor actuator-line M12 male 0° A-cod. with cable PUR 8x0.25 gy UL/CSA+drag ch. 0.6m			
	10.00	Power and control cables 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 M12x1 8x0.25			
4071188	3	Assembled sensor actuator-line M12 female 0° A-cod. with cable shielded PUR 4x0.34 shielded bk UL/CSA+drag ch. 3m			

Summarized parts list

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

Summarized parts list

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

ASCO_F09_004ASCO_F09_004ASCO_F09_004ASCO_F09_0041.1

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

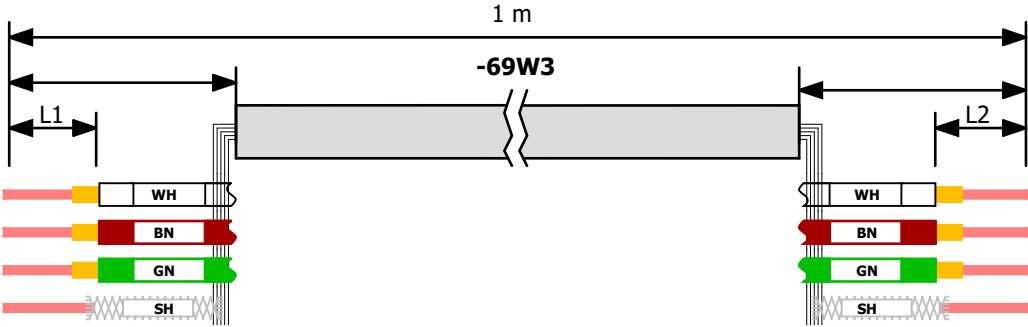
Manufacturer

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			



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			



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

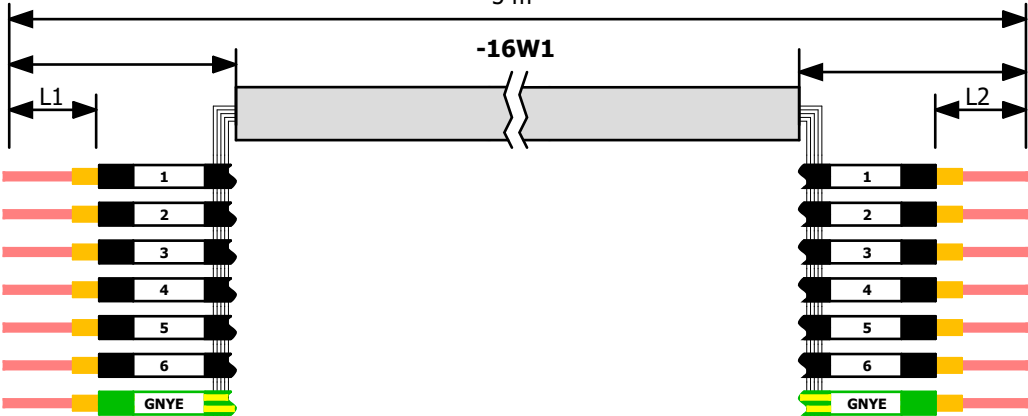
Manufacturer

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	=			



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 Kohlenensäure 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

Cable type

Free conductors

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

8x0,25 mm²

8

remote maintenance module (VPN)

Manufacturer

Order number

Rittal

4071505

Mounting location:	Source	Function text source	Stopper	L1 [mm]	Part number

2 m

-61W9

L1

L2

WH1

WH2

WH3

WH4

WH5

WH6

WH7

WH8

WH1

WH2

WH3

WH4

WH5

WH6

WH7

WH8

Part number	L2 [mm]	Stopper	Function text target	Target	Mounting location:

Cable name

Cable type

Free conductors

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

8x0,25 mm²

2

Manufacturer

Order number

Murrelektronik

4071270

Mounting location:	Source	Function text source	Stopper	L1 [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

WH

BN

GN

YE

GY

PK

BU

RD

Part number	L2 [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

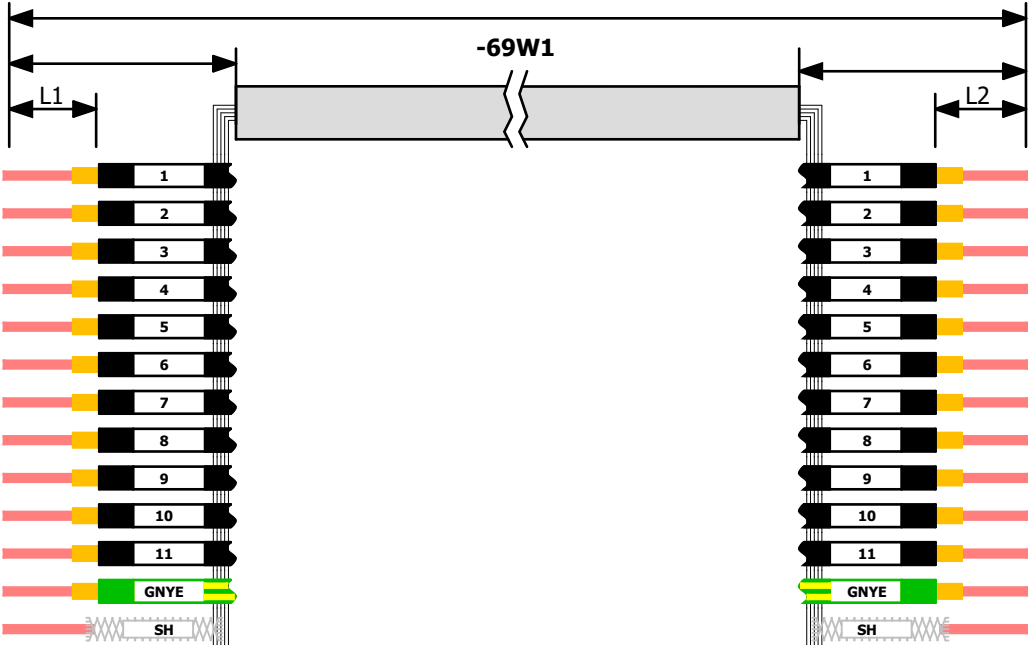
ASCO CO2 Detector

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

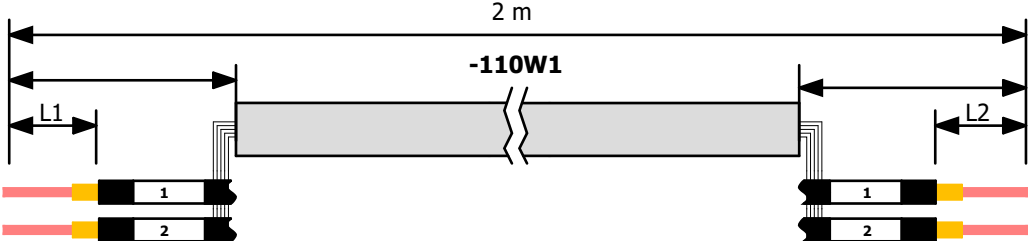
Manufacturer

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

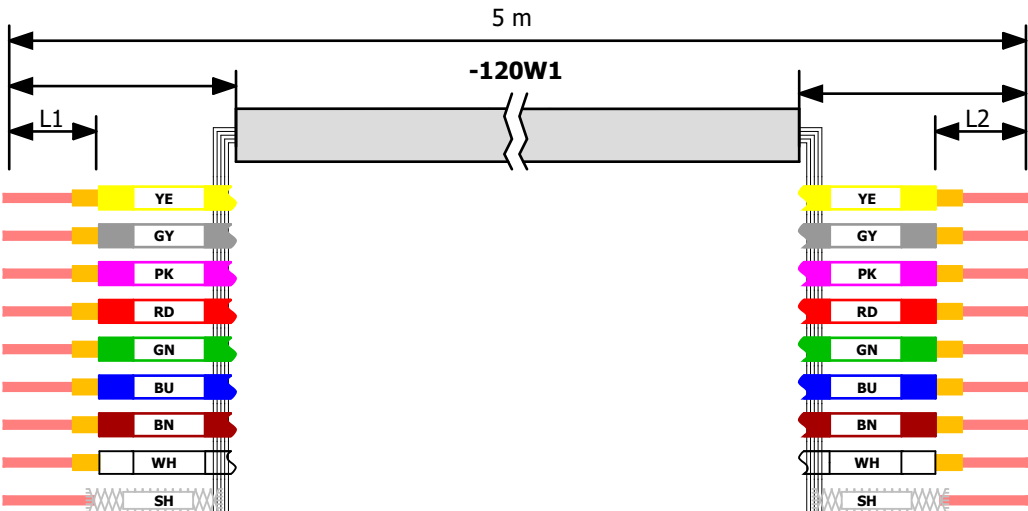
Manufacturer

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

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

Cable type

4x0,34 mm²

Free conductors

0

Plant part 1 pressure measurement hydraulic

3 m

-120W5

Manufacturer

Murrelektronik

Order number

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	=			

BN

WH

BU

BK

SH

BN

WH

BU

BK

SH

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

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

Cable type

4x0,34 mm²

Free conductors

2

Plant part 1 Pressure measurement CO2

3 m

-120W7

Manufacturer

Murrelektronik

Order number

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			

BN

WH

BU

BK

SH

BN

WH

BU

BK

SH

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

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

Cable type

4x0,34 mm²

Free conductors

0

Plant part 1 Hydraulic oil temperature

3 m

-120W9

Manufacturer

Murrelektronik

Order number

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	=			

BN

WH

BU

BK

SH

BN

WH

BU

BK

SH

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

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

Cable type

3x0,5 mm²

Free conductors

0

Plant part 1 CO2 valve 1

2.2 m

-130W1

Manufacturer

Lütze

Order number

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	=			

1

2

GNYE

1

2

GNYE

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

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

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	=			

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

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

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	=			

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

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

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	=			

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

Cable overview

ASCO_F10_001

[illegible]

V500	31.01.2024	ASCO	Date	28.07.2026	 ASCO All about CO ₂	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Cable overview	Project-No.:	Project designation:		= AUS04		
			Editor							Dry Ice Pelletizer P15 EVO / P28 EVO CE US V532		+	
										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 =P15(i)_P28(i)+SS01 -15X1 Hydraulic motor 1							Cable name						Page / column
									terminal	Level	jumper	Target designation Internal	Connection point	cable type								
Hydraulic motor 1								+TEIL1-15M1	U	5	1	4	4	•	-15Q2	2T1						/15.1
=								2	+TEIL1-15M1	V	6	2	3	3	•	-15Q2	4T2					/15.1
=								3	+TEIL1-15M1	W	7	3	2	2	•	-15Q2	6T3					/15.1
=								GNYE	+TEIL1-15M1	PE	1	4		1							/15.1	

Terminal diagram

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

Terminal diagram

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

Terminal diagram

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

Terminal diagram

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

Terminal diagram

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

Terminal diagram

function text								Cable name	Terminal strip =P15(i)_P28(i)+SS01 -65X1 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 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								+EXT-6SW1	Cable name	Terminal strip =P15(i)_P28(i)+SS01 -66X1 Interface 1						Cable name						Page / column
								ÖLFLEX® CLASSIC 110 CY 18x1,5 mm²	cable type	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	cable type					
								5		=R85EVO+EXT-82X1	11:4	4	1	1	1	•	-41X7	1:3				/66.0
										=R85EVO+EXT-82X1	12:3	3	2		2	•						/66.0
Interface 1 External Start / Stop (1 = start) (0 = Stop after end of cycle)								6		=R85EVO+EXT-82X1	13:4	4	3	1	1	•	-50KF25	1				/66.1
Interface 1 Drain Machine (1 = drain)								7		=R85EVO+EXT-82X1	14:3	3	4	2	2	•	-50KF25	2				/66.2
Interface 1 next batch (1 = next)								8		=R85EVO+EXT-82X1	15:4	4	5	1	1	•	-50KF25	3				/66.3
Interface 1 additional start condition (1 = approval)								9		=R85EVO+EXT-82X1	16:3	3	6	2	2	•	-50KF25	4				/66.4
Spare													7	1	1	•	-50KF25	5				/66.5
=													8	2	2	•	-50KF25	6				/66.6
=													9	1	1	•	-50KF25	7				/66.7
=													10	2	2	•	-50KF25	8				/66.8
								10		=R85EVO+EXT-82X1	1:4	4	11	1	1	•	-67K1	11				/67.0
								11		=R85EVO+EXT-82X1	2:3	3	12		2	•						/67.0
Interface 1 Machine ready (1 = ready)								12		=R85EVO+EXT-82X1	3:4	4	13	1	1	•	-67K1	14				/67.1
Interface 1 Machine active (1 = active)								13		=R85EVO+EXT-82X1	4:3	3	14	2	2	•	-67K2	14				/67.2
Interface 1 Batch completed (1 = completed)								14		=R85EVO+EXT-82X1	5:4	4	15	1	1	•	-67K3	14				/67.3
Interface 1 Machine drained (1 = empty)								15		=R85EVO+EXT-82X1	6:3	3	16	2	2	•	-67K4	14				/67.4
=													17		1	•						/67.4
=								GNYE				3	18		2	•						/67.5

Terminal diagram

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

Terminal diagram

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

Terminal diagram

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

Terminal diagram

function text								+EXT-110W1	Cable name	Terminal strip =P15(i)_P28(i)+SS01 -110X1 Plant part 1 oil level						Cable name						Page / column
								ÖLFLEX® 150 2x0.75 mm	cable type	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	cable type					
Plant part 1 oil level								1		+EXT-110B1	1	4	1	1	•	-41X3	3:1					/110.1
=								2		+EXT-110B1	2	3	2	2	•	-50KF21	14					/110.1
=												3	1	•								/110.1
=												4	2	•								/110.1
=												5	1	•								/110.2
=												6	2	•								/110.2

Terminal diagram

function text								+EXT-120W1	Cable name	Terminal strip =P15(i)_P28(i)+SS01 -120X1 Plant part 1 linear measurement							Cable name						Page / column
										Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point							
Plant part 1 linear measurement								BCC M428-0000-1A-133-PS0825-0402 8x0.25 mm²		+EXT-120B1	7	4 1 1	1	•	-41X3	3:2							/120.1
=								BU		+EXT-120B1	6	3 2 2	2	•	-40X1	4:3							/120.1
=								GN		+EXT-120B1	5	4 3 1	1	•	-50KF31	5							/120.1
=								GY		+EXT-120B1	2	3 4 2	2	•	-50KF31	7							/120.1
=								PK		+EXT-120B1	3	4 5	1	•									/120.1
=								YE		+EXT-120B1	1	3 6	2	•									/120.2
=								RD		+EXT-120B1	4	4 7	1	•									/120.2
=								WH		+EXT-120B1	8	3 8	2	•									/120.2
=								SH		+EXT-120W1	SH	4 9	1	•									/120.2
=												10	2	•									/120.2

Terminal diagram

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

Terminal diagram

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

Terminal diagram

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

Terminal diagram

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

Terminal diagram

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

Terminal diagram

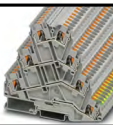
function text									Cable name	Terminal strip =P15(i)_P28(i)+SS01 -40XT5 Power supply unit Disconnect terminal							Cable name					Page / column
									cable type	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	cable type					
Power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

Terminal line-up diagram

[illegible]

Hydraulic motor 1

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

			
			
I	1		
I	2		
I	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

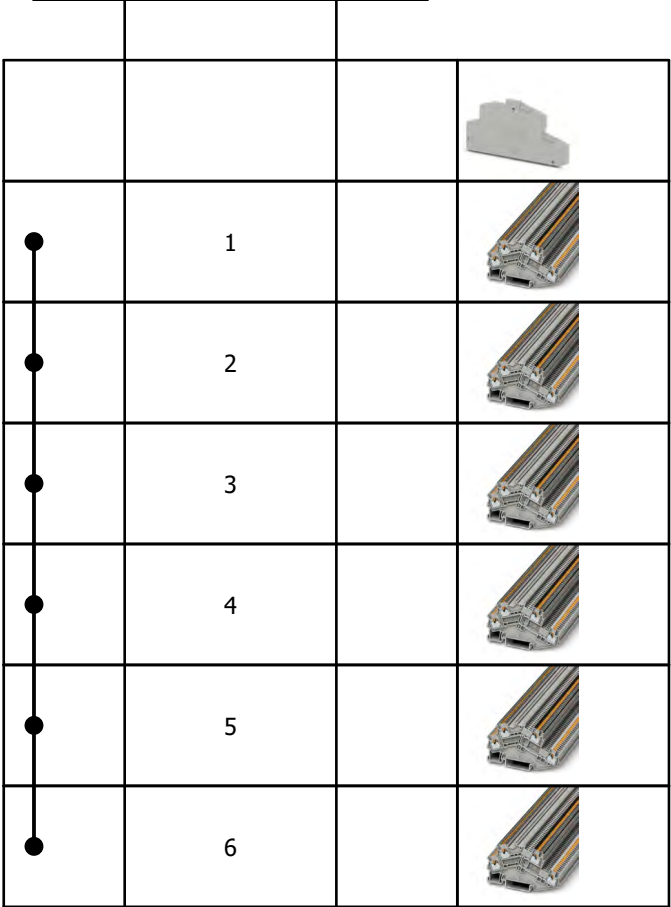
			
			
'	1		
'	2		
'	3		
	4		
'	5		
'	6		

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

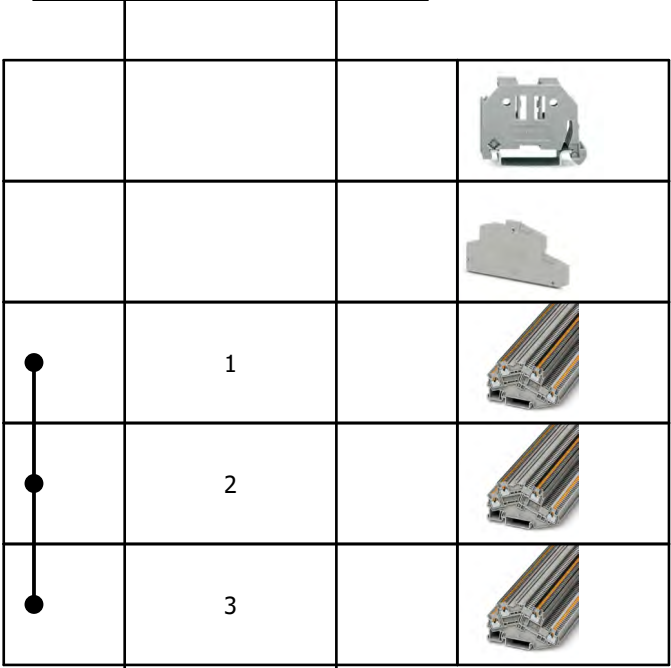


Terminal line-up diagram

Part number					
Mounting rail			Strip label	End angle rear	End plate
				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.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 1

=P15(i)_P28(i)
+SS01
-41X1

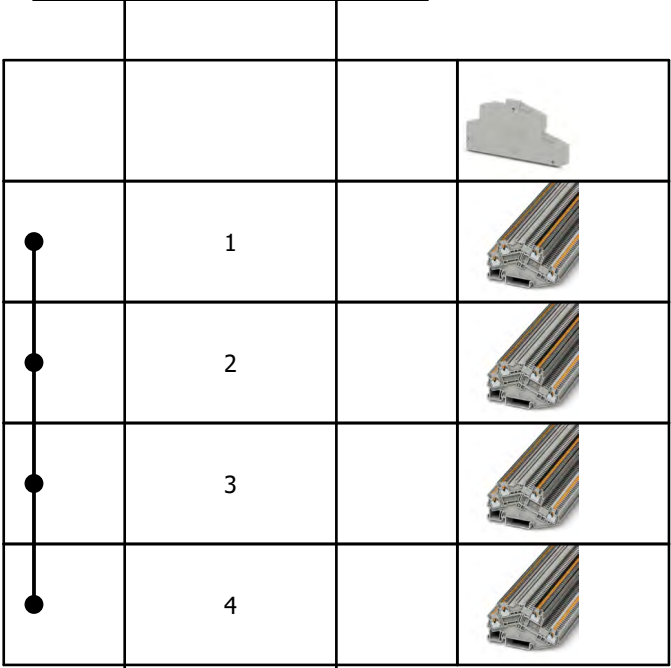


Terminal line-up diagram

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



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

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

			
			
'	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
oil level

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

			
'	1		
'	2		
'	3		
'	4		
'	5		
'	6		

Terminal line-up diagram

Plant part 1
oil temperature

[illegible]

=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

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			

Plant part 1
Pressure measurement CO2

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

			
			
'	1		
'	2		
'	3		
'	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	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.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			

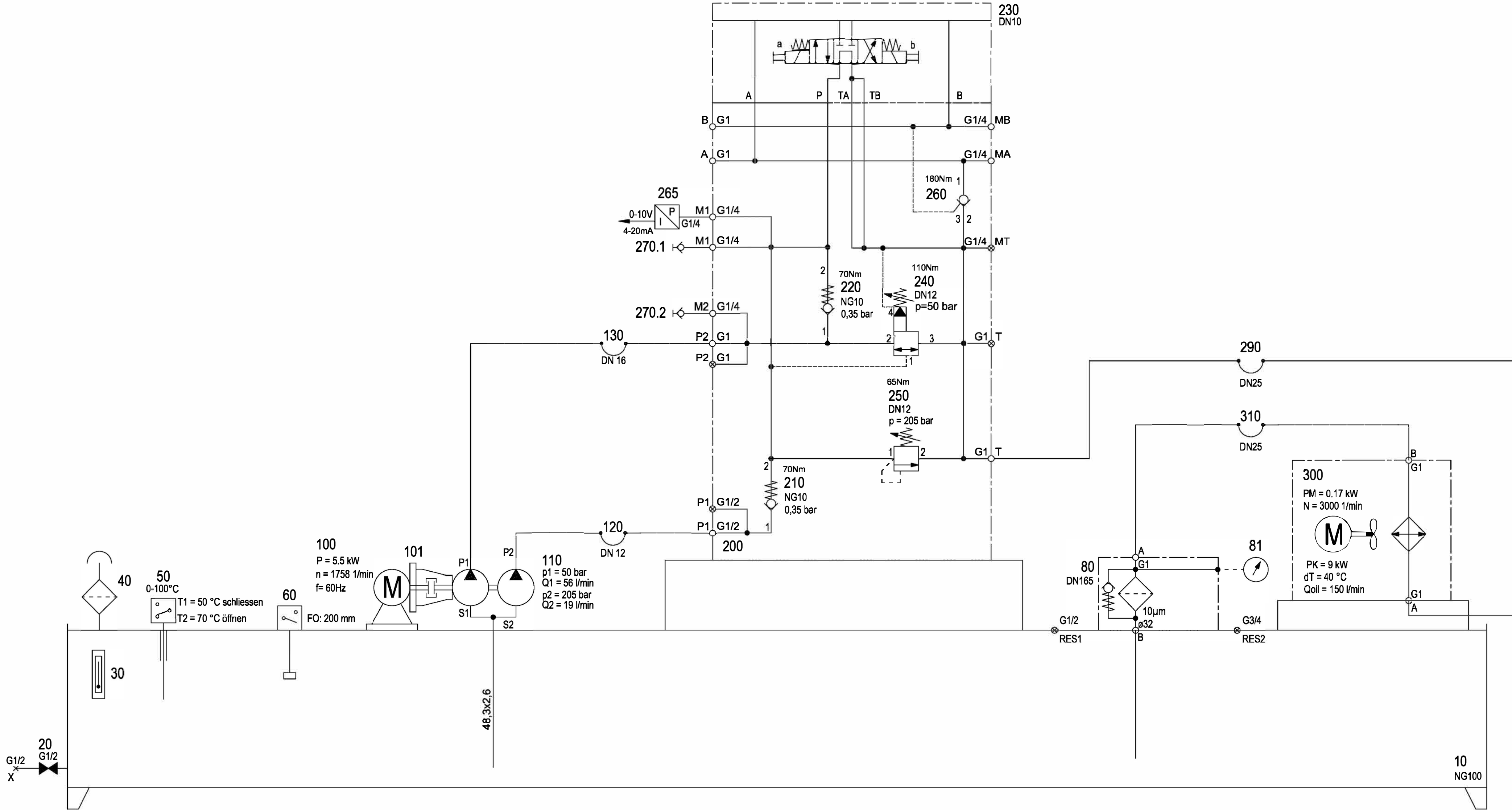
Power supply unit
Disconnect terminal

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

			
			
			
	1		
'	2		
'	3		

HYDRAULIC

Aggregatsgrenze



Umgebungstemperatur : 0-40°C
Öreinheit : 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. Ord.-/Devel.-/Project-No			
	19.11.2024	HUSERP					
Anz./ No Index/ Index	gepr. am chkd. on geänd. am modif. on	gepr. von checked geänd. von modif. by	Ä. M. Nr. Noti ceof change No	Vers./Rev. H	Datum/Date	Name/Name	 All about CO2
				gez./drawn	19.03.2024	BURRIW	
				gepr./chkd.	19.03.2024	EROLM	
Blatt von/ Sheet of 1/1		Benennung/Descripti on				Zeichn.-Nr./ Draw.-No	
Format/Size A2		P&ID HPU-M-100-1x5,5-HE-24003 *P28i UL*				4811481	
Draft/Si ght 2022						alte Mat.Nr./old Mat. No:	
						Dok.Nr./Doc No:	
						Ers. für/Exchange for:	
						Ers. durch/Replaced by:	

