ASCO
All about CO_2

DIAGRAM
ELECTRIC
HYDRAULIC

ASCO DRY ICE PELLETIZER
P28 EVO

from SN 25-032-001
ascoco2.com

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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 V510

Plant designation:

Degree of protection:	IP 54
Power input:	CE: 3x400 VAC / 50 Hz / 25 A -- US: 3x480 VAC / 60 Hz / 25 A
Control voltage:	24 VDC
Rotary field:	Clockwise
Pre-fuse:	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

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Structure identifier overview

Full designation	Structure description
Funktionskennzeichen	
=P15(i)_P28(i)	Pelletizer P15(i) P28(i)
=R70i	Reformer R70i
=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

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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

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Cable cross section

Cross-section:	Current load:	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

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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 controled 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

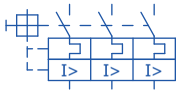

Contactor, relay


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

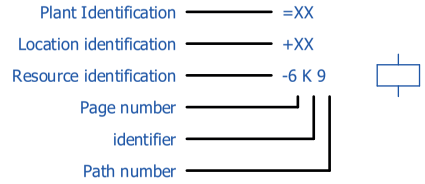

Engage changer delayed


Siren

Disconnector

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, Disconnector, Contactor
R	Resistor, Coil, Semiconductor
S	switch, pushbutton
T	Converter, amplifier, Controller
W	conductor, Cable
X	Terminal, Plug
Y	Valve, Brake, Coupling



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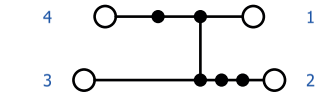
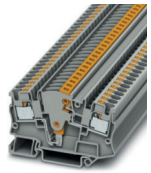
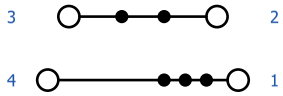
Terminal numbering

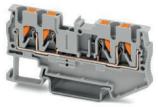


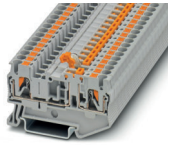




Terminal

2
1





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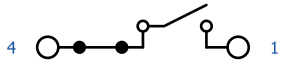
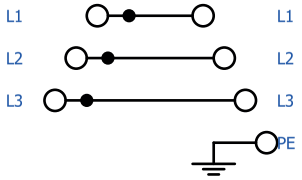


1

Terminal



1
2
3
4

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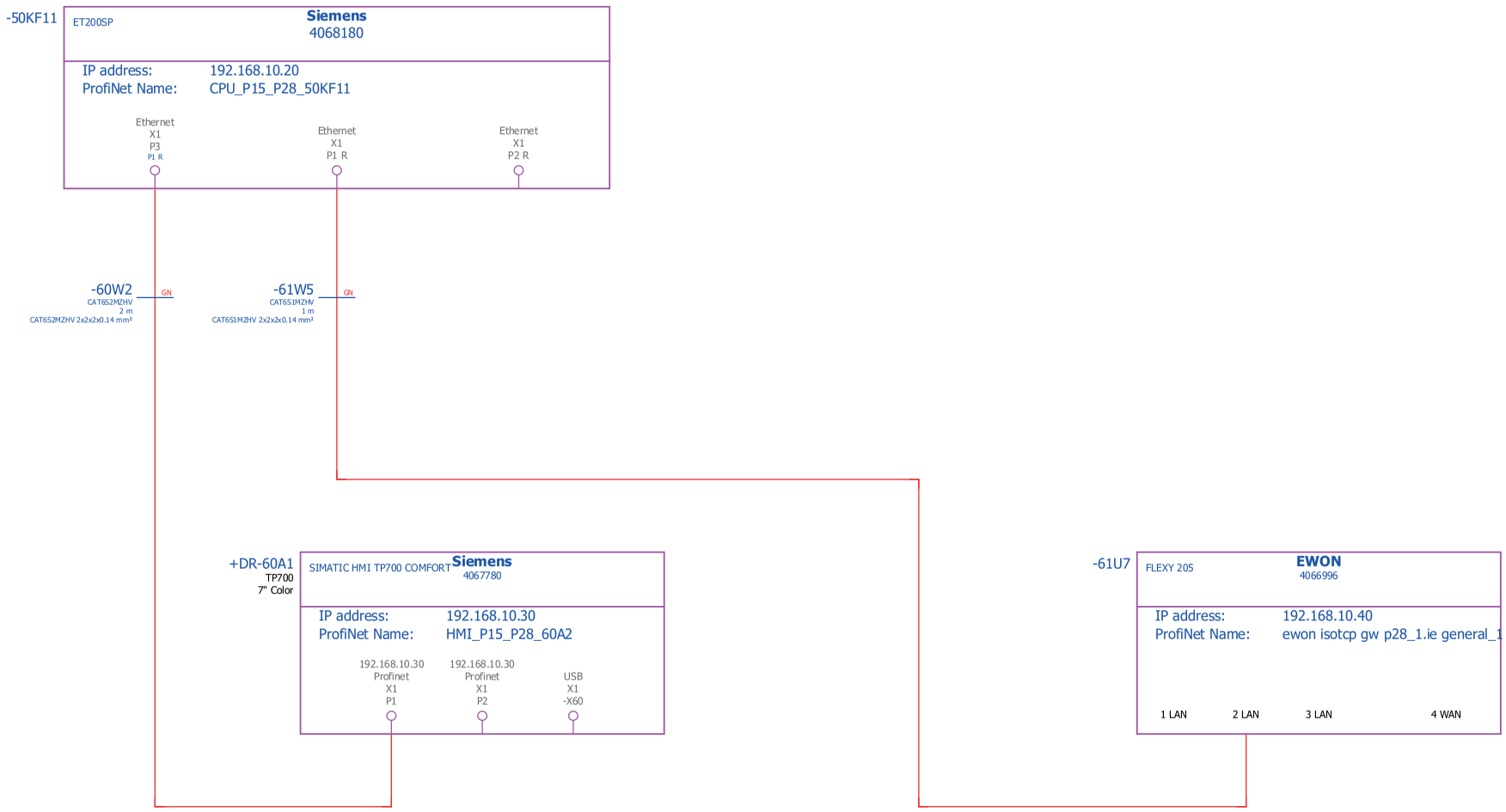

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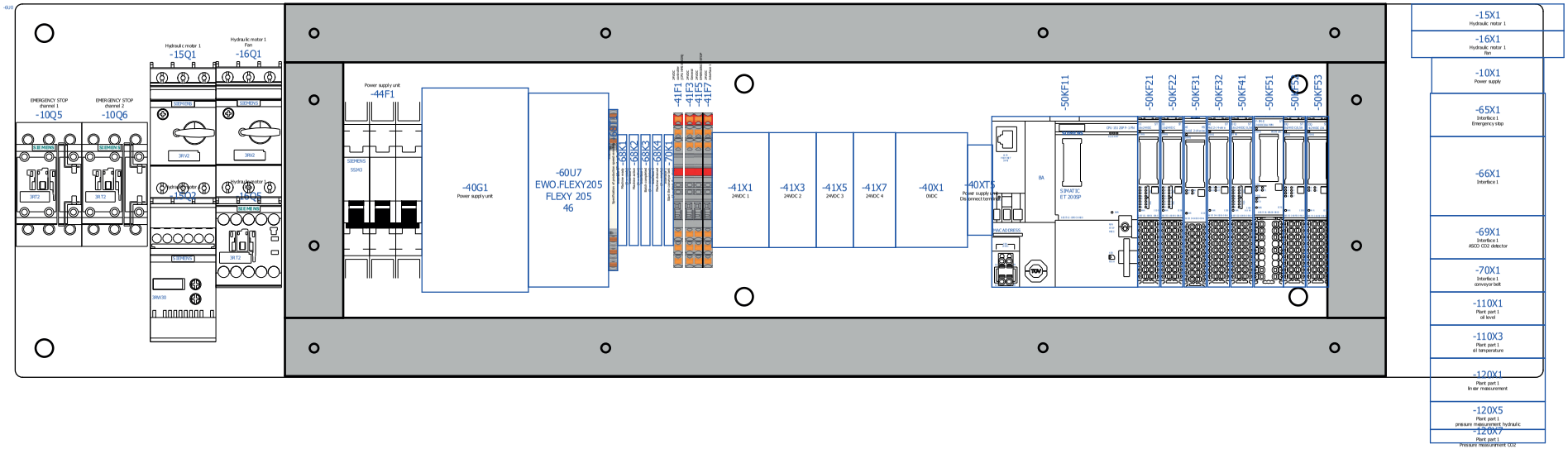

BxH: 1050mmx257mm
(Standard P15/P28 Montageplatte)

5 6.1

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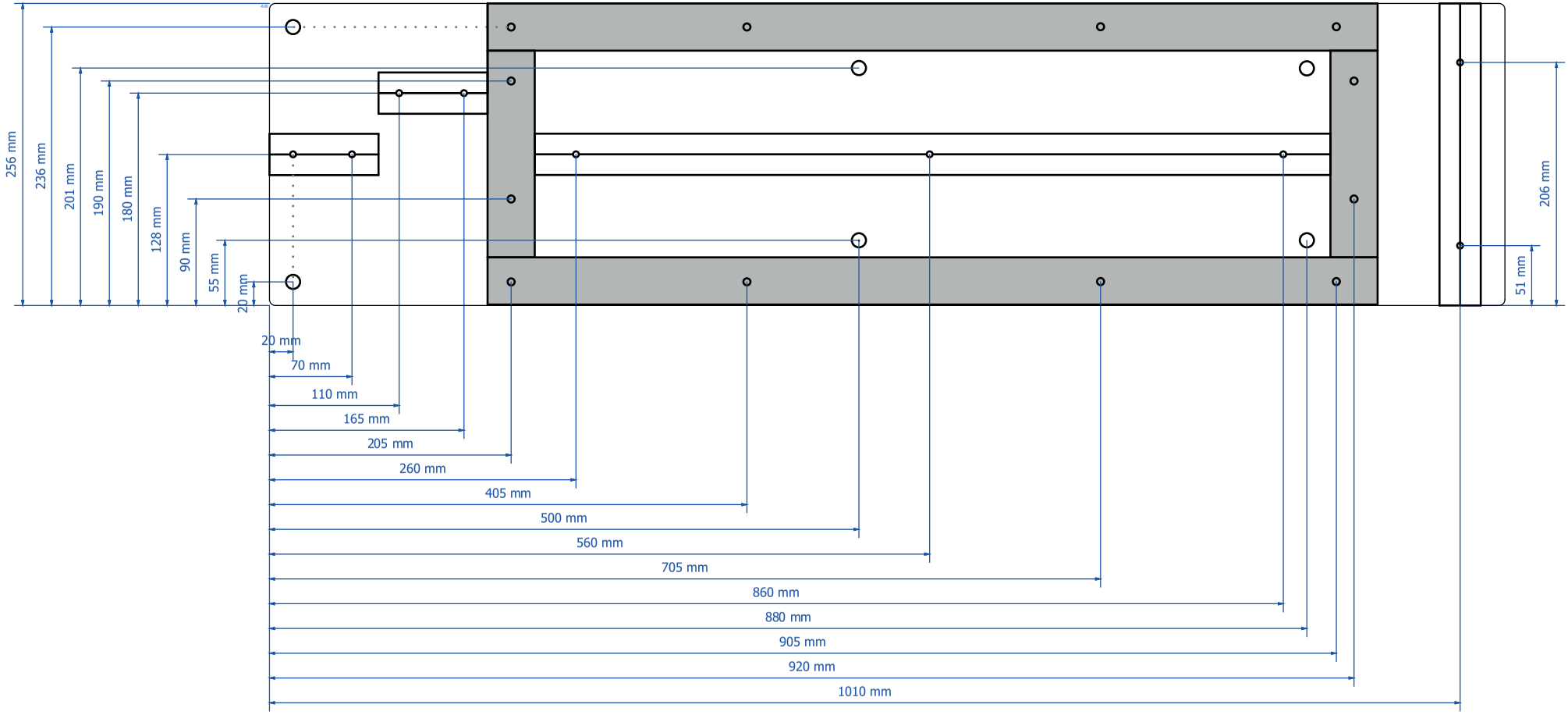

BxH: 1050mmx257mm
(Standard P15/P28 Montageplatte)

Platte : ∅12 (6x)
Kanal : ∅6 (12x)
Schiene : M5 (7x)

6 6.2

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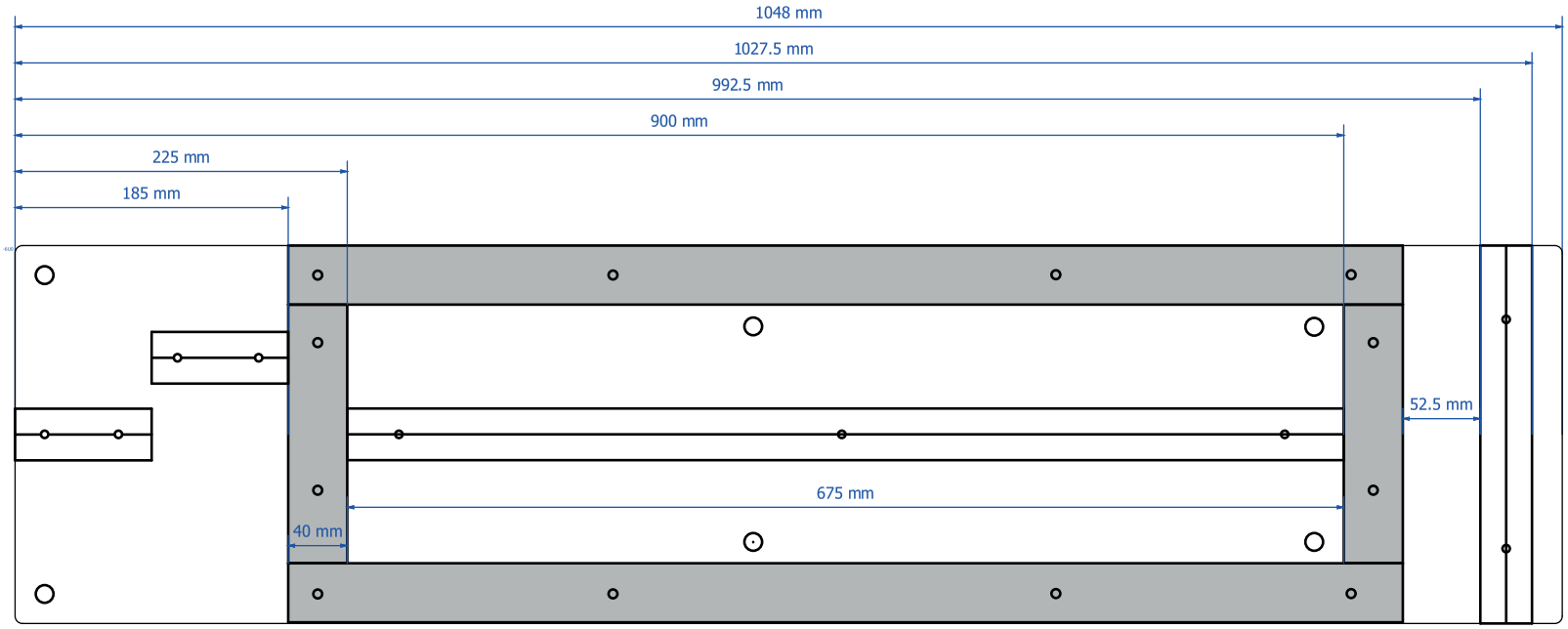

BxH: 1050mmx257mm
(Standard P15/P28 Montageplatte)

Platte : ∅12 (6x)
Kanal : ∅6 (12x)
Schiene : M5 (7x)

6.1 6.3

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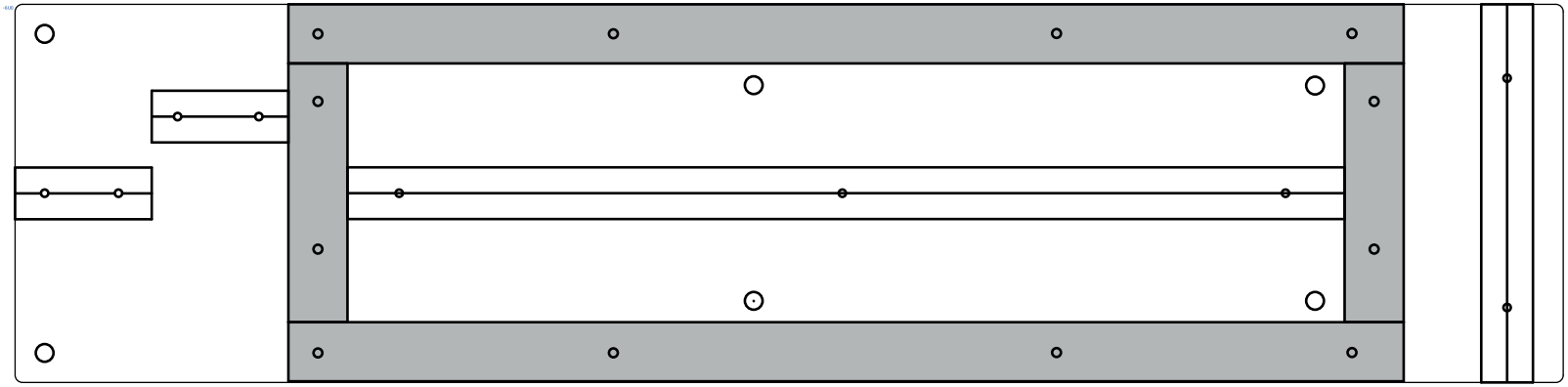

BxH: 1050mmx257mm
(Standard P15/P28 Montageplatte)

Platte : ∅12 (6x)
Kanal : ∅6 (12x)
Schiene : M5 (7x)

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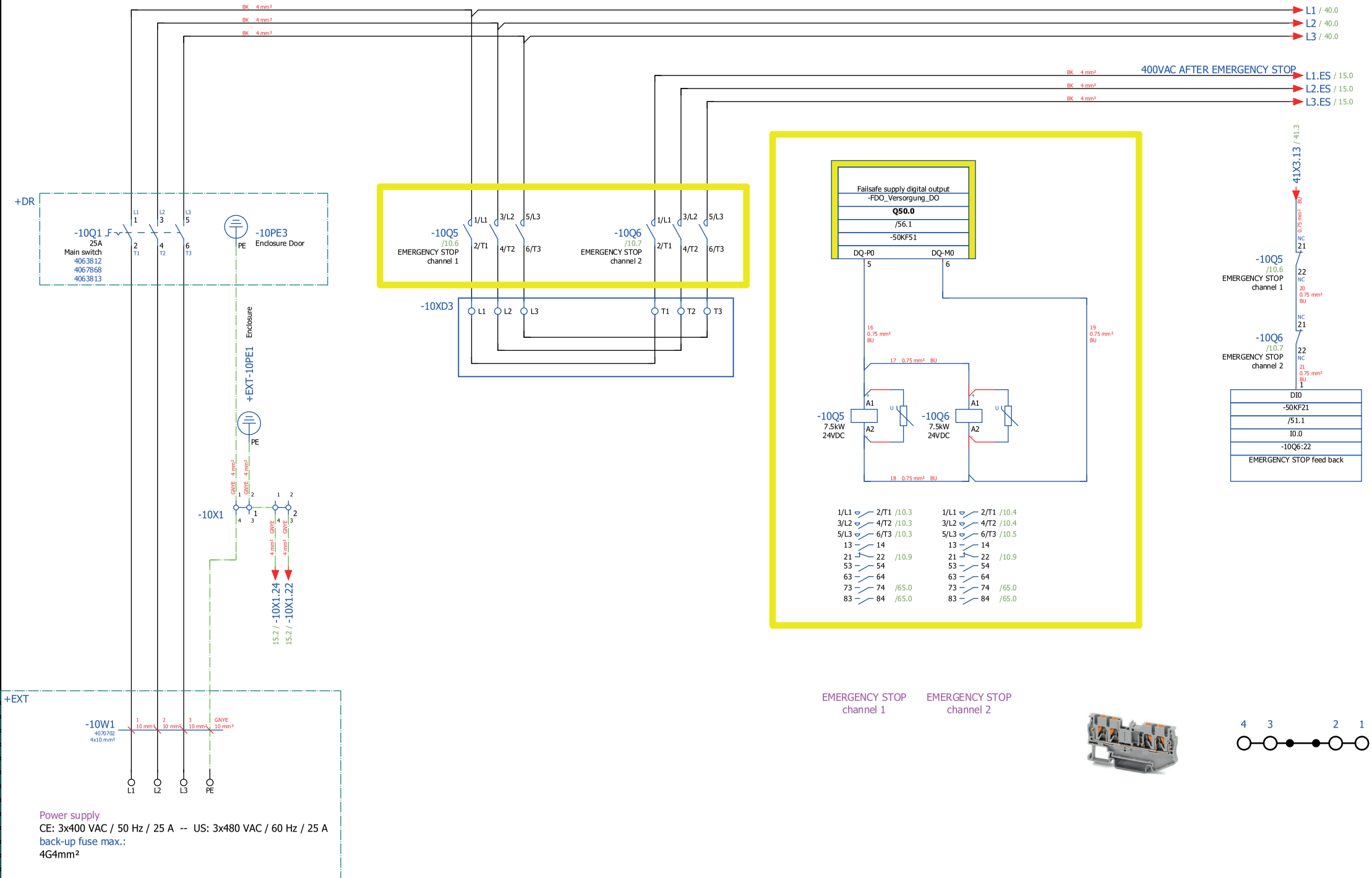

6.3

15

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Page description:
Power supply

Project-No.:

Project designation:
Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510

Scheme-No.:

Scheme-No. Customer:

Project-No. Customer:

= P15(i)_P28(i)
+ SS01
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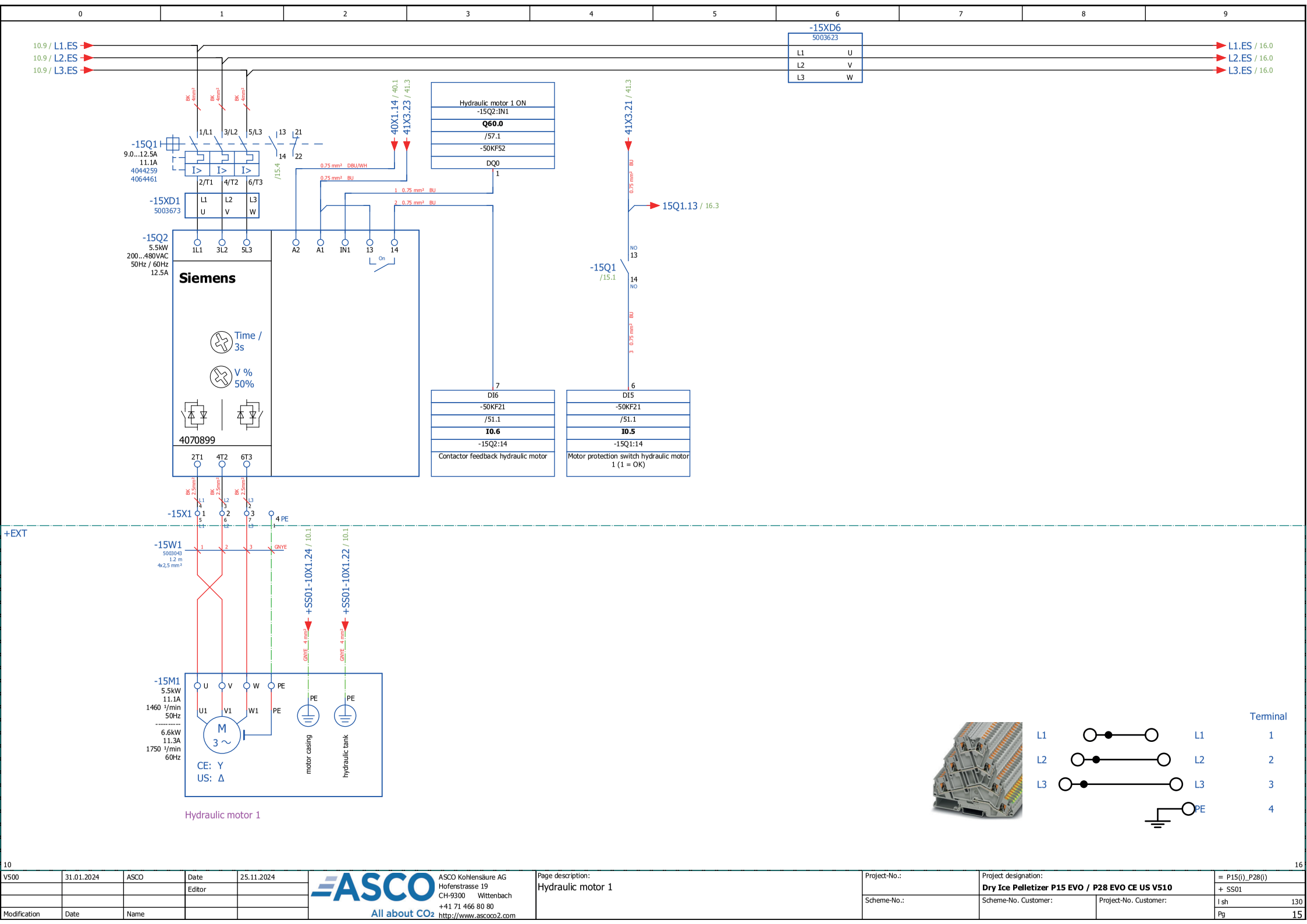

10 16

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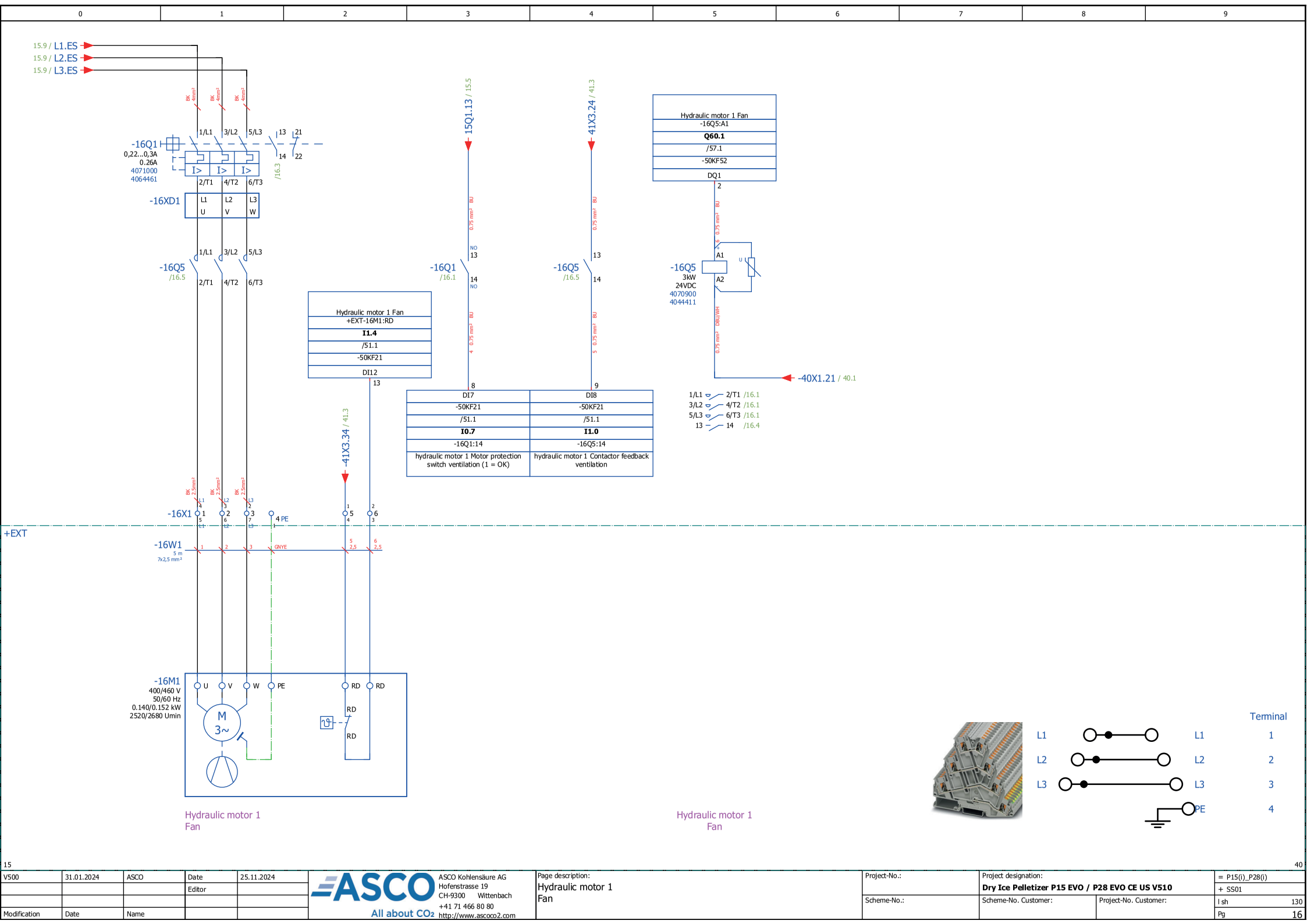

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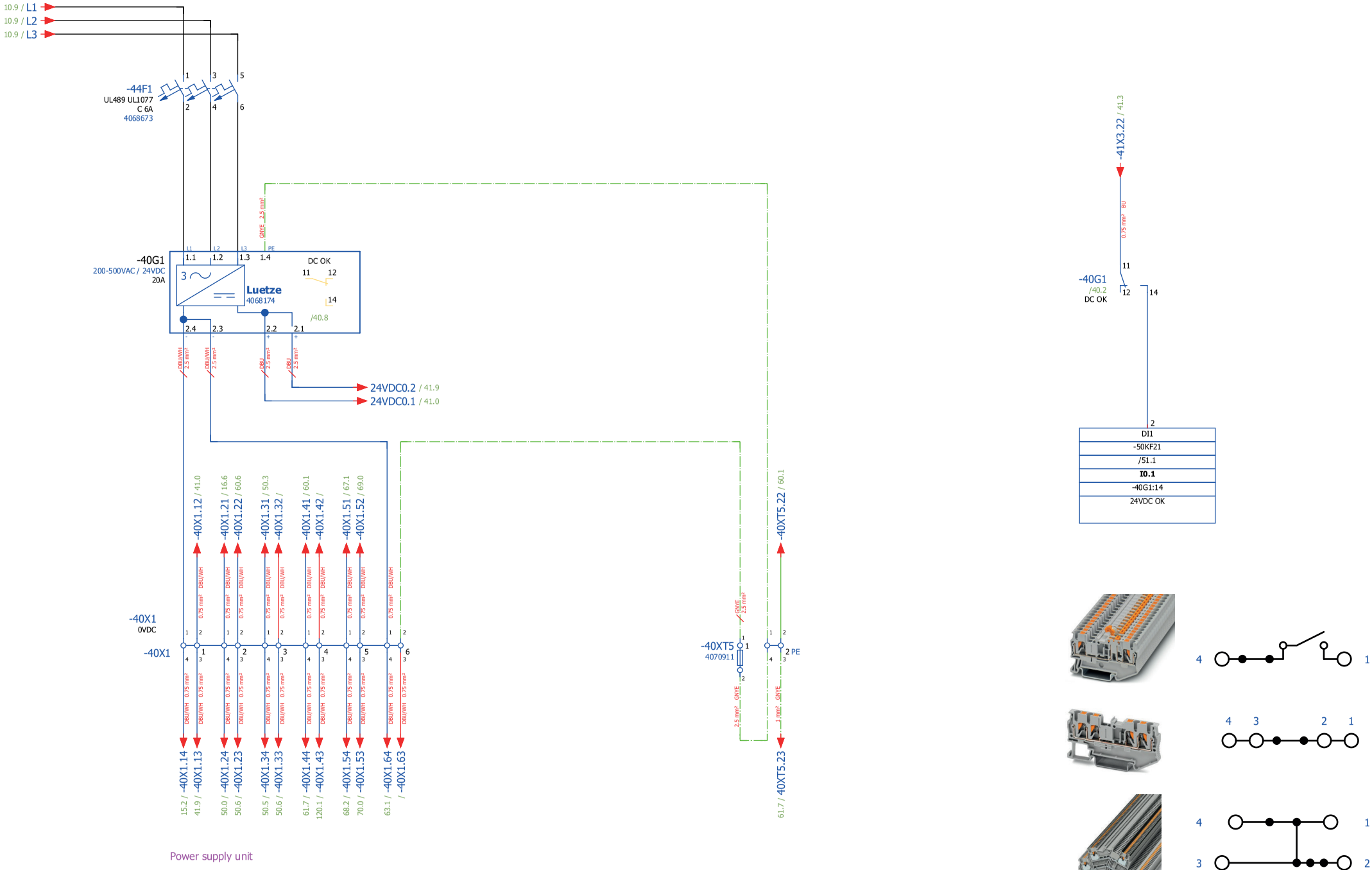

Power supply unit

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			Editor				Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130 Pg 40
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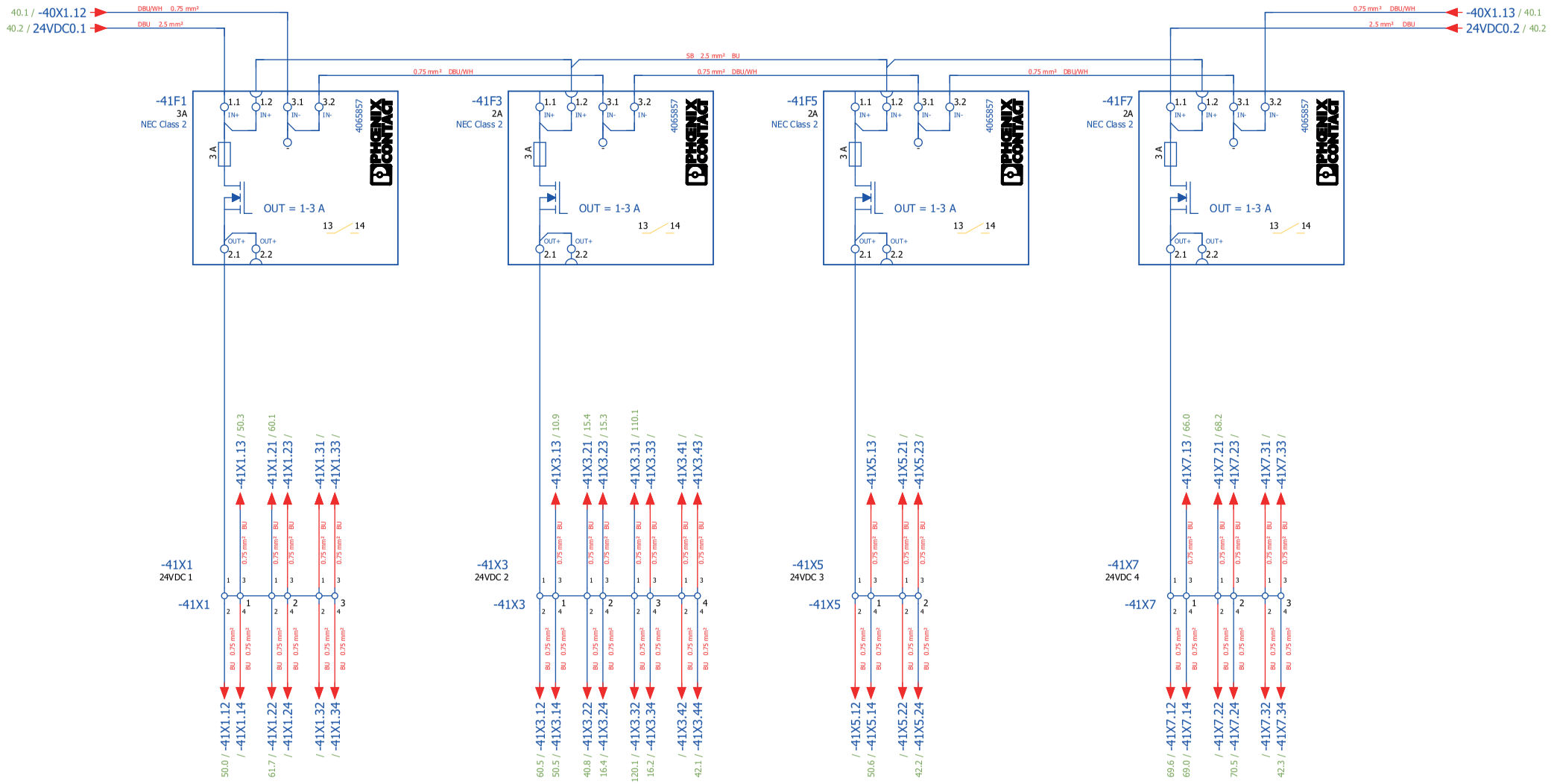


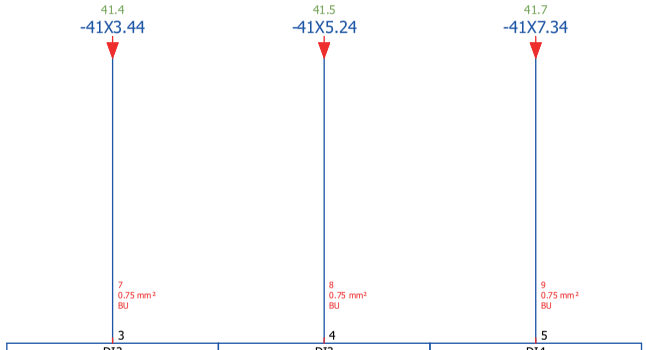
24VDC
controller
(CPU HMI EWON)

24VDC
General

24VDC
EMERGENCY STOP

24VDC
Interface 1

V500	31.01.2024	ASCO	Date	25.11.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Voltage processing 24VDC	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= P15(i)_P28(i)
			Editor						+ SS01
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130
Modification	Date	Name							Pg 41

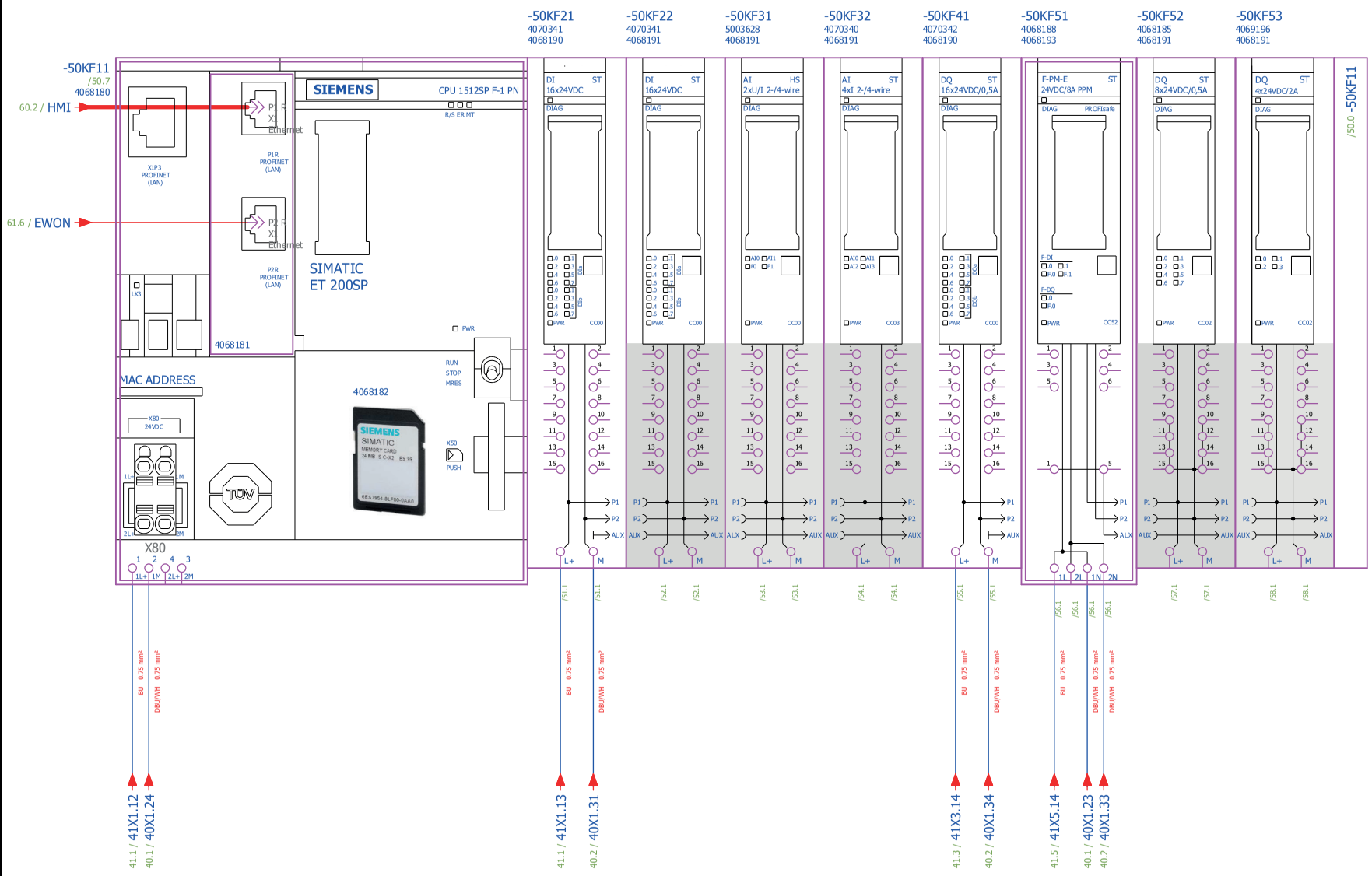


24VDC 2
General

24VDC 3
EMERGENCY STOP

24VDC 4
Interface 1

V500	31.01.2024	ASCO	Date	25.11.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Voltage processing 24VDC feedback	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= P15(i)_P28(i)
			Editor						+ SS01
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130
Modification	Date	Name							Pg 42



Doppelte Masseleitung erforderlich

⚠ WARNUNG

Für das F-PM-E 24VDC/8A PPM ST muss die Masseleitung zum BaseUnit aus Sicherheitsgründen doppelt verlegt werden. Ansonsten könnte bei der Unterbrechung einer einfachen Masseleitung die Potenzialschiene P2 nicht mehr sicherheitsgerichtet abgeschaltet werden.

V500	31.01.2024	ASCO	Date	25.11.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: SPS-Aufbau	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= P15(i)_P28(i)
			Editor						+ SS01
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130
Modification	Date	Name							Pg 50

-50KF21
/50.2

Siemens
4070341
4068190

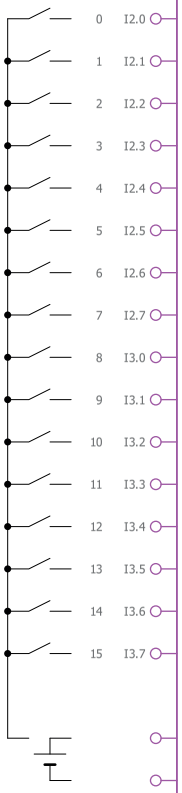
0	I0.0	1 DI0	/10.9	-10Q6:22	EMERGENCY STOP feed back
1	I0.1	2 DI1	/40.8	-40G1:14	24VDC OK
2	I0.2	3 DI2	/42.1	-41X3:4	24VDC 2 General
3	I0.3	4 DI3	/42.2	-41X5:2	24VDC 3 EMERGENCY STOP
4	I0.4	5 DI4	/42.3	-41X7:3	24VDC 4 Interface 1
5	I0.5	6 DI5	/15.4	-15Q1:14	Motor protection switch hydraulic motor 1 (1 = OK)
6	I0.6	7 DI6	/15.3	-15Q2:14	Contactor feedback hydraulic motor
7	I0.7	8 DI7	/16.3	-16Q1:14	hydraulic motor 1 Motor protection switch ventilation (1 = OK)
8	I1.0	9 DI8	/16.4	-16Q5:14	hydraulic motor 1 Contactor feedback ventilation
9	I1.1	10 DI9	/60.5	+DR-60S5:14	Movement confirmation
10	I1.2	11 DI10			
11	I1.3	12 DI11			
12	I1.4	13 DI12	/16.2	+EXT-16M1:RD	Hydraulic motor 1 Fan
13	I1.5	14 DI13	/110.1	+EXT-110B1:3	Plant part 1 oil level
14	I1.6	15 DI14	/110.3		Spare
15	I1.7	16 DI15	/110.4		Spare
		L+ 24VDC	/50.3		
		M 0VDC	/50.3		
		SH			

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

V500	31.01.2024	ASCO	Date	25.11.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: PLC overview	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= P15(i)_P28(i)
			Editor						+ SS01
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130
Modification	Date	Name							Pg 51

-50KF22
/50.3

Siemens
4070341
4068191



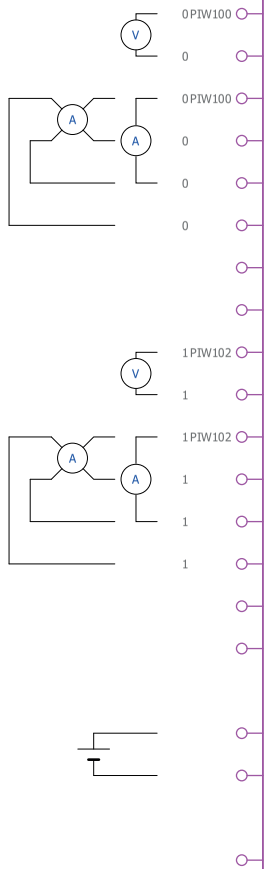
0	I2.0	1 DI0	/66.1		Interface 1 External Start / Stop (1 = start) (0 = Stop after end of cycle)
1	I2.1	2 DI1	/66.2		Interface 1 Drain Machine (1 = drain)
2	I2.2	3 DI2	/66.3		Interface 1 next batch (1 = next)
3	I2.3	4 DI3	/66.4		Interface 1 additional start condition (1 = approval)
4	I2.4	5 DI4	/66.5	-66X1:7	Spare
5	I2.5	6 DI5	/66.6	-66X1:8	Spare
6	I2.6	7 DI6	/66.7	-66X1:9	Spare
7	I2.7	8 DI7	/66.8	-66X1:10	Spare
8	I3.0	9 DI8	/69.6	+EXT-69A1:33	Interface 1 CO2 ALARM 3 configurable
9	I3.1	10 DI9	/69.7	+EXT-69A1:23	Interface 1 CO2 ALARM 2 configurable
10	I3.2	11 DI10	/69.8	+EXT-69A1:13	Interface 1 CO2 ALARM 1 8h over 0.5%
11	I3.3	12 DI11			
12	I3.4	13 DI12			
13	I3.5	14 DI13			
14	I3.6	15 DI14			
15	I3.7	16 DI15	/70.5	+CVB-20K1:31	Interface 1 conveyor belt (1 = active, 0 = stopped)
		L+ 24VDC	/50.3		
		M 0VDC	/50.3		
		SH			

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

V500	31.01.2024	ASCO	Date	25.11.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: PLC overview	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= P15(i)_P28(i)
			Editor						+ SS01
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130
Modification	Date	Name							Pg 52

-50KF31
/50.4

Siemens
5003628
4068191



0 PIW100	1 U0+			
0	3 U0-			
0 PIW100	5 I0+	/120.1	Plant part 1 linear measurement	
0	7 I0-	/120.1	Plant part 1 linear measurement	
0	9 UV0	/120.1	Plant part 1 linear measurement	
0	11 M0	/120.2	Plant part 1 linear measurement	
	13 RES			
	15 RES			
1 PIW102	2 U1+			
1	4 U1-			
1 PIW102	6 I1+	/120.5	Plant part 1 pressure measurement hydraulic	
1	8 I1-			
1	10 UV1	/120.5	Plant part 1 pressure measurement hydraulic	
1	12 M1			
	14 RES			
	16 RES			
	L+ 24VDC	/50.4		
	M 0VDC	/50.4		
	SH			

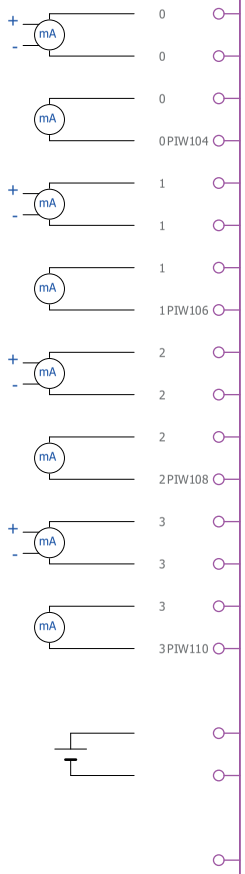
SIEMENS
6ES7193-6BP00-0BA0
6ES7134-6HB00-0DA1

52 54

V500	31.01.2024	ASCO	Date	25.11.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: PLC overview	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= P15(i)_P28(i)
			Editor						+ SS01
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130
Modification	Date	Name							Pg 53

-50KF32
/50.4

Siemens
4070340
4068191



/120.7	Plant part 1 Pressure measurement CO2
/120.7	Plant part 1 Pressure measurement CO2
/120.7	Plant part 1 Pressure measurement CO2
/120.7	Plant part 1 Pressure measurement CO2
/120.8	Plant part 1 Hydraulic oil temperature
/120.9	Plant part 1 Hydraulic oil temperature
/120.9	Plant part 1 Hydraulic oil temperature
/120.9	Plant part 1 Hydraulic oil temperature
/69.3	ASCO CO2 Detector
/69.3	ASCO CO2 Detector
/69.3	ASCO CO2 Detector
/69.4	ASCO CO2 Detector
/68.1	Interface 1 Specification of production speed remotely (4...20mA = 0...100%)
/68.1	Interface 1 Specification of production speed remotely (4...20mA = 0...100%)
/68.1	Interface 1 Specification of production speed remotely (4...20mA = 0...100%)
/68.1	Interface 1 Specification of production speed remotely (4...20mA = 0...100%)
/50.4	
/50.5	

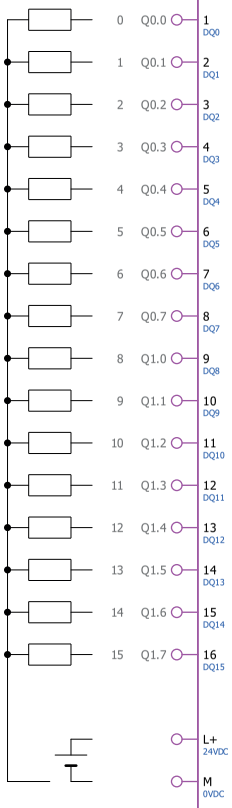
SIEMENS
6ES7193-6BP00-0BA0
6ES7134-6GD01-0BA1

53 55

V500	31.01.2024	ASCO	Date	25.11.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: PLC overview	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= P15(i)_P28(i)
			Editor						+ SS01
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130
Modification	Date	Name							Pg 54

-50KF41
/50.5

Siemens
4070342
4068190



0	Q0.0	1 DQ0	/67.1	-68K1:A1	Interface 1 Machine ready (1 = ready)
1	Q0.1	2 DQ1	/67.2	-68K2:A1	Interface 1 Machine active (1 = active)
2	Q0.2	3 DQ2	/67.3	-68K3:A1	Interface 1 Batch completed (1 = completed)
3	Q0.3	4 DQ3	/67.4	-68K4:A1	Interface 1 Machine drained (1 = empty)
4	Q0.4	5 DQ4			
5	Q0.5	6 DQ5			
6	Q0.6	7 DQ6			
7	Q0.7	8 DQ7			
8	Q1.0	9 DQ8	/70.1	-70K1:A1	Interface 1 Start the conveyor belt (1 = start, 0 = stop)
9	Q1.1	10 DQ9	/60.6	+DR-60S5:X1	Movement confirmation
10	Q1.2	11 DQ10	/60.9	+DR-60S7:X1	Emergency stop
11	Q1.3	12 DQ11	/63.2	+EXT-63X1:1	Signal tower blue
12	Q1.4	13 DQ12	/63.3	+EXT-63X1:2	Signal tower green
13	Q1.5	14 DQ13	/63.4	+EXT-63X1:3	Signal tower yellow
14	Q1.6	15 DQ14	/63.5	+EXT-63X1:4	Signal tower red
15	Q1.7	16 DQ15	/63.6	+EXT-63X1:5	Signal tower Buzzer
		L+ 24VDC	/50.5		
		M 0VDC	/50.5		
		SH			

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

V500	31.01.2024	ASCO	Date	25.11.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: PLC overview	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= P15(i)_P28(i)
			Editor						+ SS01
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130
Modification	Date	Name							Pg 55

-50KF51
/50.5

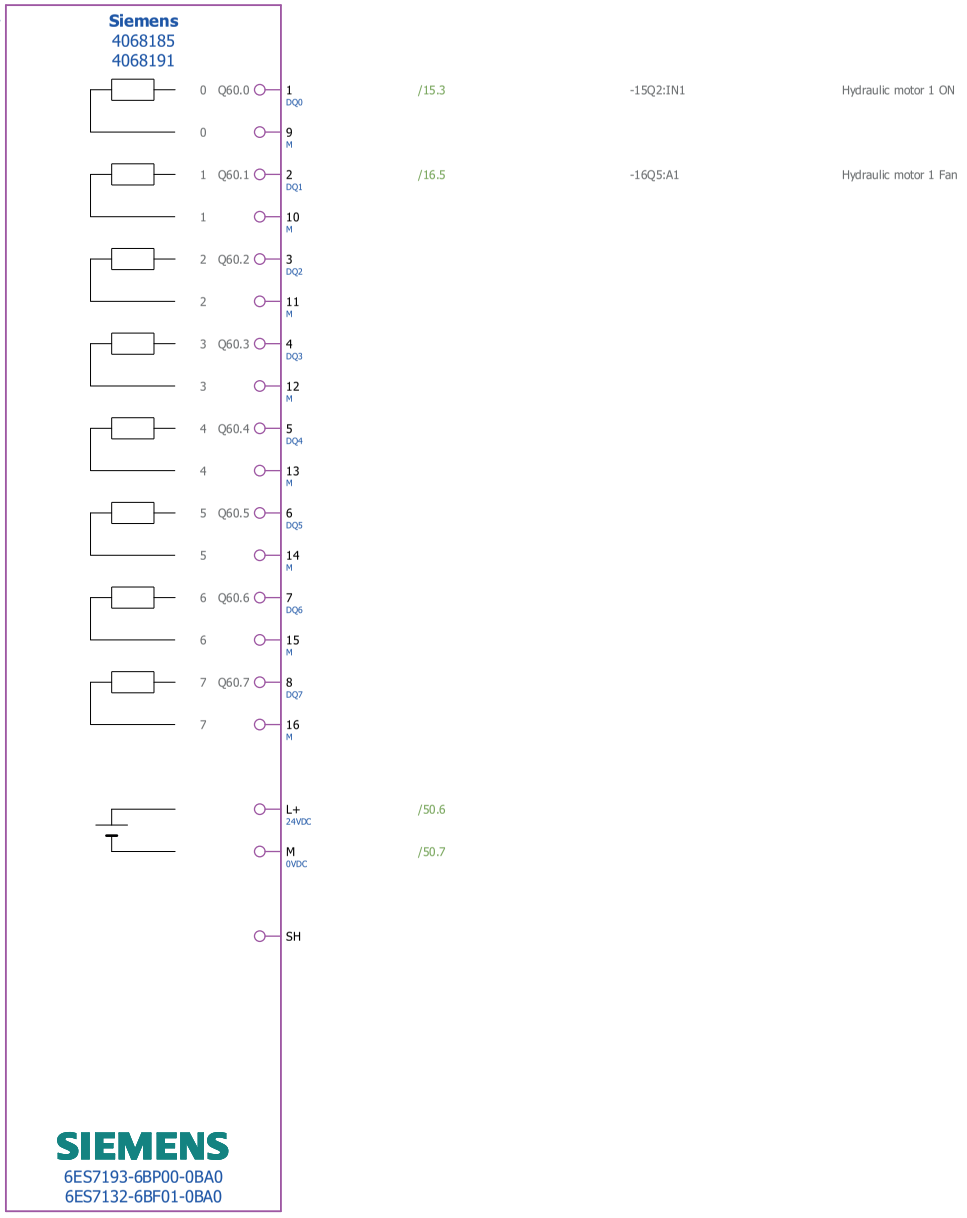
Siemens
4068188
4068193

0		1 DI0	/60.8	-FDI_EM_STOP_1	Emergency stop
0		3 VS0	/60.7	-FDI_EM_STOP_1	Emergency stop
1	I50.0	2 DI1	/60.9	-FDI_EM_STOP_1	Emergency stop
1		4 VS1	/60.8	-FDI_EM_STOP_1	Emergency stop
0		5 DQ-P0	/10.6	-FDO_Versorgung_DO	Failsafe supply digital output
0		6 DQ-M0	/10.6	-FDO_Versorgung_DO	Failsafe supply digital output
		1A AUX			
		2A AUX			
		1L	/50.6		
		1N	/50.6		
		2L	/50.6		
		2N	/50.6		
		SH			

SIEMENS
6ES7193-6BP20-0DC0
6ES7136-6PA00-0BC0

55 57

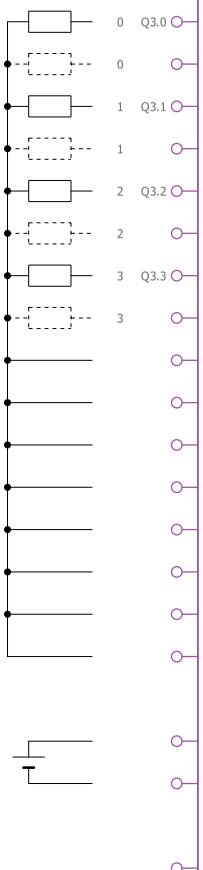
V500	31.01.2024	ASCO	Date	25.11.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: PLC overview	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= P15(i)_P28(i)
			Editor						+ SS01
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130
Modification	Date	Name							Pg 56



V500	31.01.2024	ASCO	Date	25.11.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: PLC overview	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= P15(i)_P28(i)
			Editor						+ SS01
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130
Modification	Date	Name							Pg 57

-50KF53
/50.7

Siemens
4069196
4068191

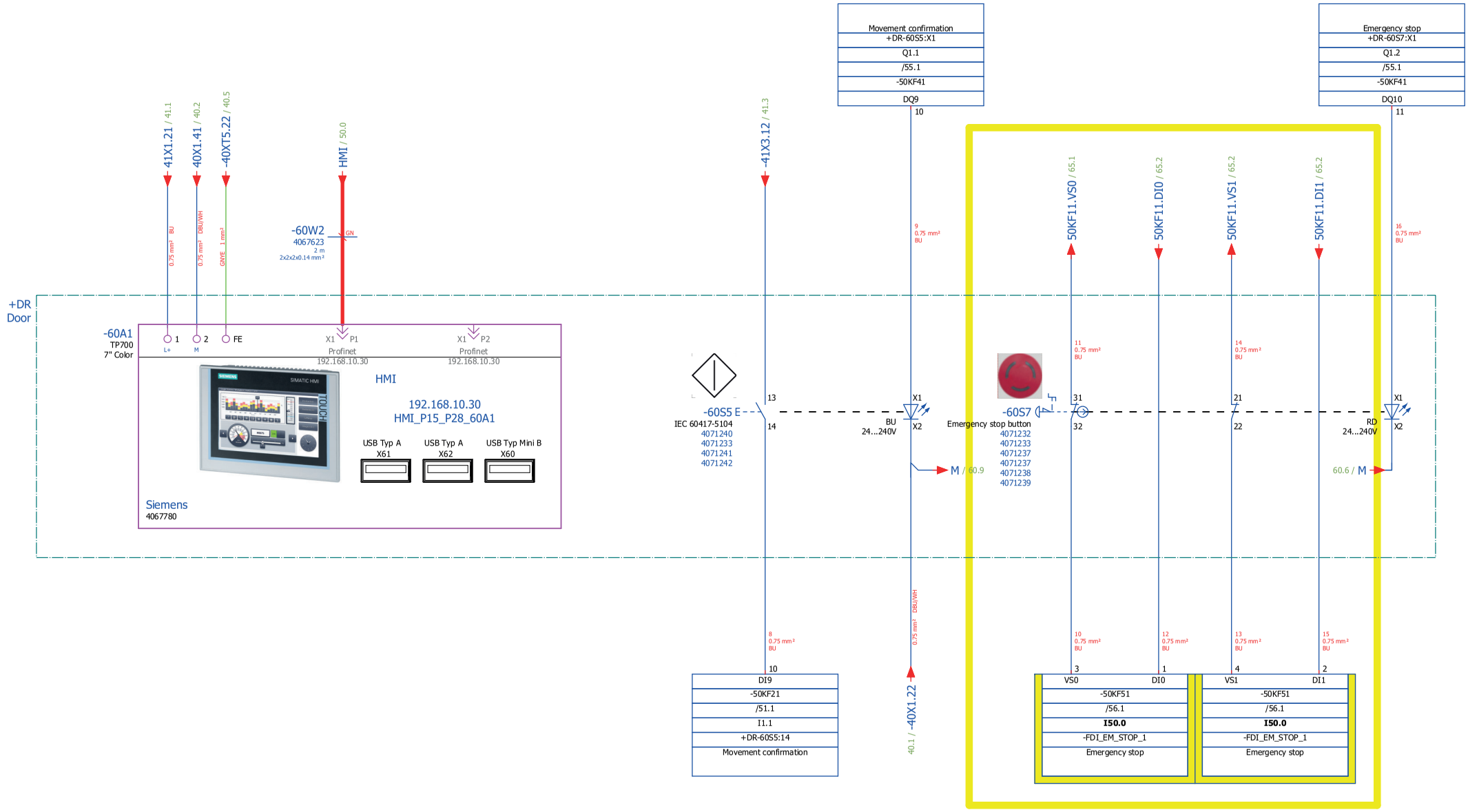


0	Q3.0	1 DQ0	/130.1	+EXT-130X1	Plant part 1 CO2 valve 1
0		5 DQ0			
1	Q3.1	2 DQ1	/130.3	+EXT-130X3	Plant part 1 CO2 valve 2
1		6 DQ1			
2	Q3.2	3 DQ2	/130.6	+EXT-130Y5:A1	Plant part 1 valve forward
2		7 DQ2			
3	Q3.3	4 DQ3	/130.8	+EXT-130Y7:A1	Plant part 1 valve backward
3		8 DQ3			
		9 M	/130.1		Plant part 1 CO2 valve 1
		10 M	/130.3		Plant part 1 CO2 valve 2
		11 M	/130.6		Plant part 1 valve forward
		12 M	/130.8		Plant part 1 valve backward
		13 M			
		14 M			
		15 M			
		16 M			
		L+ 24VDC	/50.7		
		M 0VDC	/50.7		
		SH			

SIEMENS
6ES7193-6BP00-0BA0
6ES7132-6BD20-0BA0

57 60

V500	31.01.2024	ASCO	Date	25.11.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: PLC overview	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= P15(i)_P28(i)
			Editor						+ SS01
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130
Modification	Date	Name							Pg 58



human machine interface (HMI)

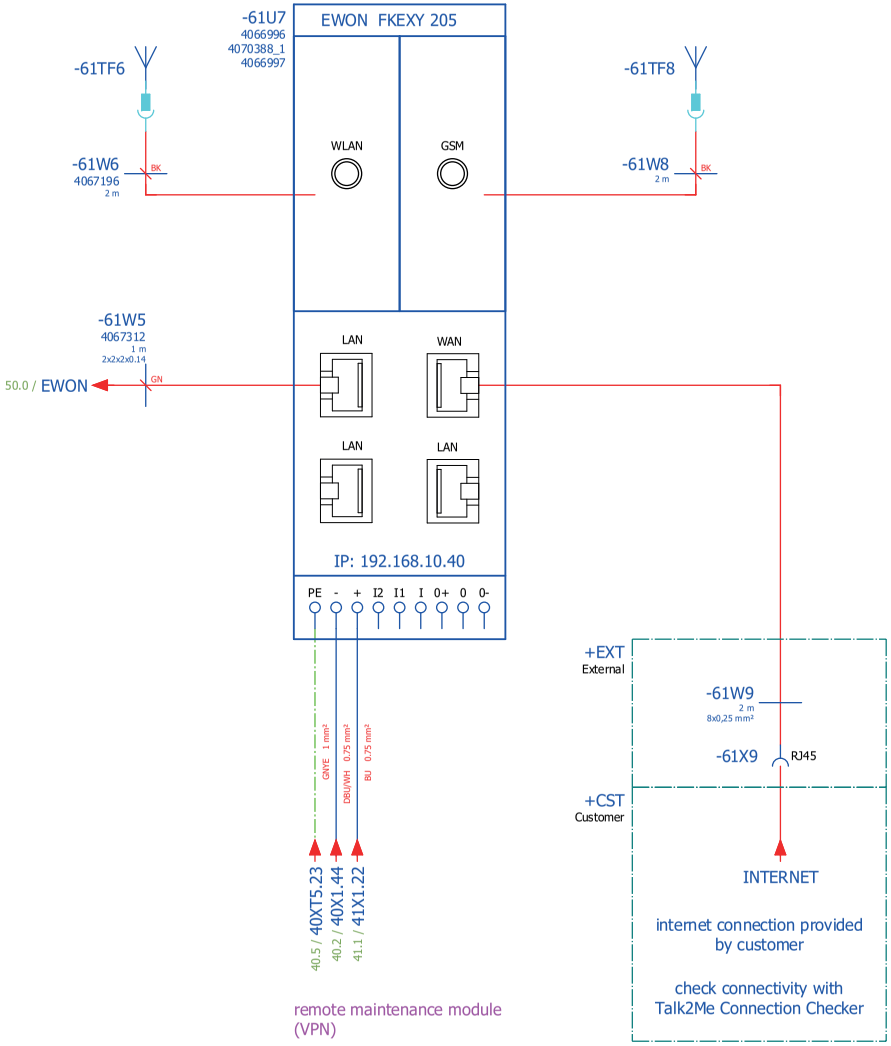
Movement confirmation

Emergency stop

58

61

V500	31.01.2024	ASCO	Date	15.01.2025	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Operation / control panel	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= P15(i)_P28(i)
			Editor						+ SS01
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130
Modification	Date	Name							Pg 60



60

63

V500	31.01.2024	ASCO	Date	25.11.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Remote maintenance module	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= P15(i)_P28(i)
			Editor						+ SS01
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130
Modification	Date	Name							Pg 61

Signal tower blue	Signal tower green	Signal tower yellow	Signal tower red	Signal tower Buzzer
+EXT-63X1:1	+EXT-63X1:2	+EXT-63X1:3	+EXT-63X1:4	+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
12	13	14	15	16

-40X1.64 / 40.2

-63W2.1
PVC
1 m
8x0,25 mm²
4071269

WH 0,25 | BN 0,25 | GN 0,25 | YE 0,25 | GY 0,25 | PK 0,25 | BU 0,25 | RD 0,25

-63X2
Signal tower

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

+EXT

-63W2.2
PUR
0.6 m
8x0,25 mm²
4071270

WH 0,25 | BN 0,25 | GN 0,25 | YE 0,25 | GY 0,25 | PK 0,25 | BU 0,25 | RD 0,25

-63X1
400mm
4071263

GND 0 | Modul 1 1 | Modul 2 2 | Modul 3 3 | Modul 4 4 | Modul 6 5

-63P2
BU
24VAC/DC
4071264

-63P3
GN
24VAC/DC
4071265

-63P4
YE
24VAC/DC
4071266

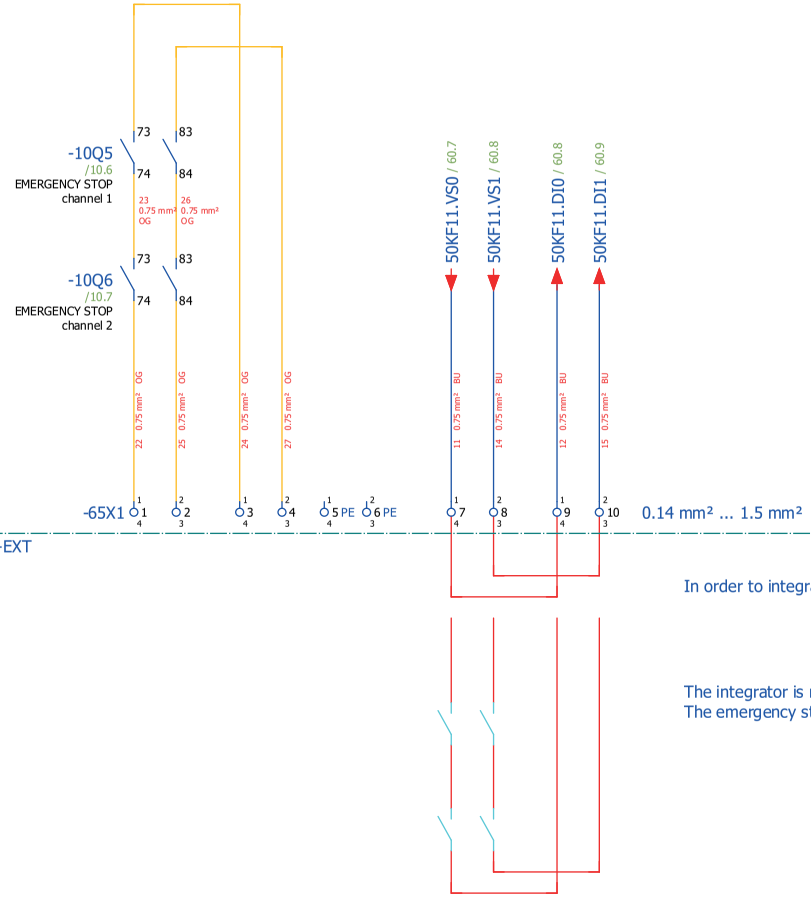
-63P5
RD
24VAC/DC
4071267

-63P6
BZ
24VAC/DC
4071268

Signal tower blue | Signal tower green | Signal tower yellow | Signal tower red | Signal tower Buzzer

61 65

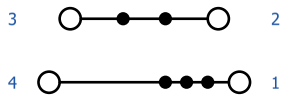
V500	31.01.2024	ASCO	Date	23.01.2025	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Signal tower	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= P15(i)_P28(i)
			Editor						+ SS01
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130
Modification	Date	Name							Pg 63



+EXT

In order to integrate an external emergency stop, the bridges must be removed.

The integrator is responsible for integrating an external emergency stop or for integrating the machine into an external emergency stop.
The emergency stop strategy and all associated standards must be observed in all cases. Integration may only be carried out by qualified personnel

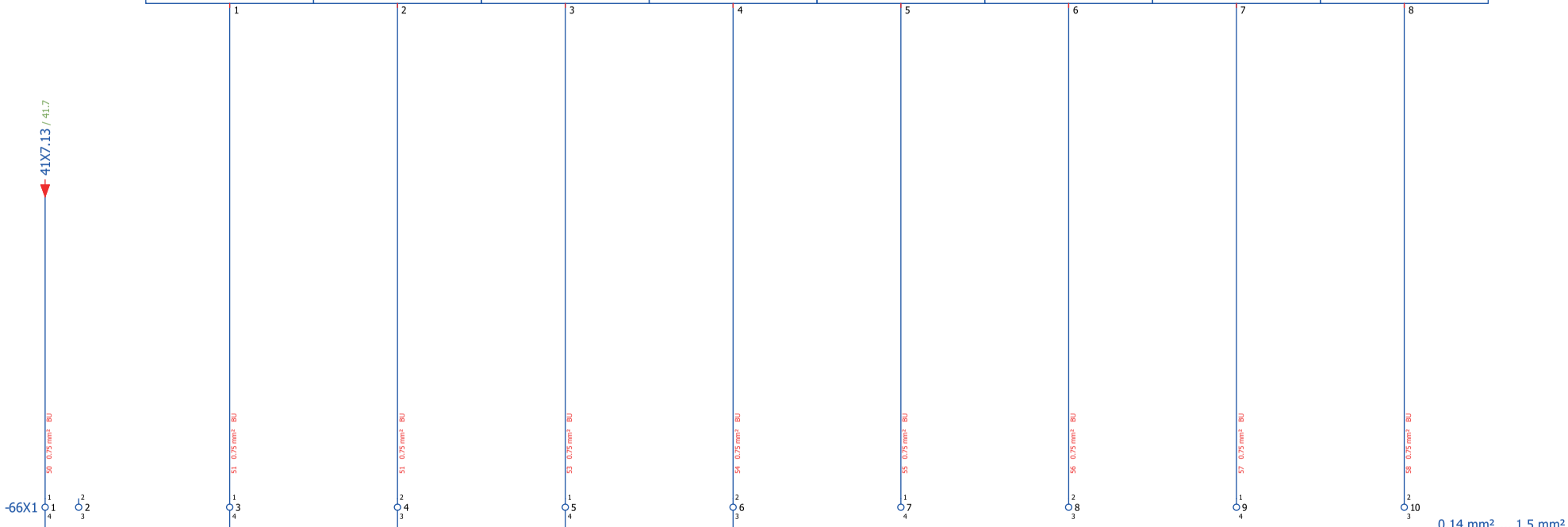


OPTIONAL

V500	31.01.2024	ASCO	Date	17.01.2025	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Interface 1 Emergency stop	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= P15(i)_P28(i)
			Editor						+ SS01
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130
Modification	Date	Name							Pg 65

0	1	2	3	4	5	6	7	8	9

	Interface 1 External Start / Stop (1 = start) (0 = Stop after end of cycle)	Interface 1 Drain Machine (1 = drain)	Interface 1 next batch (1 = next)	Interface 1 additional start condition (1 = approval)	Spare	Spare	Spare	Spare
					-66X1:7	-66X1:8	-66X1:9	-66X1:10
	I2.0	**I2.1**	**I2.2**	**I2.3**	**I2.4**	**I2.5**	**I2.6**	**I2.7**
	/52.1	/52.1	/52.1	/52.1	/52.1	/52.1	/52.1	/52.1
	-50KF22	-50KF22	-50KF22	-50KF22	-50KF22	-50KF22	-50KF22	-50KF22
	DI0	DI1	DI2	DI3	DI4	DI5	DI6	DI7



+EXT

=R70i
Reformer R70i

Interface 1
External Start / Stop
(1 = start)
(0 = Stop after end of cycle)

Interface 1
Drain Machine
(1 = drain)

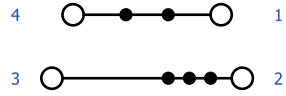
Interface 1
next batch
(1 = next)

Interface 1
additional start condition
(1 = approval)

Spare

Spare

OPTIONAL



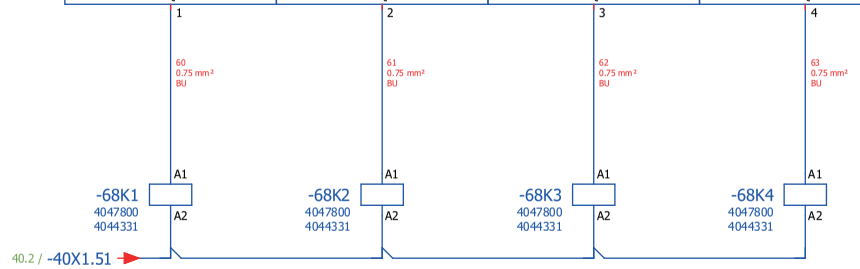
65

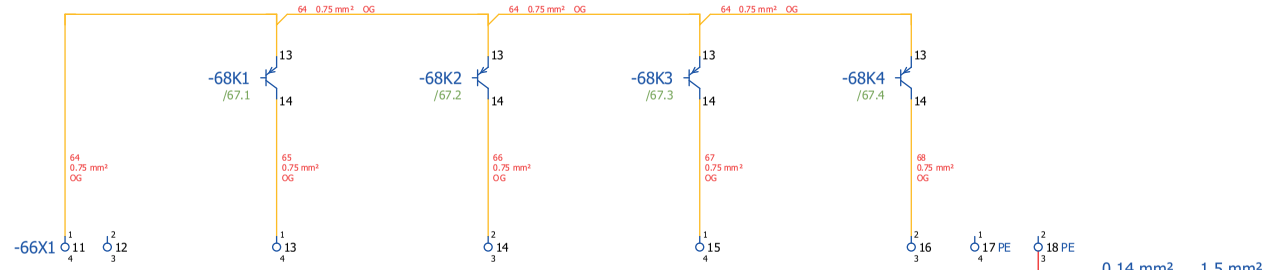
67

V500	31.01.2024	ASCO	Date	17.01.2025	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Interface 1 digital inputs	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= P15(i)_P28(i)
			Editor						+ SS01
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130
Modification	Date	Name							Pg 66

0	1	2	3	4	5	6	7	8	9

Interface 1 Machine ready (1 = ready)	Interface 1 Machine active (1 = active)	Interface 1 Batch completed (1 = completed)	Interface 1 Machine drained (1 = empty)
-68K1:A1	-68K2:A1	-68K3:A1	-68K4:A1
Q0.0	**Q0.1**	**Q0.2**	**Q0.3**
/55.1	/55.1	/55.1	/55.1
-50KF41	-50KF41	-50KF41	-50KF41
DQ0	DQ1	DQ2	DQ3





0.14 mm² ... 1.5 mm²

+EXT

=R70i
Reformer R70i

/ =R70i-60W1.3.SH

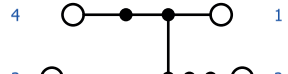
Interface 1
Machine ready
(1 = ready)

Interface 1
Machine active
(1 = active)

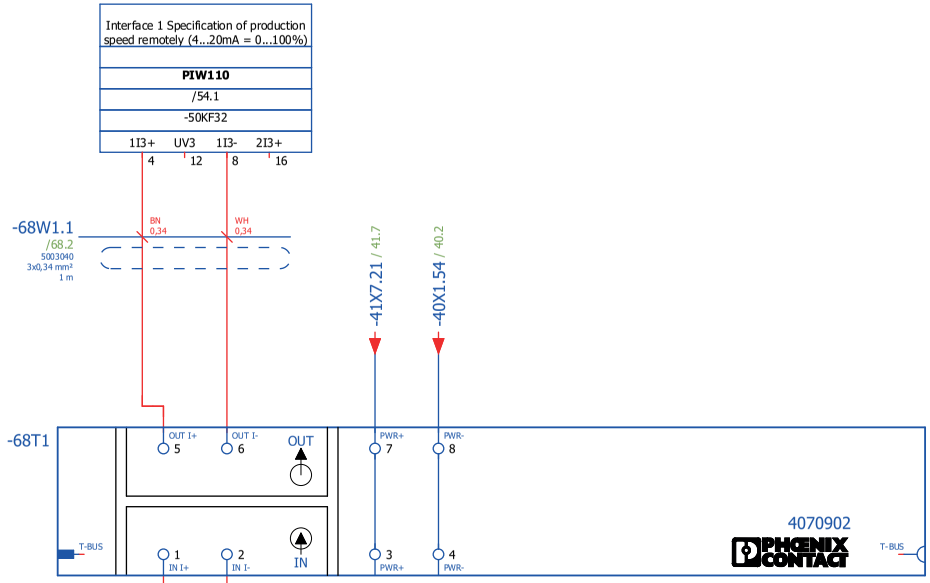
Interface 1
Batch completed
(1 = completed)

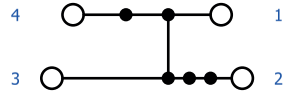
Interface 1
Machine drained
(1 = empty)

OPTIONAL

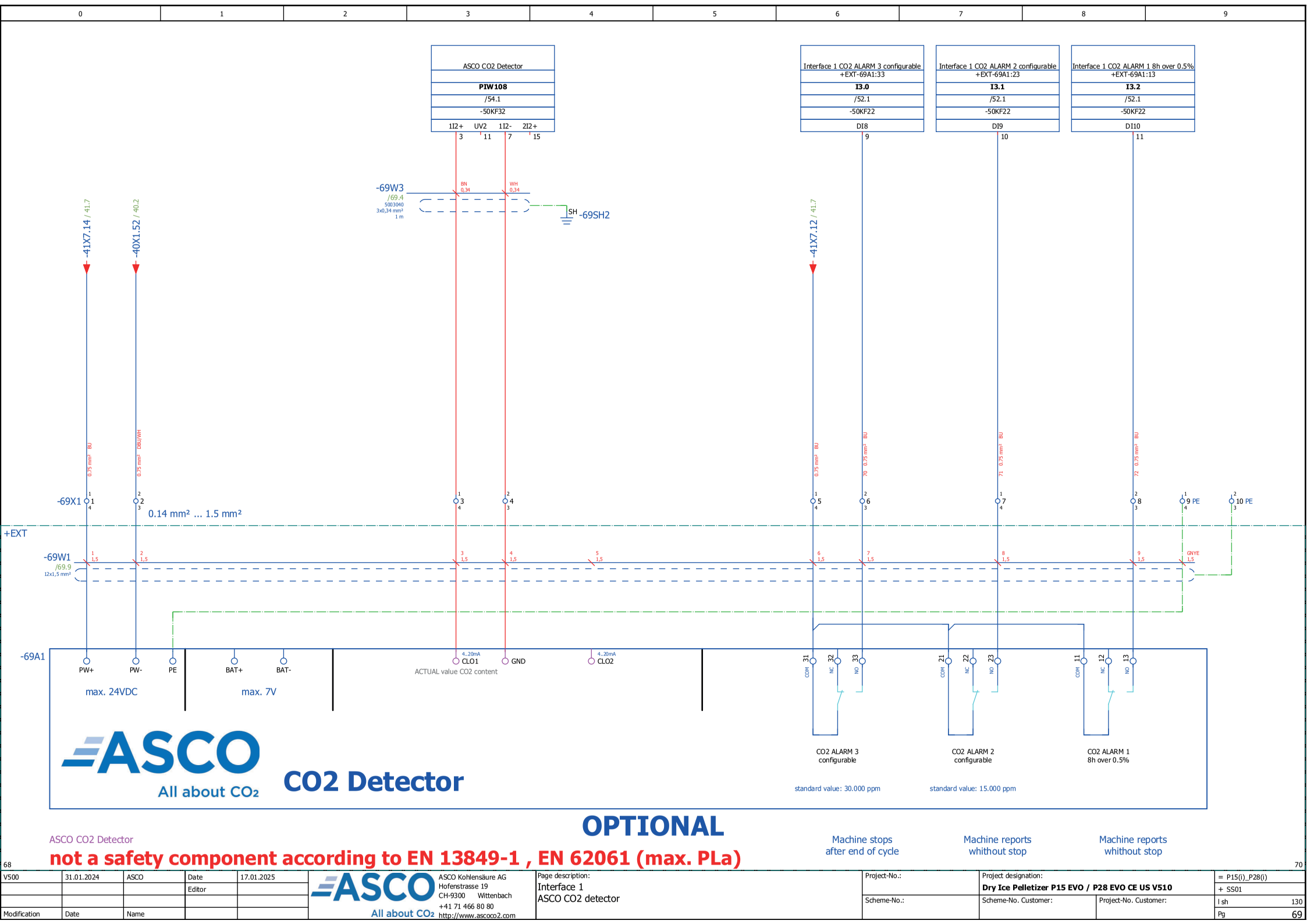


V500	31.01.2024	ASCO	Date	17.01.2025	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Interface 1 digital outputs	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= P15(i)_P28(i)
			Editor						+ SS01
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130
Modification	Date	Name							Pg 67





V500	31.01.2024	ASCO	Date	17.01.2025	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Interface 1 analog inputs	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= P15(i)_P28(i)
			Editor						+ SS01
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130
Modification	Date	Name							Pg 68



V500	31.01.2024	ASCO	Date	17.01.2025	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Interface 1 ASCO CO2 detector	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= P15(i)_P28(i)
			Editor						+ SS01
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130
Modification	Date	Name							Pg 69

Interface 1 Start the conveyor belt (1 = start, 0 = stop)
-70K1:A1
Q1.0
/55.1
-50KF41
DQ8

Interface 1 conveyor belt (1 = active, 0 = stopped)
+CVB-20K1:31
I3.7
/52.1
-50KF22
DI15

9 — 82 0.75 mm² BU — A1 -70K1 4047800 4044331 A2 — 40.2 / -40X1.53

16 — -41X7.24 / 41.7

-70K1 /70.1 — 13 / 14

80 0.75 mm² OG — 81 0.75 mm² OG

0.75 mm² BU — 83 0.75 mm² BU

-70X1 1 4 / 2 3 — 0.14 mm² ... 1.5 mm² — 3 4 / 4 3 — 5 PE 4 / 6 PE 3

+EXT

conveyor belt
+CVB

-20X2 1 2 3 — 4 — 5

-20W2 LiYY 4x18 AWG — BU 0.34 — BN 0.34

-20B2

-20W2 — BK 0.34

-20K1 Start

6 — 7 — 17 — 13 — 20Q5 — 14 — 18 — 13 — 20Q6 — 14 — 19

8 — 9 — 20 — 31 — -20K1 Pelletizer Info Run No Delay — 34 — 21

PE

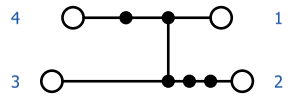
For detailed information, please refer to the electrical documentation of the conveyor belt

Interface 1
Start the conveyor belt
(1 = start, 0 = stop)

Interface 1
Conveyor belt active
(1 = active)
for Reformer

Interface 1
conveyor belt
(1 = active, 0 = stopped)

OPTIONAL



69 110

V500	31.01.2024	ASCO	Date	17.01.2025	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 V510**	= P15(i)_P28(i)
			Editor						+ SS01
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130
Modification	Date	Name							Pg 70

Plant part 1 oil level
+EXT-110B1:3
I1.5
/51.1
-50KF21
DI13
14

Spare	Spare
I1.6	**I1.7**
/51.1	/51.1
-50KF21	-50KF21
DI14	DI15
15	16

41X3.31 / 41.3

0.75 mm² BU

110 0.75 mm² BU

-110X1 1 2 3 4 5 PE 6 PE

+EXT

-110W1
4x0,5 mm²
2 m

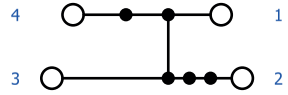
1 0,5 | 2 0,5 | 3 0,5 | GNYE 0,5

-110B1
+ L1 NC
1 2 3 PE
L1

Plant part 1
oil level

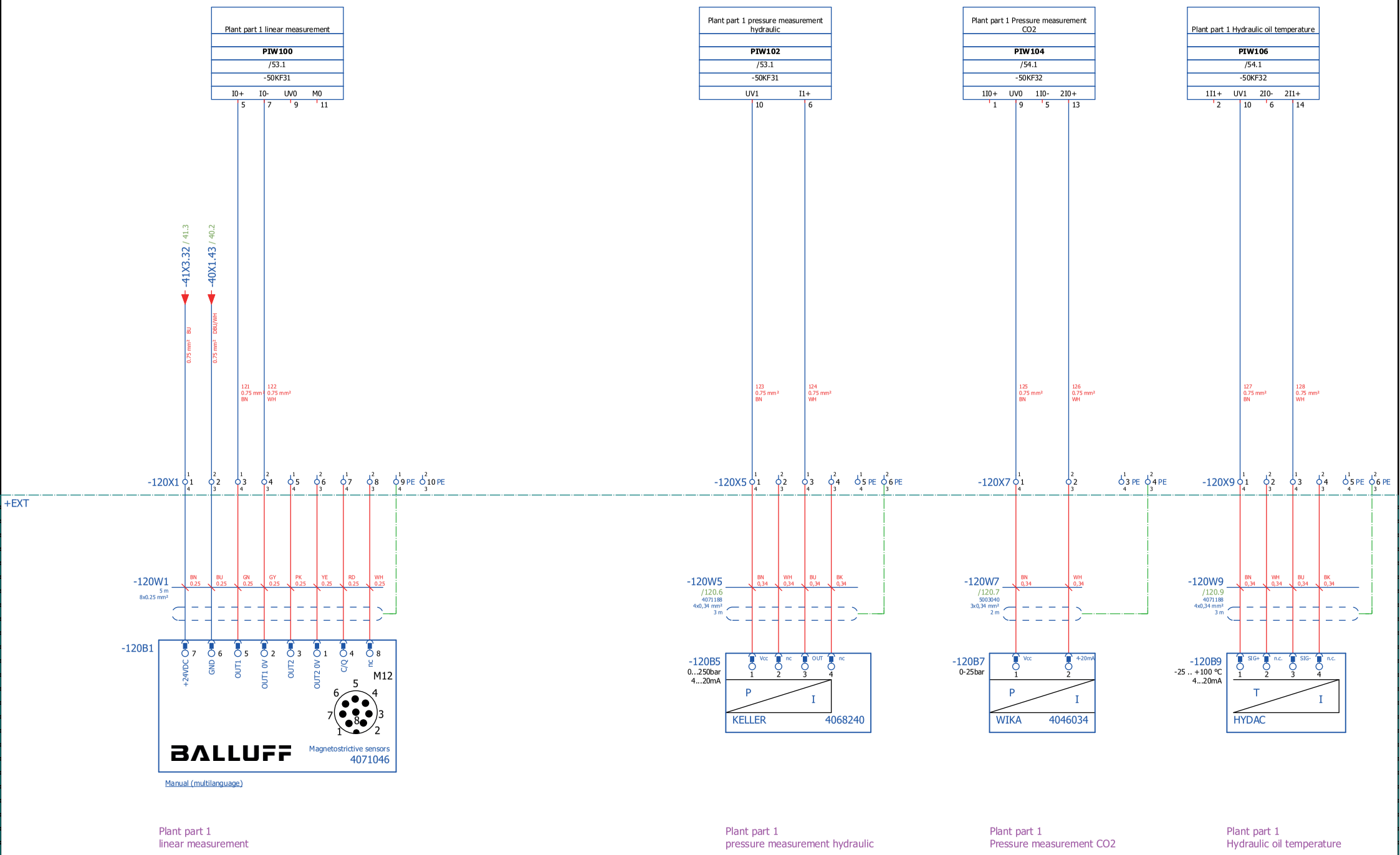
Spare

Spare



70 120

V500	31.01.2024	ASCO	Date	25.11.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Plant part 1 Sensors	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= P15(i)_P28(i) + SS01
			Editor						l sh 130
Modification	Date	Name					Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	Pg 110



Plant part 1
linear measurement

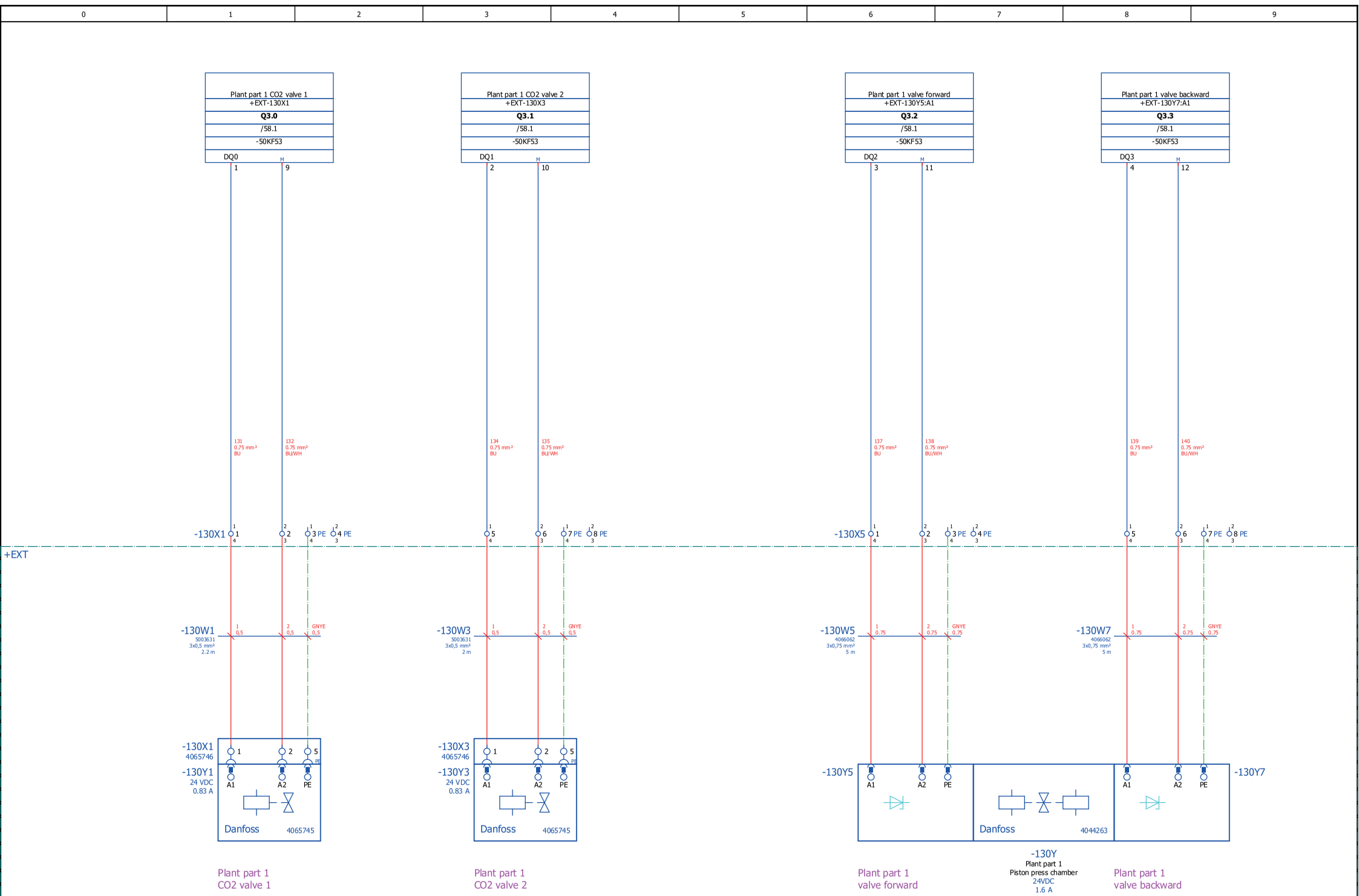
Plant part 1
pressure measurement hydraulic

Plant part 1
Pressure measurement CO2

Plant part 1
Hydraulic oil temperature

110 130

V500	31.01.2024	ASCO	Date	25.11.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Plant part 1 sensors analog	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= P15(i)_P28(i) + SS01
			Editor				Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 130
Modification	Date	Name							Pg 120



120

=AUS01/1

V500	31.01.2024	ASCO	Date	25.11.2024
			Editor	
Modification	Date	Name		

ASCO Kohlensäure AG
Hofenstrasse 19
CH-9300 Wittenbach
+41 71 466 80 80
http://www.ascoco2.com
All about CO₂

Page description:
Plant part 1 Valves

Project-No.:

Scheme-No.:

Project designation:
Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510

Scheme-No. Customer:

Project-No. Customer:

= P15(i)_P28(i)
+ SS01
l sh 130
Pg 130

Parts list

Plant	Mounting location	Device	Quantity	Designation	Manufacturer	Part number	Page	Remarks
=P15(i)_P28(i)	+SS01	-6U0	0				6;6.1...6.3	
=P15(i)_P28(i)	+SS01	-10Q5	1	CONTACTOR,AC3:7,5KW 1NO+1NC DC24V	Siemens	4070901	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	4070901	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	2	Ground terminal block	Phoenix Contact	5003671	10	
=P15(i)_P28(i)	+SS01	-10XD3	1	Verdrahtungsbaustein unten für Schützkombination Baugröße S0	Siemens		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 SOFT STARTER, SIZE S00,38A, 18,5KW/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 1NO DC24V	Siemens	4070900	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		16	
=P15(i)_P28(i)	+SS01	-40G1	1	Stromversorgung, 3-phasig	Luetze	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	1	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	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	-50KF22	1	SIMATIC ET 200SP DI 16x 24V DC ST, PU 1	Siemens	4070341	50	
=P15(i)_P28(i)	+SS01	-50KF22	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 4x24 V DC/2 A ST	Siemens	4069196	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	-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	-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	-68K1	1	Solid State Relay type, 1 NO, 2A, 240VAC	Finder	4047800	67	
=P15(i)_P28(i)	+SS01	-68K1	1	Socket, 12...24VDC, 1 Pole 6A, screw terminal	Finder	4044331	67	
=P15(i)_P28(i)	+SS01	-68K2	1	Solid State Relay type, 1 NO, 2A, 240VAC	Finder	4047800	67	
=P15(i)_P28(i)	+SS01	-68K2	1	Socket, 12...24VDC, 1 Pole 6A, screw terminal	Finder	4044331	67	
=P15(i)_P28(i)	+SS01	-68K3	1	Solid State Relay type, 1 NO, 2A, 240VAC	Finder	4047800	67	
=P15(i)_P28(i)	+SS01	-68K3	1	Socket, 12...24VDC, 1 Pole 6A, screw terminal	Finder	4044331	67	
=P15(i)_P28(i)	+SS01	-68K4	1	Solid State Relay type, 1 NO, 2A, 240VAC	Finder	4047800	67	
=P15(i)_P28(i)	+SS01	-68K4	1	Socket, 12...24VDC, 1 Pole 6A, screw terminal	Finder	4044331	67	
=P15(i)_P28(i)	+SS01	-68T1	1	Signal conditioner	Phoenix Contact	4070902	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	

Parts list

Plant	Mounting location	Device	Quantity	Designation	Manufacturer	Part number	Page	Remarks
=P15(i)_P28(i)	+SS01	-69SH2	1	Shield connection terminal	Weidmueller	4047811	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	Solid State Relay type, 1 NO, 2A, 240VAC	Finder	4047800	70	
=P15(i)_P28(i)	+SS01	-70K1	1	Socket, 12...24VDC, 1 Pole 6A, screw terminal	Finder	4044331	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	
=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		

Parts list

Plant	Mounting location	Device	Quantity	Designation	Manufacturer	Part number	Page	Remarks
=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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			Editor						+ SS01
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 1.5
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Summarized parts list

ASCO_F02_006

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			
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			
4047800	5	Solid State Relay type, 1 NO, 2A, 240VAC			
4044331	5	Socket, 12...24VDC, 1 Pole 6A, screw terminal			
4068180	1	CPU 1512SP F-1 PN, 600KB Prog., 2MB Data SIMATIC ET 200SP Central processing unit			

Summarized parts list

ASCO_F02_006

Order number	Quantity	Designation	Type number	Manufacturer	Image
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			
4068193	1	SIMATIC ET 200SP BU type C0 BU20-P6+A2+4D PU 1 BaseUnit			

Summarized parts list

ASCO_F02_006

Order number	Quantity	Designation	Type number	Manufacturer	Image
4068185	1	SIMATIC ET 200SP DQ 8x24VDC/0.5A ST Digital module output			
4069196	1	SIMATIC ET 200SP DQ 4x24 V DC/2 A ST Digital module output			
4070901	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			
4070899	1	SIRIUS SOFT STARTER, SIZE S00,38A, 18,5KW/400V, 40GRAD, AC 200-480V, AC/DC 24V SIRIUS soft starters for standard applications			

Summarized parts list

ASCO_F02_006

Order number	Quantity	Designation	Type number	Manufacturer	Image
4071000	1	CIRCUIT-BREAKER SCREW CONNECTION 0.32A SIRIUS Circuit breaker			
4070900	1	CONTACTOR,AC3:3KW 1NO DC24V SIRIUS 3RT2 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			
4066996	2	Fernwartungsmodul			

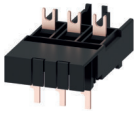
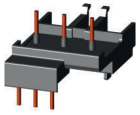
Summarized parts list

ASCO_F02_006

Order number	Quantity	Designation	Type number	Manufacturer	Image
4070388_1	1	GSM Modul für Fernwartung 4G EU			
4066997	1	WLAN module for remote maintenance			
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			

Summarized parts list

ASCO_F02_006

Order number	Quantity	Designation	Type number	Manufacturer	Image
4067867	18	End and partition plate for terminal block End cover			
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			
	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			
	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			

Summarized parts list

ASCO_F02_006

Order number	Quantity	Designation	Type number	Manufacturer	Image
4070910	1	End and partition plate for terminal block End cover			
4070911	1	Disconnect and test disconnect rail-mount terminal block Knife-disconnect terminal block			

Summarized parts list

ASCO_F02_006

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			
4071240	1	ILLUMINATED PUSHBUTTON, BLUE SIRIUS ACT CIN20240911110240188284			
4071233	2	HOLDER SIRIUS ACT Holders Holder			
4071241	1	CONTACT MODULE 1NO SIRIUS ACT Contact module Contact module			

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			Editor						+ DR
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 1.1
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Summarized parts list

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Order number	Quantity	Designation	Type number	Manufacturer	Image
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			

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			Editor						+ DR
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 1.1
Modification	Date	Name							Pg 1.1

Summarized parts list

ASCO_F02_006

Order number	Quantity	Designation	Type number	Manufacturer	Image
	0				
	1	Niveausensor			
4071046	1	Magnetostrictive sensors			
4068240	1	Piezoresistive Pressure Transmitters, 8...32VDC, 4...20mA M12x1			
4046034	1	Pressure transducer 0...100 bar , 4...20 mA			
	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			
4071263	1	ECO40 pipe base M20 400mm			

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			Editor						+ EXT
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 1.1
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Summarized parts list

ASCO_F02_006

Order number	Quantity	Designation	Type number	Manufacturer	Image
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			
4065746	2	Klemmdose Magnetventil IP67 , für Spule 18F			
4044263	1	Directional Valve 24VDC 38W			
4065745	2	Magnetventil 24V 20W			

=AUS03+/1

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			Editor						+ EXT
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 1.1
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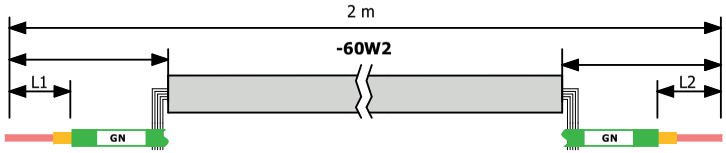
ASCO_F09_004

Cable name =P15(i)_P28(i)+SS01-60W2
Cable type 2x2x2x0.14 mm²
Free conductors 0

human machine interface (HMI)

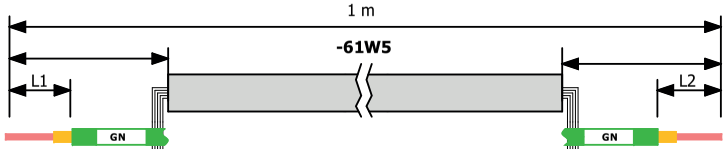


Manufacturer GIGAMEDIA
Order number 4067623

Mounting location:	Source	Function text source	Stopper	L1 [mm]	Part number
Control cabinet	-50A2:X1P1 R				

Part number	L2 [mm]	Stopper	Function text target	Target	Mounting location:
				+DR-60A1:X1P1	Door

Cable name =P15(i)_P28(i)+SS01-61W5
Cable type 2x2x2x0.14 mm²
Free conductors 0

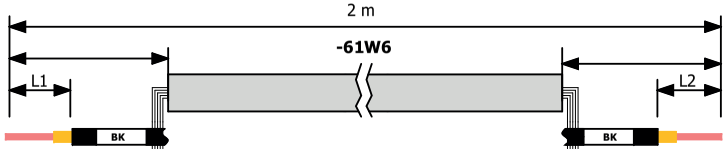


Manufacturer GIGAMEDIA
Order number 4067312

Mounting location:	Source	Function text source	Stopper	L1 [mm]	Part number
Control cabinet	-50A2:X1P2 R				

Part number	L2 [mm]	Stopper	Function text target	Target	Mounting location:
				-61U7:LAN	Control cabinet

Cable name =P15(i)_P28(i)+SS01-61W6
Cable type
Free conductors 0



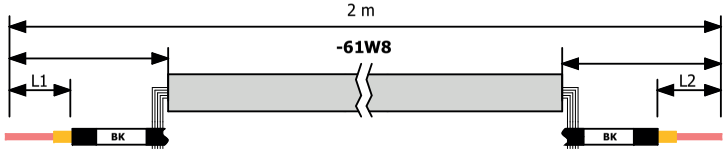
Manufacturer EWON
Order number 4067196

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

Part number	L2 [mm]	Stopper	Function text target	Target	Mounting location:
				-61U7:WLAN	Control cabinet

Cable name =P15(i)_P28(i)+SS01-61W8
Cable type
Free conductors 0

remote maintenance module (VPN)



Manufacturer EWON
Order number

Mounting location:	Source	Function text source	Stopper	L1 [mm]	Part number
		remote maintenance module (VPN)			

Part number	L2 [mm]	Stopper	Function text target	Target	Mounting location:
			remote maintenance module (VPN)	-61U7:GSM	Control cabinet

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			Editor						+
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 1.6
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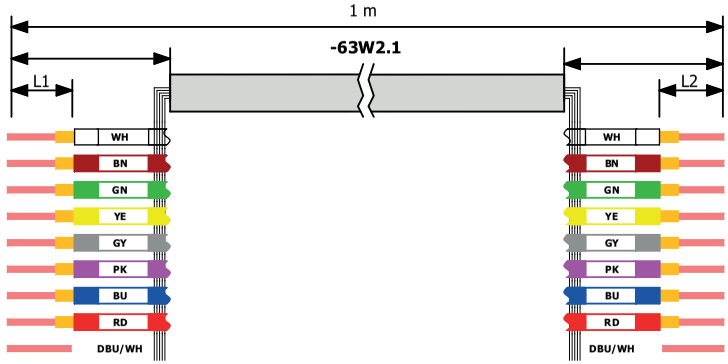
ASCO_F09_004

Cable name =P15(i)_P28(i)+SS01-63W2.1
Cable type 8x0,25 mm²
Free conductors 3

Manufacturer Murrelektronik
Order number 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			



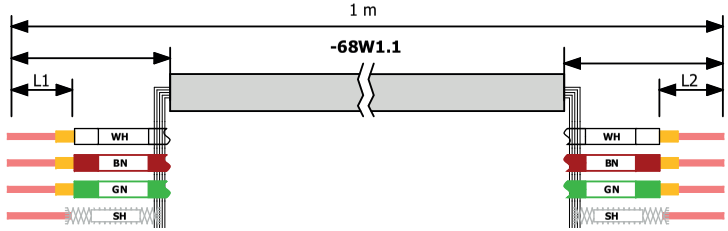
Part number	L2 [mm]	Stopper	Function text target	Target	Mounting location:
			Signal tower blue	-63X2:2	Control cabinet
			Signal tower green	-63X2:3	Control cabinet
			Signal tower yellow	-63X2:4	Control cabinet
			Signal tower red	-63X2:5	Control cabinet
			Signal tower Buzzer	-63X2:6	Control cabinet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

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

Cable name =P15(i)_P28(i)+SS01-68W1.1
Cable type 3x0,34 mm²
Free conductors 1

Manufacturer Luetze
Order number 5003040

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



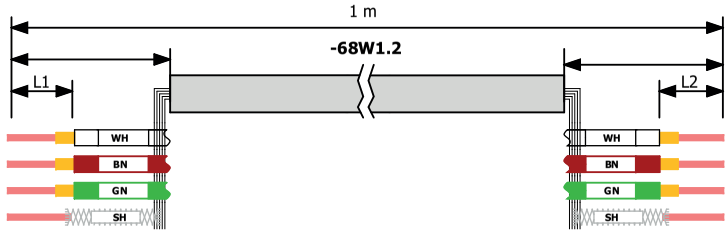
Part number	L2 [mm]	Stopper	Function text target	Target	Mounting location:
			Interface 1 Specification of production	-68T1:6	Control cabinet
			=	-68T1:5	Control cabinet

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

Cable name =P15(i)_P28(i)+SS01-68W1.2
Cable type 3x0,34 mm²
Free conductors 1

Manufacturer Luetze
Order number 5003040

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	=			



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

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			Editor					+
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer: / l sh 1.6
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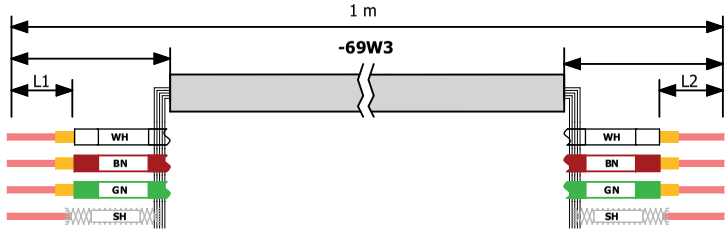
Cable name =P15(i)_P28(i)+SS01-69W3
Cable type 3x0,34 mm²
Free conductors 1

ASCO CO2 Detector

Manufacturer Luetze
Order number 5003040



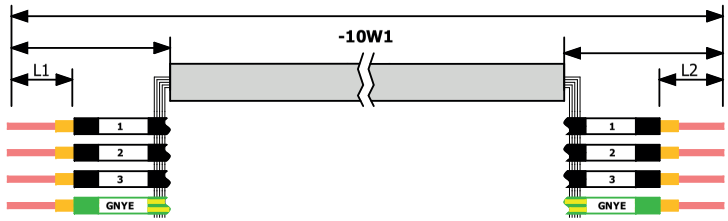
Mounting location:	Source	Function text source	Stopper	L1 [mm]	Part number
Control cabinet	-69X1:4:2	ASCO CO2 Detector			
Control cabinet	-69X1:3:1	=			
Control cabinet	-69SH2:SH	ASCO CO2 Detector			

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

Cable name =P15(i)_P28(i)+EXT-10W1
Cable type 4x10 mm²
Free conductors 0

Power supply

Manufacturer Lapp Group
Order number 4070702



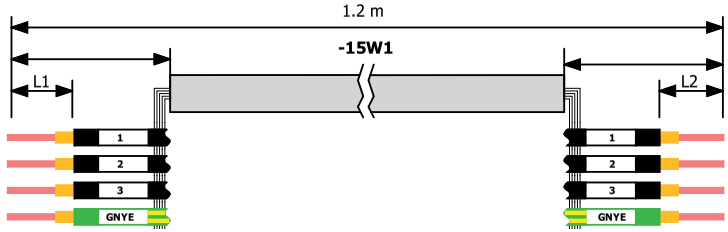
Mounting location:	Source	Function text source	Stopper	L1 [mm]	Part number
Door	+DR-10Q1:2	Main switch			
Door	+DR-10Q1:4	=			
Door	+DR-10Q1:6	=			
Control cabinet	+SS01-10X1:1:4	Power supply			

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

Cable name =P15(i)_P28(i)+EXT-15W1
Cable type 4x2,5 mm²
Free conductors 0

Hydraulic motor 1

Manufacturer Luetze
Order number 5003043



Mounting location:	Source	Function text source	Stopper	L1 [mm]	Part number
Control cabinet	+SS01-15X1:1:5	Hydraulic motor 1			
Control cabinet	+SS01-15X1:2:6	=			
Control cabinet	+SS01-15X1:3:7	=			
Control cabinet	+SS01-15X1:4:1	=			

Part number	L2 [mm]	Stopper	Function text target	Target	Mounting location:
			Hydraulic motor 1	-15M1:V	External
			=	-15M1:U	External
			=	-15M1:W	External
			=	-15M1:PE	External

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			Editor				Scheme-No.:	Scheme-No. Customer: / Project-No. Customer: / l sh 1.6
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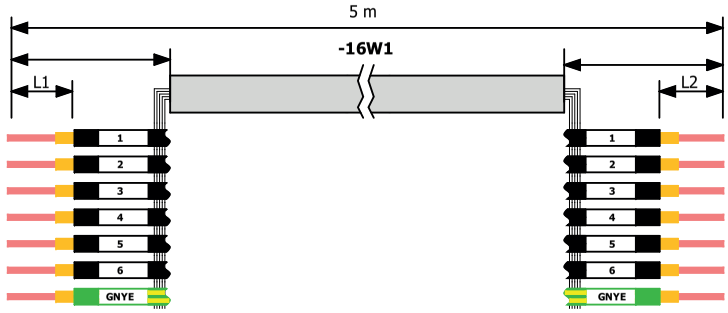
Cable name =P15(i)_P28(i)+EXT-16W1
Cable type 7x2,5 mm²
Free conductors 1

Hydraulic motor 1 Fan

Manufacturer Luetze
Order number



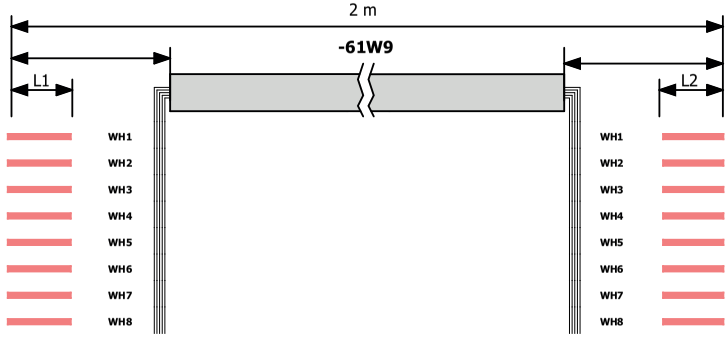
Mounting location:	Source	Function text source	Stopper	L1 [mm]	Part number
Control cabinet	+SS01-16X1:1:5	Hydraulic motor 1 Fan			
Control cabinet	+SS01-16X1:2:6	=			
Control cabinet	+SS01-16X1:3:7	=			
Control cabinet	+SS01-16X1:5:4	Hydraulic motor 1 Fan			
Control cabinet	+SS01-16X1:6:3	=			
Control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

Cable name =P15(i)_P28(i)+EXT-61W9
Cable type 8x0,25 mm²
Free conductors 8

remote maintenance module (VPN)

Manufacturer
Order number

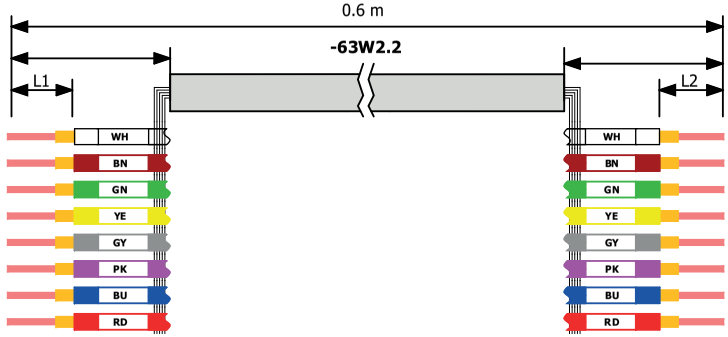


Mounting location:	Source	Function text source	Stopper	L1 [mm]	Part number

Part number	L2 [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 [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			

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

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			Editor	
Modification	Date	Name		

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: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**
Scheme-No. Customer:
Project-No. Customer:

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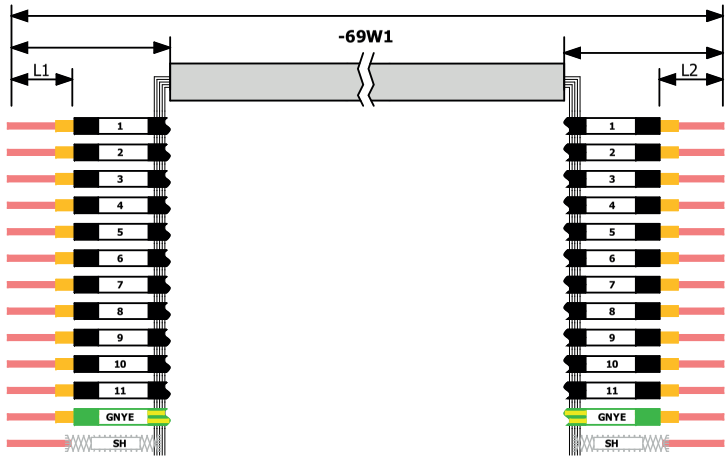
Cable name =P15(i)_P28(i)+EXT-69W1
Cable type 12x1,5 mm²
Free conductors 3

ASCO CO2 Detector

Manufacturer Luetze
Order number

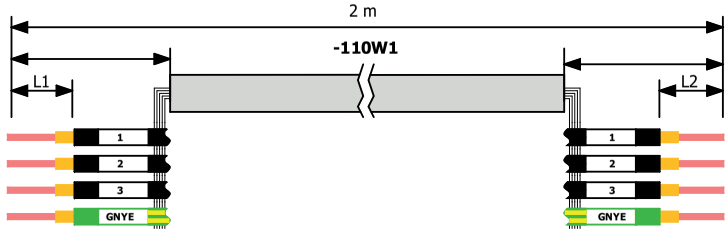


Mounting location:	Source	Function text source	Stopper	L1 [mm]	Part number	Part number	L2 [mm]	Stopper	Function text target	Target	Mounting location:
Control cabinet	+SS01-69X1:1:4	ASCO CO2 Detector							ASCO CO2 Detector	-69A1:PW+	External
Control cabinet	+SS01-69X1:2:3	=							=	-69A1:PW-	External
Control cabinet	+SS01-69X1:3:4	=							=	-69A1:CLO1	External
Control cabinet	+SS01-69X1:4:3	=							=	-69A1:GND	External
Control cabinet	+SS01-69X1:5:4	ASCO CO2 Detector							ASCO CO2 Detector	-69A1:31	External
Control cabinet	+SS01-69X1:6:3	=							=	-69A1:33	External
Control cabinet	+SS01-69X1:7:4	=							=	-69A1:23	External
Control cabinet	+SS01-69X1:8:3	=							=	-69A1:13	External
Control cabinet	+SS01-69X1:9:4	ASCO CO2 Detector							ASCO CO2 Detector	-69A1:PE	External
Control cabinet	+SS01-69X1:10:3	=							=	-69W1:SH	External

Cable name =P15(i)_P28(i)+EXT-110W1
Cable type 4x0,5 mm²
Free conductors 0

Plant part 1 oil level

Manufacturer Lapp Group
Order number

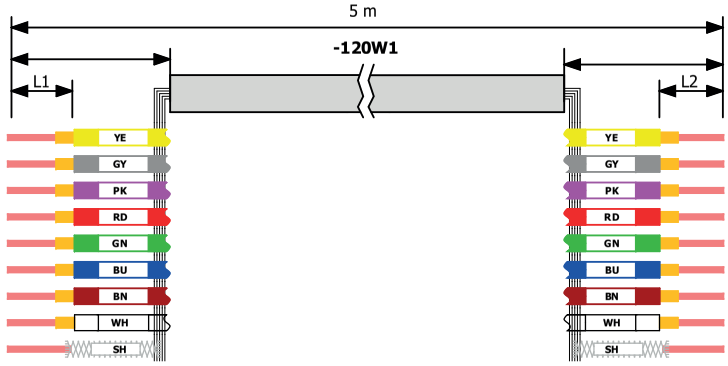


Mounting location:	Source	Function text source	Stopper	L1 [mm]	Part number	Part number	L2 [mm]	Stopper	Function text target	Target	Mounting location:
Control cabinet	+SS01-110X1:1:4	Plant part 1 oil level							Plant part 1 oil level	-110B1:1	External
Control cabinet	+SS01-110X1:2:3	=							=	-110B1:2	External
Control cabinet	+SS01-110X1:3:4	=							=	-110B1:3	External
Control cabinet	+SS01-110X1:5:4	=							=	-110B1:PE	External

Cable name =P15(i)_P28(i)+EXT-120W1
Cable type 8x0.25 mm²
Free conductors 0

Plant part 1 linear measurement

Manufacturer Balluff
Order number



Mounting location:	Source	Function text source	Stopper	L1 [mm]	Part number	Part number	L2 [mm]	Stopper	Function text target	Target	Mounting location:
Control cabinet	+SS01-120X1:6:3	Plant part 1 linear measurement							Plant part 1 linear measurement	-120B1:1	External
Control cabinet	+SS01-120X1:4:3	=							=	-120B1:2	External
Control cabinet	+SS01-120X1:5:4	=							=	-120B1:3	External
Control cabinet	+SS01-120X1:7:4	=							=	-120B1:4	External
Control cabinet	+SS01-120X1:3:4	=							=	-120B1:5	External
Control cabinet	+SS01-120X1:2:3	=							=	-120B1:6	External
Control cabinet	+SS01-120X1:1:4	=							=	-120B1:7	External
Control cabinet	+SS01-120X1:8:3	=							=	-120B1:8	External
Control cabinet	+SS01-120X1:9:4	=							=	-120W1:SH	External

1.3 1.5

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			Editor						+
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 1.6
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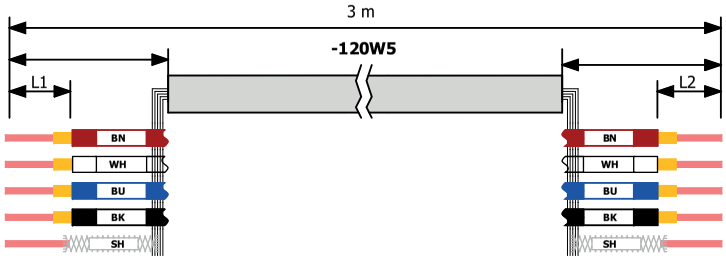
Cable name =P15(i)_P28(i)+EXT-120W5
Cable type 4x0,34 mm²
Free conductors 0

Plant part 1 pressure measurement hydraulic



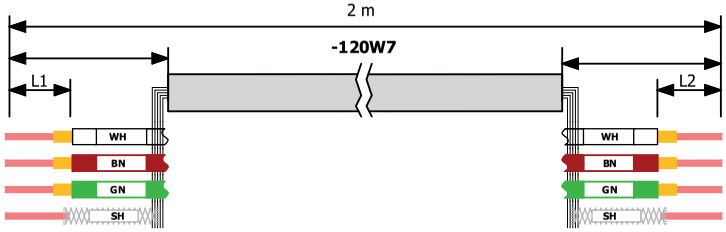
Manufacturer Murrelektronik
Order number 4071188

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	=			

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 3x0,34 mm²
Free conductors 1

Plant part 1 Pressure measurement CO2



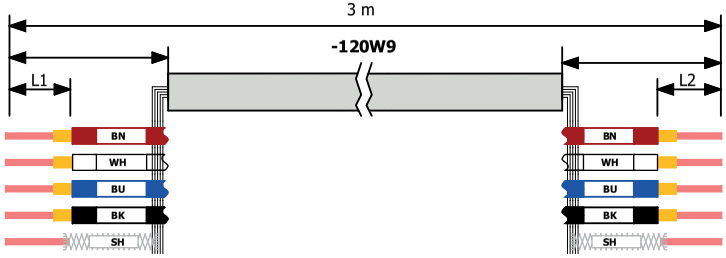
Manufacturer Luetze
Order number 5003040

Mounting location:	Source	Function text source	Stopper	L1 [mm]	Part number
Control cabinet	+SS01-120X7:2:3	Plant part 1 Pressure measurement			
Control cabinet	+SS01-120X7:1:4	=			
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	-120B7:2	External
			=	-120B7:1	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



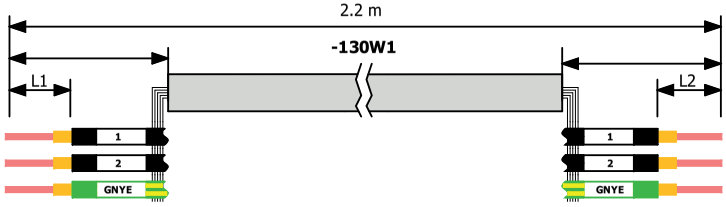
Manufacturer Murrelektronik
Order number 4071188

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	=			

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



Manufacturer Luetze
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	=			

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

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			Editor						+
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 1.6
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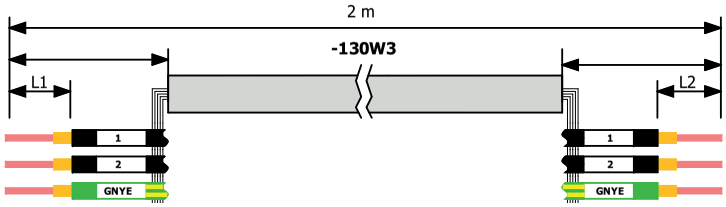
Cable name =P15(i)_P28(i)+EXT-130W3
Cable type 3x0,5 mm²
Free conductors 0

Plant part 1 CO2 valve 2



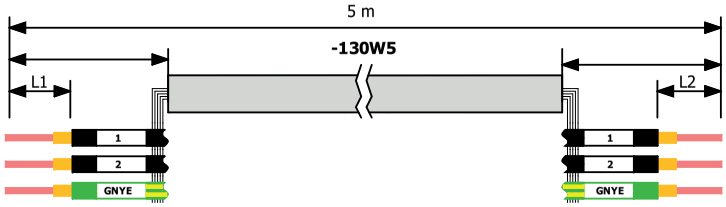
Manufacturer Luetze
Order number 5003631

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 =P15(i)_P28(i)+EXT-130W5
Cable type 3x0,75 mm²
Free conductors 0

Plant part 1 valve forward



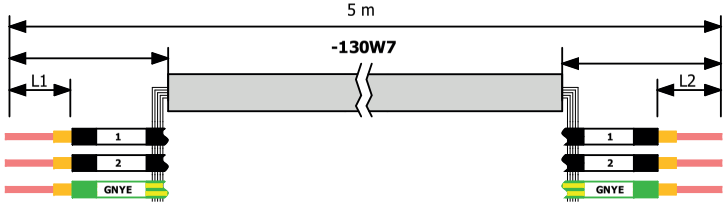
Manufacturer Murrelektronik
Order number 4066062

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 =P15(i)_P28(i)+EXT-130W7
Cable type 3x0,75 mm²
Free conductors 0

Plant part 1 valve backward



Manufacturer Murrelektronik
Order number 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

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			Editor						+
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 1.6
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Cable overview

ASCO_F10_001

Cable name	Source (from)	Target (to)	cable type	all conductors	Conductors used	Cross-section [mm²]	Length [m]	remark	Graphical page of cable diagram
=P15(i)_P28(i)+SS01-60W2	=P15(i)_P28(i)+SS01-50KF11	=P15(i)_P28(i)+DR-60A1	4068180	2x2x2	1	0.14	2		=AUS03/1
	=P15(i)_P28(i)+SS01-50A2		4068181						
=P15(i)_P28(i)+SS01-61W5	=P15(i)_P28(i)+SS01-50A2	=P15(i)_P28(i)+SS01-61U7	4068181	2x2x2	1	0.14	1		=AUS03/1
=P15(i)_P28(i)+SS01-61W6		=P15(i)_P28(i)+SS01-61U7			1		2		=AUS03/1
=P15(i)_P28(i)+SS01-61W8		=P15(i)_P28(i)+SS01-61U7			1		2		=AUS03/1
=P15(i)_P28(i)+SS01-63W2.1	=P15(i)_P28(i)+SS01-40X1	=P15(i)_P28(i)+SS01-63X2	4070909	8	6	0,25	1		=AUS03/1.1
	=P15(i)_P28(i)+SS01-50KF41		4070342						
=P15(i)_P28(i)+SS01-68W1.1	=P15(i)_P28(i)+SS01-50KF32	=P15(i)_P28(i)+SS01-68T1	4070340	3	2	0,34	1		=AUS03/1.1
=P15(i)_P28(i)+SS01-68W1.2	=P15(i)_P28(i)+SS01-68X1	=P15(i)_P28(i)+SS01-68T1	4067865	3	2	0,34	1		=AUS03/1.1
=P15(i)_P28(i)+SS01-69W3	=P15(i)_P28(i)+SS01-69X1	=P15(i)_P28(i)+SS01-50KF32	4067865	3	2	0,34	1		=AUS03/1.2
	=P15(i)_P28(i)+SS01-69SH2		4047811						
=P15(i)_P28(i)+EXT-10W1	=P15(i)_P28(i)+SS01-10X1	PE	5003671	4	4	10		Power supply	=AUS03/1.2
	=P15(i)_P28(i)+DR-10Q1	L1	4063812						
		L2							
		L3							
=P15(i)_P28(i)+EXT-15W1	=P15(i)_P28(i)+SS01-15X1	=P15(i)_P28(i)+EXT-15M1	5003669	4	4	2,5	1.2		=AUS03/1.2
=P15(i)_P28(i)+EXT-16W1	=P15(i)_P28(i)+SS01-16X1	=P15(i)_P28(i)+EXT-16M1	5003669	7	6	2,5	5		=AUS03/1.3
=P15(i)_P28(i)+EXT-61W9				8	0	0,25	2		=AUS03/1.3
=P15(i)_P28(i)+EXT-63W2.2	=P15(i)_P28(i)+SS01-63X2	=P15(i)_P28(i)+EXT-63X1		8	6	0,25	0.6		=AUS03/1.3
=P15(i)_P28(i)+EXT-69W1	=P15(i)_P28(i)+SS01-69X1	=P15(i)_P28(i)+EXT-69A1	4067865	12	9	1,5			=AUS03/1.4
=P15(i)_P28(i)+EXT-110W1	=P15(i)_P28(i)+SS01-110X1	=P15(i)_P28(i)+EXT-110B1	4067865	4	4	0,5	2		=AUS03/1.4
=P15(i)_P28(i)+EXT-120W1	=P15(i)_P28(i)+SS01-120X1	=P15(i)_P28(i)+EXT-120B1	4067865	8	8	0.25	5		=AUS03/1.4
=P15(i)_P28(i)+EXT-120W5	=P15(i)_P28(i)+SS01-120X5	=P15(i)_P28(i)+EXT-120B5	4067865	4	4	0,34	3		=AUS03/1.5
=P15(i)_P28(i)+EXT-120W7	=P15(i)_P28(i)+SS01-120X7	=P15(i)_P28(i)+EXT-120B7	4067865	3	2	0,34	2		=AUS03/1.5
=P15(i)_P28(i)+EXT-120W9	=P15(i)_P28(i)+SS01-120X9	=P15(i)_P28(i)+EXT-120B9	4067865	4	4	0,34	3		=AUS03/1.5
=P15(i)_P28(i)+EXT-130W1	=P15(i)_P28(i)+SS01-130X1	=P15(i)_P28(i)+EXT-130X1	4067865	3	3	0,5	2.2		=AUS03/1.5
=P15(i)_P28(i)+EXT-130W3	=P15(i)_P28(i)+SS01-130X1	=P15(i)_P28(i)+EXT-130X3	4067865	3	3	0,5	2		=AUS03/1.6
=P15(i)_P28(i)+EXT-130W5	=P15(i)_P28(i)+SS01-130X5	=P15(i)_P28(i)+EXT-130Y5	4067865	3	3	0,75	5		=AUS03/1.6
=P15(i)_P28(i)+EXT-130W7	=P15(i)_P28(i)+SS01-130X5	=P15(i)_P28(i)+EXT-130Y7	4067865	3	3	0,75	5		=AUS03/1.6

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			Editor						+
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 1
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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	2	2	0	2	=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	2	1	0	2	=AUS06/21

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Terminal diagram

Terminal strip
=P15(i)_P28(i)+SS01
-10X1
Power supply

function text								+EXT-10W1	Cable name	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	Cable name					Page / column
								ÖLFLEX® 191 4x10 mm²	cable type								cable type					
Power supply								GNYE		PE		4 **1** 1	0	'	+DR-10PE3	PE						/10.1
										+EXT-10PE1	PE	2										
Power supply										+EXT-15M1	PE	4 **2**	0	'								/10.1
										+EXT-15M1	PE	3										

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			Editor						+
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Terminal diagram

Terminal strip
=P15(i)_P28(i)+SS01
-15X1
Hydraulic motor 1

function text	+EXT-15W1	Cable name	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	cable type	Cable name	Page / column
	LÜTZE SILFLEX® N PVC MULTINORM 4x2,5 mm²	cable type										
Hydraulic motor 1	1		+EXT-15M1	V	5 **1** 4	4	'	-15Q2	2T1			/15.1
=	2		+EXT-15M1	U	6 **2** 3	3	'	-15Q2	4T2			/15.1
=	3		+EXT-15M1	W	7 **3** 2	2	'	-15Q2	6T3			/15.1
=	GNYE		+EXT-15M1	PE	1 **4**	1						/15.1

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			Editor				Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**
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+
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Terminal diagram

Terminal strip
=P15(i)_P28(i)+SS01
-16X1
Hydraulic motor 1 Fan

function text	+EXT-16W1	Cable name	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	Cable name	Page / column
	LÜTZE SILFLEX® N PVC MULTINORM 7x2,5 mm²	cable type								cable type	
Hydraulic motor 1 Fan	1		+EXT-16M1	U	5 **1** 4	4	'	-16Q5	2/T1		/16.1
=	2		+EXT-16M1	V	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

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			Editor				Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**
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Terminal diagram

Terminal strip
=P15(i)_P28(i)+SS01
-40X1
0VDC

function text	-63W2.1	Cable name	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	Cable name	Page / column
	PVC 8x0,25 mm²	cable type								cable type	
Power supply unit			-15Q2	A2	4 **1** 1	0		-40G1	2.4		/40.1
			-41F1	3.1	2						
			-41F7	3.2	3						
Power supply unit			-50KF11	X80:2	4 **2** 1	0		-16Q5	A2		/40.1
			+DR-60S5	X2	2						
			-50KF51	1N	3						
Power supply unit			-50KF41	M	4 **3** 1	0		-50KF21	M		/40.2
			-50KF51	2N	3						
Power supply unit			-61U7	-	4 **4** 1	0		+DR-60A1	-X80:2		/40.2
			-120X1	2:2	3						
Power supply unit			-68T1	8	4 **5** 1	0		-68K1	A2		/40.2
			-69X1	2:2	2						
			-70K1	A2	3						
Power supply unit	DBU/WH		-63X2	1	4 **6** 1	0		-40G1	2.3		/40.2
			-40XT5	1:1	2						

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Terminal diagram

Terminal strip
=P15(i)_P28(i)+SS01
-41X1
24VDC 1

function text	Cable name	cable type	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	Cable name	cable type	Page / column
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

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			Editor					+
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Terminal diagram

Terminal strip
=P15(i)_P28(i)+SS01
-41X3
24VDC 2

function text	Cable name	cable type	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	Cable name	cable type	Page / column
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	13	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

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Terminal diagram

Terminal strip
=P15(i)_P28(i)+SS01
-41X5
24VDC 3

function text	Cable name	cable type	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	Cable name	cable type	Page / column
24VDC EMERGENCY STOP			-50KF51	1L	4 **1** 1	0		-41F5	2.1			/41.5
=			-50KF21	4	4 **2**	0						/41.5

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			Editor				Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**
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Terminal diagram

Terminal strip
=P15(i)_P28(i)+SS01
-41X7
24VDC 4

function text	Cable name	cable type	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	Cable name	cable type	Page / column
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

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			Editor				
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Terminal diagram

Terminal strip
=P15(i)_P28(i)+SS01
-65X1
Interface 1 Emergency stop

function text	Cable name	cable type	Target designation External	Connection point	terminal		Level	jumper	Target designation Internal	Connection point	Cable name	cable type	Page / column
					1	1	1		-10Q6	74			/65.0
					2	2	2		-10Q6	84			/65.0
					3	1	1		-10Q5	73			/65.0
					4	2	2		-10Q5	83			/65.1
					5		1						/65.1
					6		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

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Terminal diagram

Terminal strip
=P15(i)_P28(i)+SS01
-66X1
Interface 1

function text	Cable name	cable type	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	Cable name	cable type	Page / column
					4 **1** 1	1	'	-41X7	1:3			/66.0
					2	2	'					/66.0
Interface 1 External Start / Stop (1 = start) (0 = Stop after end of cycle)					4 **3** 1	1	'	-50KF22	1			/66.1
Interface 1 Drain Machine (1 = drain)					3 **4** 2	2	'	-50KF22	2			/66.2
Interface 1 next batch (1 = next)					4 **5** 1	1	'	-50KF22	3			/66.3
Interface 1 additional start condition (1 = approval)					3 **6** 2	2	'	-50KF22	4			/66.4
Spare					**7** 1	1	'	-50KF22	5			/66.5
=					**8** 2	2	'	-50KF22	6			/66.6
=					**9** 1	1	'	-50KF22	7			/66.7
=					**10** 2	2	'	-50KF22	8			/66.8
					11 1	1	'	-68K1	13			/67.0
					12	2	'					/67.0
Interface 1 Machine ready (1 = ready)					**13** 1	1	'	-68K1	14			/67.1
Interface 1 Machine active (1 = active)					**14** 2	2	'	-68K2	14			/67.2
Interface 1 Batch completed (1 = completed)					**15** 1	1	'	-68K3	14			/67.3
Interface 1 Machine drained (1 = empty)					**16** 2	2	'	-68K4	14			/67.4
=					**17**	1	'					/67.4
=					**18**	2	'					/67.5

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			Editor				Scheme-No.:
Modification	Date	Name					

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+
l sh 21
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Terminal diagram

Terminal strip
=P15(i)_P28(i)+SS01
-68X1
Interface 1

function text	Cable name	cable type	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	Cable name	cable type	-68W1.2 LÜTZE ELECTRONIC LH(C)Y 3x0,34 mm²	Page / column
Interface 1 Specification of production speed remotely (4...20mA = 0...100%)			=R70i+EXT-96K4	1	4 **1** 1	1	'	-68T1	1		BN		/68.1
=			=R70i+EXT-96K4	5	3 **2** 2	2	'	-68T1	2		WH		/68.1
=					**3**	1	'						/68.2
=			=R70i+EXT-68W1.3	SH	3 **4**	2	'						/68.2

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Terminal diagram

Terminal strip

=P15(i)_P28(i)+SS01

-69X1

Interface 1 ASCO CO2 detector

function text	+EXT-69W1	Cable name	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	Cable name	-69W3	Page / column
	LÜTZE SILFLEX® N (C) PVC MULTINORM 12x1,5 mm²	cable type								cable type	LÜTZE ELECTRONIC LH(C)Y 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	'	-50KF22	9			/69.6
=	8		+EXT-69A1	23	4 **7** 1	1	'	-50KF22	10			/69.7
=	9		+EXT-69A1	13	3 **8** 2	2	'	-50KF22	11			/69.8
=	GNYE		+EXT-69A1	PE	4 **9**	1	'					/69.9
=	SH		+EXT-69W1	SH	3 **10**	2	'					/69.9

V500	31.01.2024	ASCO	Date	25.11.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal diagram =P15(i)_P28(i)+SS01-69X1	Project-No.:
			Editor				Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**
							Scheme-No.:
Modification	Date	Name					Scheme-No. Customer: / Project-No. Customer:

= AUS06 | + | l sh 21 | Pg 12

Terminal diagram

Terminal strip
=P15(i)_P28(i)+SS01
-70X1
Interface 1 conveyor belt

function text	Cable name	cable type	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	Cable name	cable type	Page / column
Interface 1 Start the conveyor belt (1 = start, 0 = stop)			+CVB-20X2	4	4 **1** 1	1	'	-70K1	13			/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	'	-50KF22	16			/70.5
=			+CVB-20X2	PE	4 **5**	1	'					/70.5
=					**6**	2	'					/70.6

V500	31.01.2024	ASCO	Date	25.11.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal diagram =P15(i)_P28(i)+SS01-70X1	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS06
			Editor						+
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 21
Modification	Date	Name							Pg 13

Terminal diagram

Terminal strip
=P15(i)_P28(i)+SS01
-110X1
Plant part 1 oil level

function text	+EXT-110W1	Cable name	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	Cable name	Page / column
	ÖLFLEX® CLASSIC 130 H 4x0,5 mm²	cable type								cable type	
Plant part 1 oil level	1		+EXT-110B1	1	4 **1** 1	1	'	-41X3	3:1		/110.1
=	2		+EXT-110B1	2	3 **2**	2	'				/110.1
=	3		+EXT-110B1	3	4 **3** 1	1	'	-50KF21	14		/110.1
=					**4**	2	'				/110.1
=	GNYE		+EXT-110B1	PE	4 **5**	1	'				/110.2
=					**6**	2	'				/110.2

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			Editor					+
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer: / l sh 21
Modification	Date	Name						Pg 14

Terminal diagram

Terminal strip

=P15(i)_P28(i)+SS01

-120X1

Plant part 1 linear measurement

function text	+EXT-120W1	Cable name	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	Cable name	Page / column
	BCC M428-0000-1A-133-P50825-050BN 8x0.25 mm²	cable type								cable type	
Plant part 1 linear measurement	BN		+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

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Terminal diagram

Terminal strip
=P15(i)_P28(i)+SS01
-120X5
Plant part 1 pressure measurement hydraulic

function text	+EXT-120W5	Cable name	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	Cable name	Page / column
	PUR 4x0.34 mm²	cable type								cable type	
Plant part 1 pressure measurement hydraulic	BN		+EXT-120B5	1	4 **1** 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

V500	31.01.2024	ASCO	Date	25.11.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal diagram =P15(i)_P28(i)+SS01-120X5	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS06
			Editor						+
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Modification	Date	Name							Pg 16

Terminal diagram

Terminal strip

=P15(i)_P28(i)+SS01

-120X7

Plant part 1 Pressure measurement CO2

function text	+EXT-120W7	Cable name	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	Cable name	Page / column
	LÜTZE ELECTRONIC LiY(C)Y 3x0,34 mm²	cable type								cable type	
Plant part 1 Pressure measurement CO2	BN		+EXT-120B7	1	4 **1** 1	1	'	-50KF32	9		/120.7
=	WH		+EXT-120B7	2	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

V500	31.01.2024	ASCO	Date	25.11.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal diagram =P15(i)_P28(i)+SS01-120X7	Project-No.:
			Editor				Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**
							Scheme-No.:
Modification	Date	Name					Scheme-No. Customer: / Project-No. Customer:

= AUS06 | + | l sh 21 | Pg 17

Terminal diagram

Terminal strip
=P15(i)_P28(i)+SS01
-120X9

function text	+EXT-120W9	Cable name	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	Cable name	Page / column
	PUR 4x0.34 mm²	cable type								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

V500	31.01.2024	ASCO	Date	25.11.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal diagram =P15(i)_P28(i)+SS01-120X9	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS06
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Terminal diagram

Terminal strip
=P15(i)_P28(i)+SS01
-130X1
Plant part 1 CO2 valve 1

function text	+EXT-130W3	+EXT-130W1	Cable name	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	Cable name	Page / column
	LÜTZE SILFLEX® N PVC MULTINORM 3x0,5 mm²	LÜTZE SILFLEX® N PVC MULTINORM 3x0,5 mm²	cable type								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

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							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer: / l sh 21
Modification	Date	Name						Pg 19

Terminal diagram

Terminal strip

=P15(i)_P28(i)+SS01

-130X5

Plant part 1 valve forward

function text	+EXT-130W7	+EXT-130W5	Cable name	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	Cable name	Page / column
	PUR 3x0,75 mm²	PUR 3x0,75 mm²	cable type								cable type	
Plant part 1 valve forward		1		+EXT-130Y5	A1	4 **1** 1	1	'	-50KF53	3		/130.6
=		2		+EXT-130Y5	A2	3 **2** 2	2	'	-50KF53	11		/130.6
=		GNYE		+EXT-130Y5	PE	4 **3**	1	'				/130.7
=						**4**	2	'				/130.7
Plant part 1 valve backward	1			+EXT-130Y7	A1	4 **5** 1	1	'	-50KF53	4		/130.8
=	2			+EXT-130Y7	A2	3 **6** 2	2	'	-50KF53	12		/130.8
=	GNYE			+EXT-130Y7	PE	4 **7**	1	'				/130.9
=						**8**	2	'				/130.9

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Terminal diagram

Terminal strip

=P15(i)_P28(i)+SS01

-40XT5

Power supply unit Disconnect terminal

function text	Cable name	cable type	Target designation External	Connection point	terminal	Level	jumper	Target designation Internal	Connection point	Cable name	cable type	Page / column
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							

V500	31.01.2024	ASCO	Date	25.11.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal diagram =P15(i)_P28(i)+SS01-40XT5	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS06
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Modification	Date	Name							Pg 21

Terminal line-up diagram

Power supply

=P15(i)_P28(i)
+SS01
-10X1

Part number					
Mounting rail			Strip label	End angle rear	End plate
				WAGO.249-117	PXC.3208979

Terminal					
Part number	Type number	Cross-section	Terminal label	Jumper	Cover
WAGO.249-117	249-117				
PXC.3208979	D-PT 4-QUATTRO				
PXC.3211809	PT 4-QUATTRO-PE	6			
PXC.3211809	PT 4-QUATTRO-PE	6			

			
			
'	1		
'	2		

V500	31.01.2024	ASCO	Date	02.12.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal line-up diagram =P15(i)_P28(i)+SS01-10X1	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS07
			Editor						+
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 22
Modification	Date	Name							Pg 1

Terminal line-up diagram

Hydraulic motor 1

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

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				

			
			
'	1		
'	2		
'	3		
	4		

V500	31.01.2024	ASCO	Date	10.01.2025	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal line-up diagram =P15(i)_P28(i)+SS01-15X1	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS07
			Editor						+
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Modification	Date	Name							Pg 2

Terminal line-up diagram

Hydraulic motor 1
Fan

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

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			

			
			
'	1		
'	2		
'	3		
	4		
'	5		
'	6		

V500	31.01.2024	ASCO	Date	10.01.2025	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal line-up diagram =P15(i)_P28(i)+SS01-16X1	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS07
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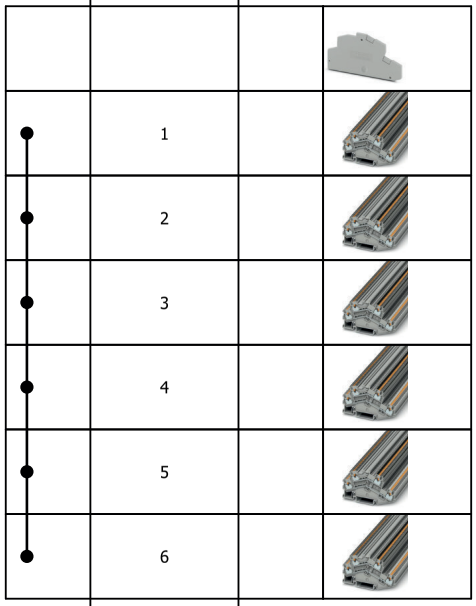
Terminal line-up diagram

0VDC

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

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			



V500	31.01.2024	ASCO	Date	10.01.2025	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal line-up diagram =P15(i)_P28(i)+SS01-40X1	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS07
			Editor						+
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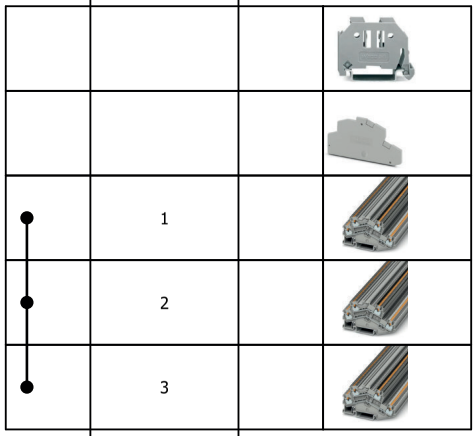
Terminal line-up diagram

24VDC 1

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

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			



V500	31.01.2024	ASCO	Date	10.01.2025	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal line-up diagram =P15(i)_P28(i)+SS01-41X1	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS07
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Terminal line-up diagram

24VDC 2

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

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			

			
●	1		
●	2		
●	3		
●	4		

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Terminal line-up diagram

24VDC 3

=P15(i)_P28(i)
+SS01
-41X5

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			

			
	1		
	2		

V500	31.01.2024	ASCO	Date	10.01.2025	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal line-up diagram =P15(i)_P28(i)+SS01-41X5	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS07
			Editor						+
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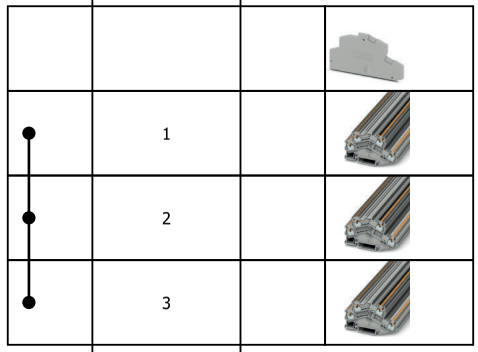
Terminal line-up diagram

24VDC 4

=P15(i)_P28(i)
+SS01
-41X7

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			



V500	31.01.2024	ASCO	Date	10.01.2025	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal line-up diagram =P15(i)_P28(i)+SS01-41X7	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS07
			Editor						+
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 22
Modification	Date	Name							Pg 8

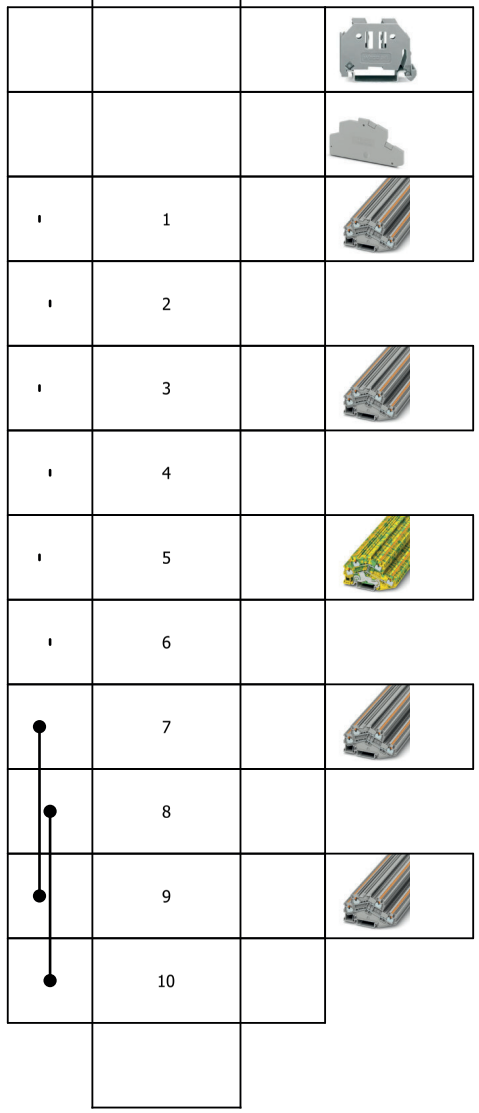
Terminal line-up diagram

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.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



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			Editor						+
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 22
Modification	Date	Name							Pg 9

Terminal line-up diagram

Interface 1

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

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			

			
			
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'	9		
'	10		
'	11		

V500	31.01.2024	ASCO	Date	02.12.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal line-up diagram =P15(i)_P28(i)+SS01-66X1	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS07
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Modification	Date	Name							Pg 10

Terminal line-up diagram

Interface 1

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			

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

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

V500	31.01.2024	ASCO	Date	02.12.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal line-up diagram =P15(i)_P28(i)+SS01-66X1	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS07
			Editor						+
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 22
Modification	Date	Name							Pg 10.1

Terminal line-up diagram

Interface 1

=P15(i)_P28(i)
+SS01
-68X1

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.3214673	PTTBS 1,5/S-PE	1.5			

			
'	1		
'	2		
'	3		
'	4		

V500	31.01.2024	ASCO	Date	02.12.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal line-up diagram =P15(i)_P28(i)+SS01-68X1	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS07
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							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 22
Modification	Date	Name							Pg 11

Terminal line-up diagram

Interface 1
ASCO CO2 detector

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

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.3214673	PTTBS 1,5/S-PE	1.5			

			
			
'	1		
'	2		
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'	4		
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'	6		
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'	8		
'	9		
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V500	31.01.2024	ASCO	Date	02.12.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal line-up diagram =P15(i)_P28(i)+SS01-69X1	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS07
			Editor						+
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 22
Modification	Date	Name							Pg 12

Terminal line-up diagram

Interface 1
conveyor belt

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

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			

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

V500	31.01.2024	ASCO	Date	02.12.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal line-up diagram =P15(i)_P28(i)+SS01-70X1	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS07
			Editor						+
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 22
Modification	Date	Name							Pg 13

Terminal line-up diagram

Plant part 1
oil level

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

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			

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

V500	31.01.2024	ASCO	Date	02.12.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal line-up diagram =P15(i)_P28(i)+SS01-110X1	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**
			Editor				Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:
Modification	Date	Name						

= AUS07
+
l sh 22
Pg 14

Terminal line-up diagram

Plant part 1
oil temperature

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

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				

V500	31.01.2024	ASCO	Date	02.12.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal line-up diagram =P15(i)_P28(i)+SS01-110X3	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS07
			Editor						+
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 22
Modification	Date	Name							Pg 15

Terminal line-up diagram

Plant part 1
linear measurement

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

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.3214673	PTTBS 1,5/S-PE	1.5			

			
'	1		
'	2		
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'	4		
'	5		
'	6		
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'	8		
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V500	31.01.2024	ASCO	Date	02.12.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal line-up diagram =P15(i)_P28(i)+SS01-120X1	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS07
			Editor						+
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 22
Modification	Date	Name							Pg 16

Terminal line-up diagram

Plant part 1
pressure measurement hydraulic

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

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			

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

V500	31.01.2024	ASCO	Date	02.12.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal line-up diagram =P15(i)_P28(i)+SS01-120X5	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS07
			Editor						+
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Modification	Date	Name							Pg 17

Terminal line-up diagram

Plant part 1
Pressure measurement CO2

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

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			

			
			
'	1		
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V500	31.01.2024	ASCO	Date	02.12.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal line-up diagram =P15(i)_P28(i)+SS01-120X7	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS07
			Editor						+
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Modification	Date	Name							Pg 18

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		
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'	5		
'	6		

V500	31.01.2024	ASCO	Date	02.12.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal line-up diagram =P15(i)_P28(i)+SS01-120X9	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS07
			Editor						+
							Scheme-No.:	Scheme-No. Customer: / Project-No. Customer:	l sh 22
Modification	Date	Name							Pg 19

Terminal line-up diagram

Plant part 1
CO2 valve 1

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

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			

			
			
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V500	31.01.2024	ASCO	Date	02.12.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal line-up diagram =P15(i)_P28(i)+SS01-130X1	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS07
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Modification	Date	Name							Pg 20

Terminal line-up diagram

Plant part 1
valve forward

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

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			

			
			
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'	6		
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'	8		

V500	31.01.2024	ASCO	Date	02.12.2024	ASCO Kohlensäure AG Hofenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 http://www.ascoco2.com	Page description: Terminal line-up diagram =P15(i)_P28(i)+SS01-130X5	Project-No.:	Project designation: **Dry Ice Pelletizer P15 EVO / P28 EVO CE US V510**	= AUS07
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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			

Power supply unit
Disconnect terminal

=P1.5(i)_P28(i)
+SS01
-40XT5

			
			
			
	1		
	2		

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All about CO₂ http://www.ascoco2.com

Page description:
Terminal line-up diagram =P1.5(i)_P28(i)+SS01-40XT5

Project-No.:

Scheme-No.:

Project designation:
Dry Ice Pelletizer P1.5 EVO / P28 EVO CE US V510

Scheme-No. Customer:

Project-No. Customer:

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Pg 22

HYDRAULIC

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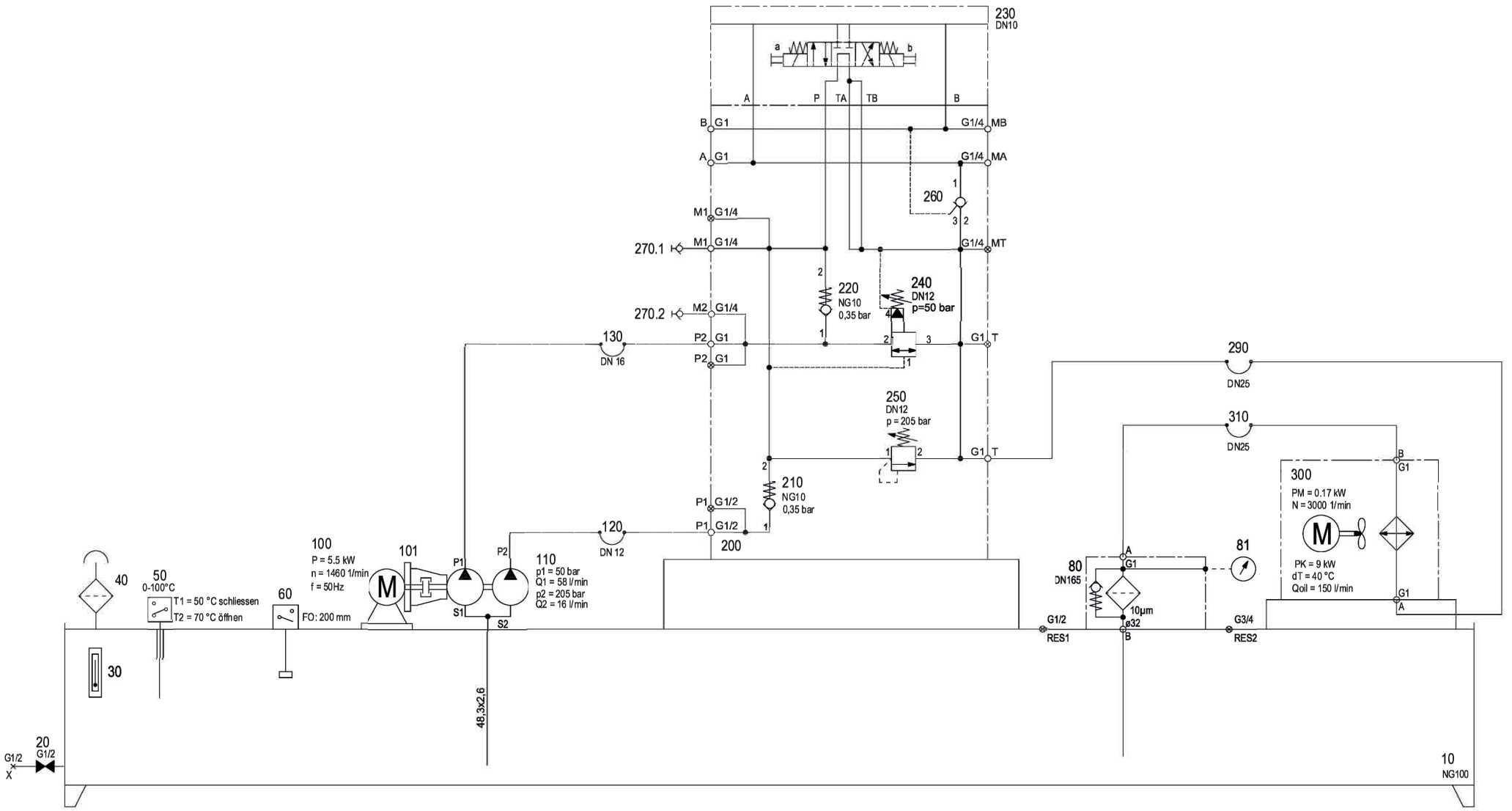
Aggregatsgrenze



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

Anz./ No Index/ Index	gepr. am chkd. on geänd. am modif. on	gepr. von checked geänd. von modif. by	Ä. M. Nr. Notice of change No
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Blatt von/ Sheet of 1/1

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Benennung/Description

P&ID HPU-M-100-1x5,5-HE-24003 *P28i EU*

ASCO All about CO₂

Zeichn.-Nr./ Draw.-No 4799128

alte Mat Nr /old MatNo :

Dok Nr./Doc No:

Ers. für/Exchange for:

Ers. durch/Replaced by:

Schutzvermerk ISO 16016 beachten/Observing of protection notice ISO 16016