

**DIAGRAM
ELECTRIC**

**ASCO DRY ICE PELLETIZER
P55 EVO**

from SN 25-033-001
ascoco2.com



02.10.2025

ASCO CARBONDIOXIDE LTD.

Head office

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ELECTRIC

	 WARNING
	<p>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.</p>

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=P55EVO	+SS01	2.2	Table of contents		25.09.2025	
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=P55EVO	+TEIL1	120	System section 1 Analog sensors		25.09.2025	
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=AUS02	+SS01	1	Summarized parts list		25.09.2025	
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=AUS02	+TEIL2	1.1	Summarized parts list		25.09.2025	
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=AUS05		1	Terminal-strip overview		25.09.2025	

Structure identifier overview

Full designation	Structure description
Funktionskennzeichen	
=P55EVO	Pelletizer P55EVO
=R70i	Reformer R70i
=AUS01	Parts list
=AUS02	Summarized parts list
=AUS04	Cable overview
=AUS05	Klemmleistenübersicht
=R70	

Full designation	Structure description
Ortskennzeichen	
+SS01	Control cabinet
+DR	Door
+CVB	conveyor belt
+ET200PRO	ET200pro
+EXT	External
+HYD	Hydraulics
+TEIL1	Part section 1
+TEIL2	Part section 2
+CST	Customer

Engineering standards

Low voltage installation standard:
Electrical equipment of machines
Switching device combinations:
Symbols for electric circuit diagrams

NIN
EN60204-1
EN60439
EN60617

Customer-specific standards

color of wires to EN60204-1

main circuit:
Neutral conductor:
Protective wire PE:
Functional earth FE:
Shield SH:
Control voltage AC L (to Transformer):
Control voltage AC GND (to Transformer),
If second wire grounded:
Control voltage DC +:
Control voltage DC GND
If second wire grounded:
Signal cable Analog:
External voltage:

black
white
green/yellow
green/yellow
red
red/white
dark blue
dark blue/white
grey
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

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




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.

V200	31.01.2024	ASCO	Date	25.09.2025	 ASCO Kältetechnik AG Hohenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 info@asco2.com
			Editor		

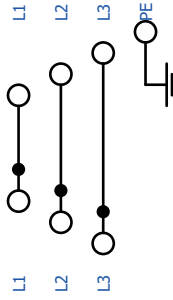
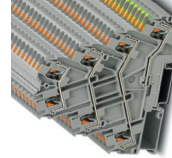
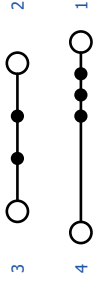
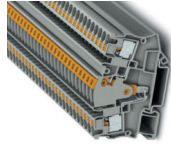
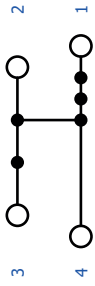
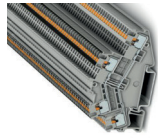
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Project-No.:	
Scheme-No.:	

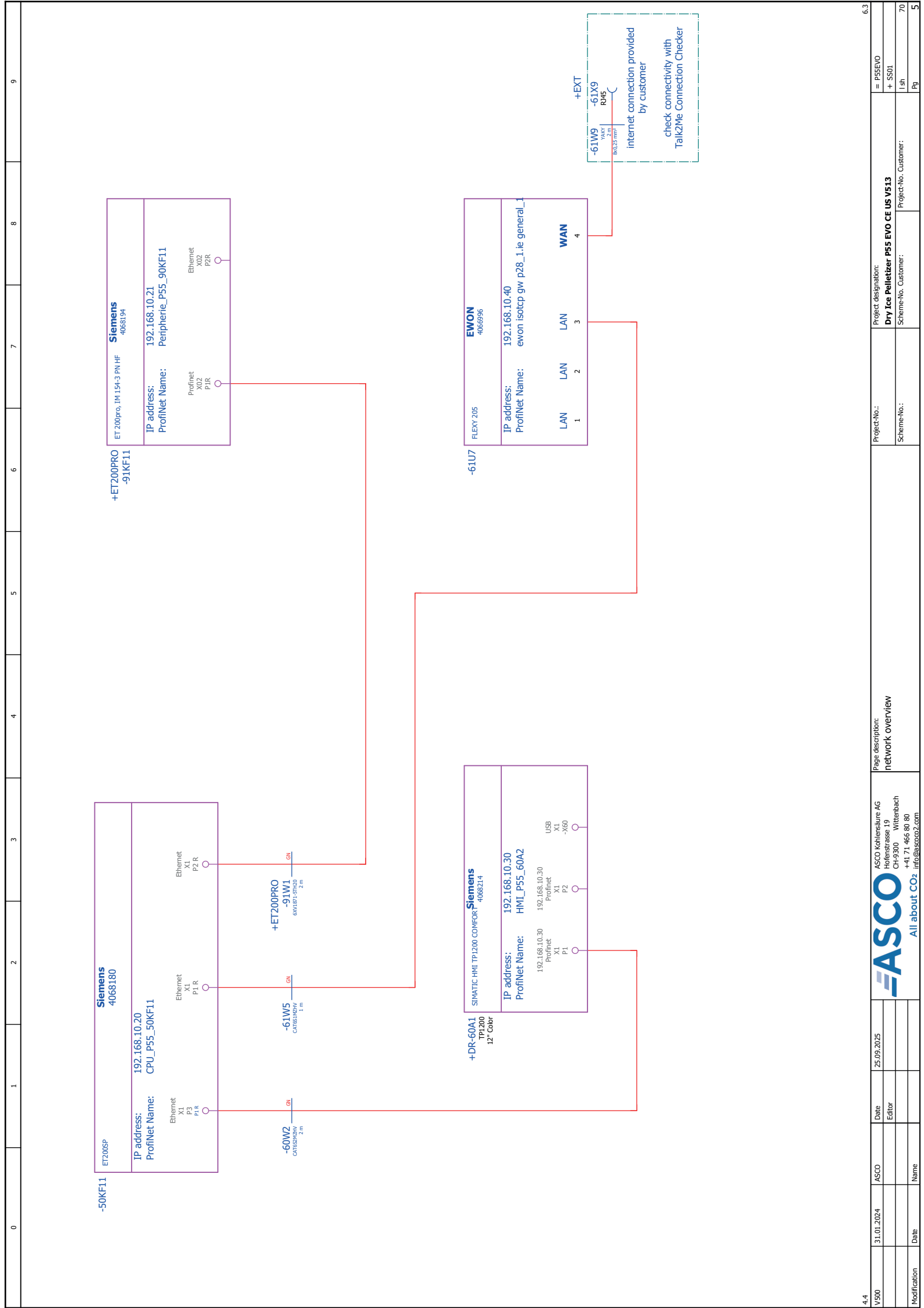
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Project-No. Customer:	

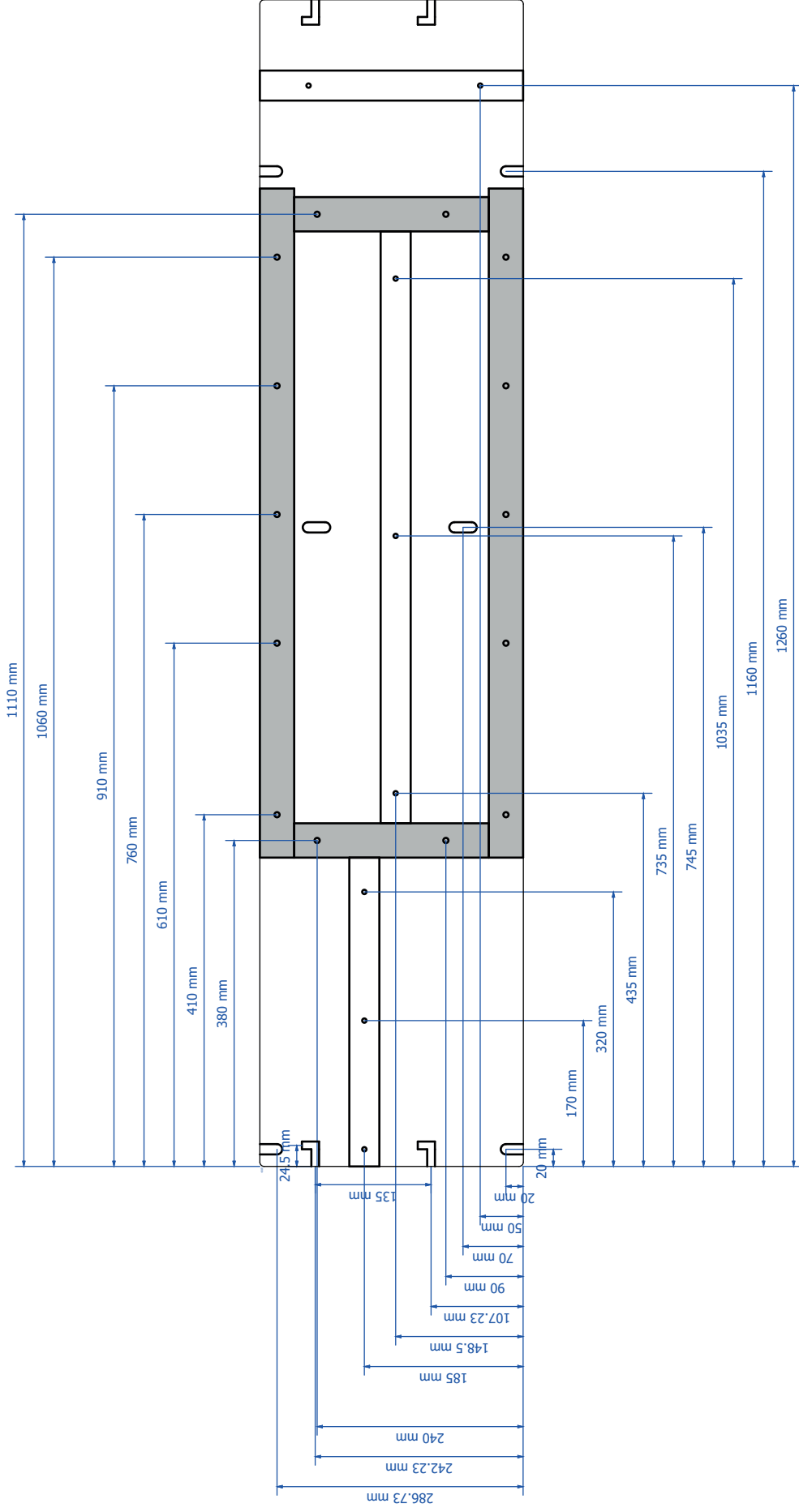
= P5EVO + S501	
1 sh	70
Pg	4,2

Terminal numbering



V200	31.01.2024	ASCO	25.09.2025	ASCO Kabelleisterei AG Höfenerstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 info@asco2z.com	Page description: Terminal numbering	Project-No.: Scheme-No.:	Project designation: Dry Ice Pelletizer P55 EYO CE US V513 Project-No. Customer: Scheme-No. Customer:	= P55EVO + SS01 Lsh Pg
Modification	Date	Name						4.4

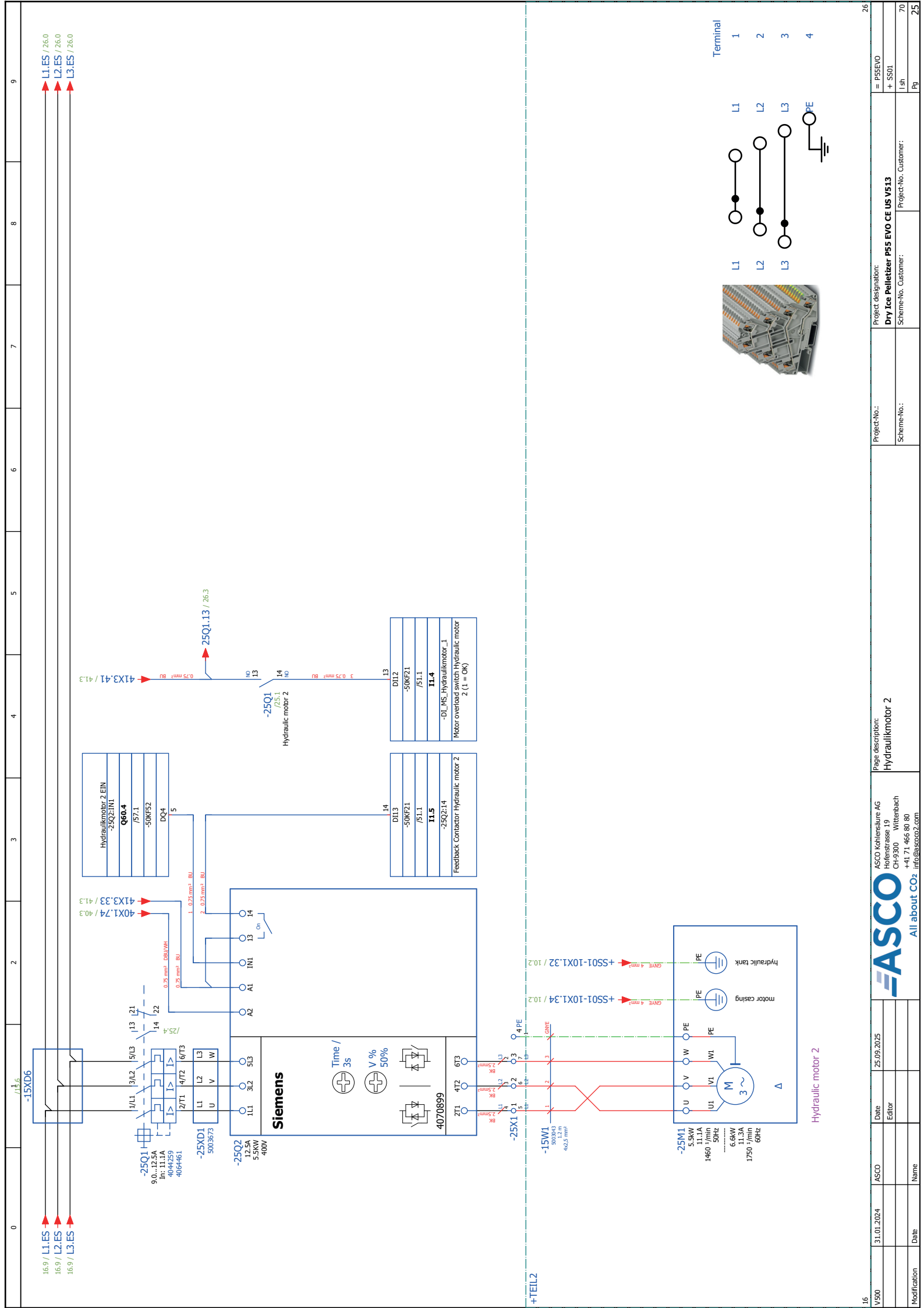


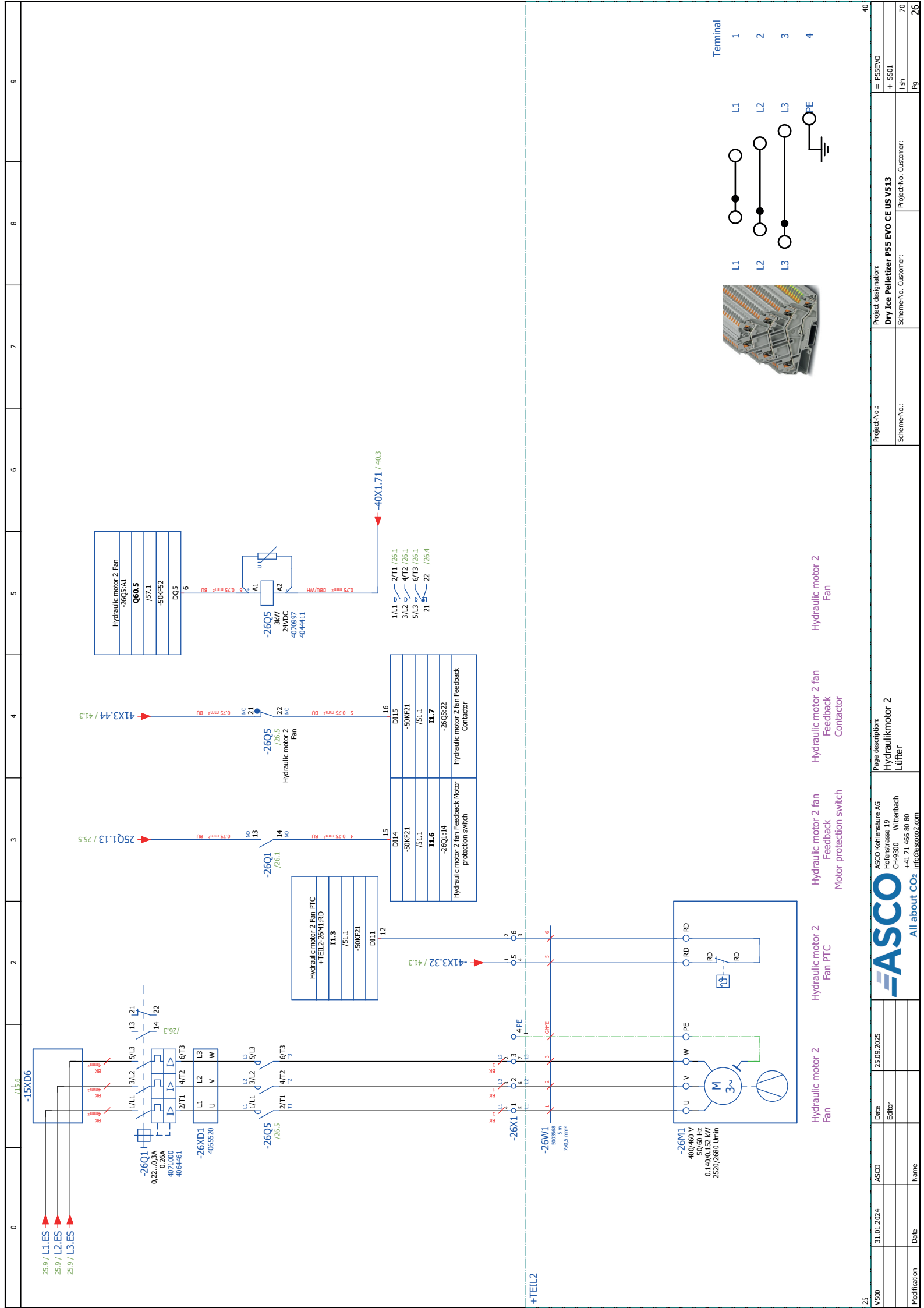


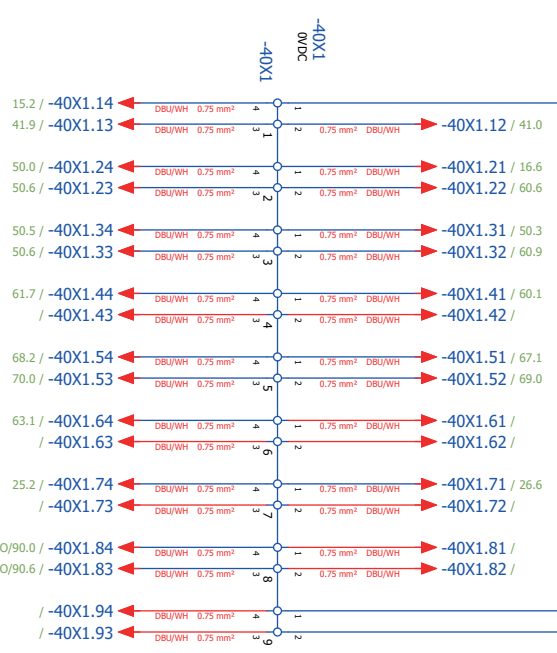
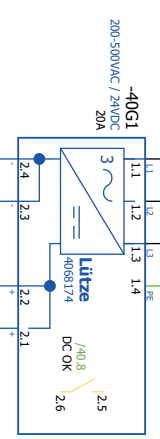
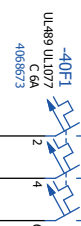
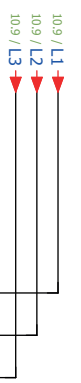
Platte : \varnothing 12 (6x)
 Kanal : \varnothing 6 (12x)
 Schiene : M5 (7x)

BxH: 1360mmx307mm

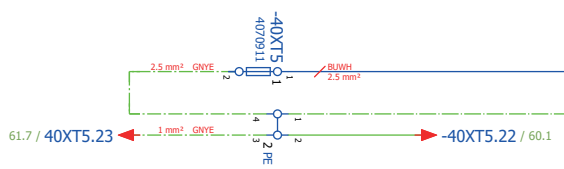
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Modification	Date	Name			Project-No. Customer:	1 sh
						Pg



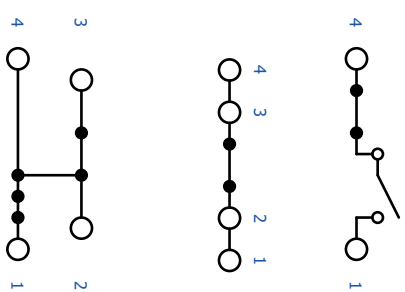
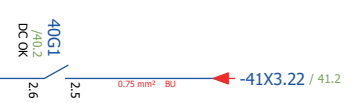


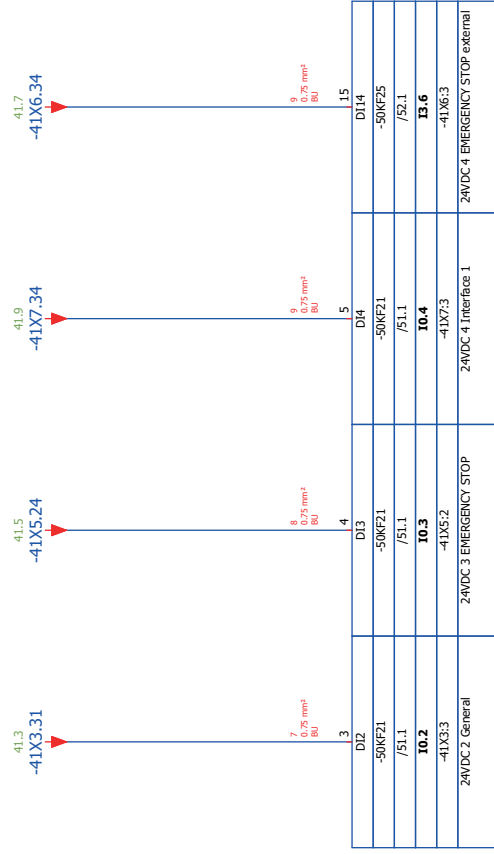


Power supply unit



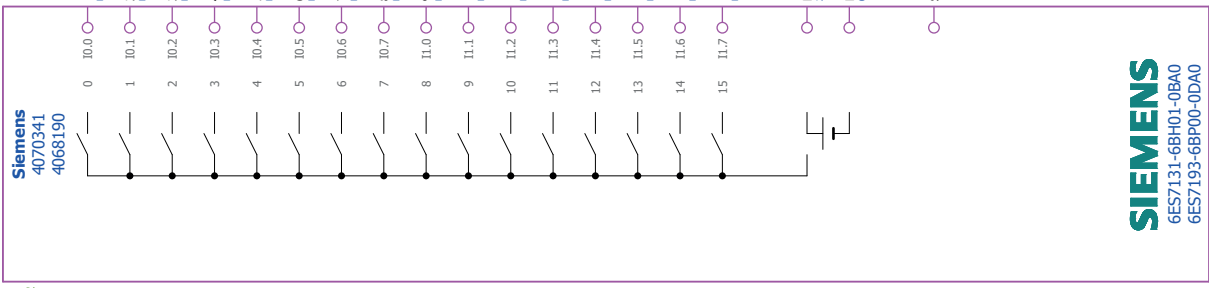
D11	2
-50K721	
/51.1	
10.1	
-40G1.2.6	
24VDC OK	





DI2	DI3	DI4	DI14
-50KF21	-50KF21	-50KF21	-50KF25
/51.1	/51.1	/51.1	/52.1
10.2	10.3	10.4	15.6
-41X3.3	-41X5.2	-41X7.3	-41X6.3
24VDC 2 General	24VDC 3 EMERGENCY STOP	24VDC 4 Interface 1	24VDC 4 EMERGENCY STOP external

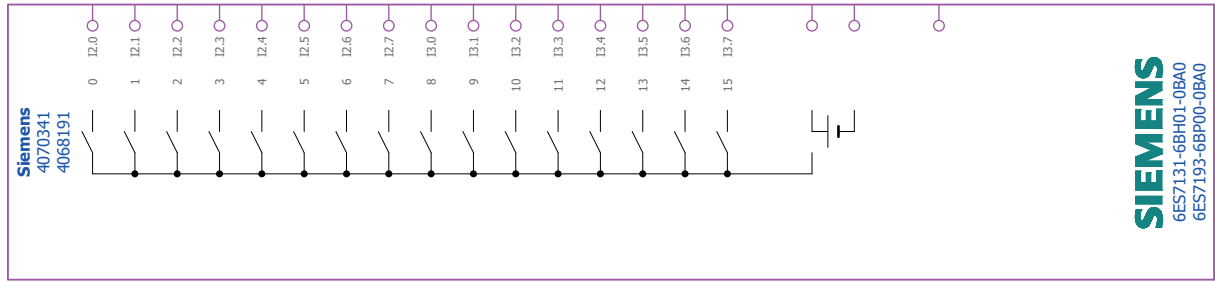
24VDC 2 General 24VDC 3 EMERGENCY STOP 24VDC 4 Interface 1 24VDC 4 EMERGENCY STOP external



-50KF21
/50.2

EMERGENCY STOP feed back
24VDC OK
24VDC 2 General
24VDC 3 EMERGENCY STOP
24VDC 4 Interface 1
Motor protection switch hydraulic motor 1 (1 = OK)
Feedback Contactor Hydraulic motor 1
Hydraulic motor 1 fan Feedback Motor protection switch
Hydraulic motor 1 fan Feedback Contactor
Movement confirmation
Hydraulic motor 1 Fan PTC
Hydraulic motor 2 Fan PTC
Motor overload switch Hydraulic motor 2 (1 = OK)
Feedback Contactor Hydraulic motor 2
Hydraulic motor 2 fan Feedback Motor protection switch
Hydraulic motor 2 fan Feedback Contactor

-50KF25
/50.3



/66.1 Interface 1 External Start / Stop (1 = start) (0 = Stop after end of cycle)

/66.2 Interface 1 Drain Machine (1 = drain)

/66.3 Interface 1 next batch (1 = next)

/66.4 Interface 1 additional start condition (1 = approval)

/66.5 Spare

/66.6 Spare

/66.7 Spare

/66.8 Spare

/69.6 Interface 1 CO2 ALARM 3 configurable

/69.7 Interface 1 CO2 ALARM 2 configurable

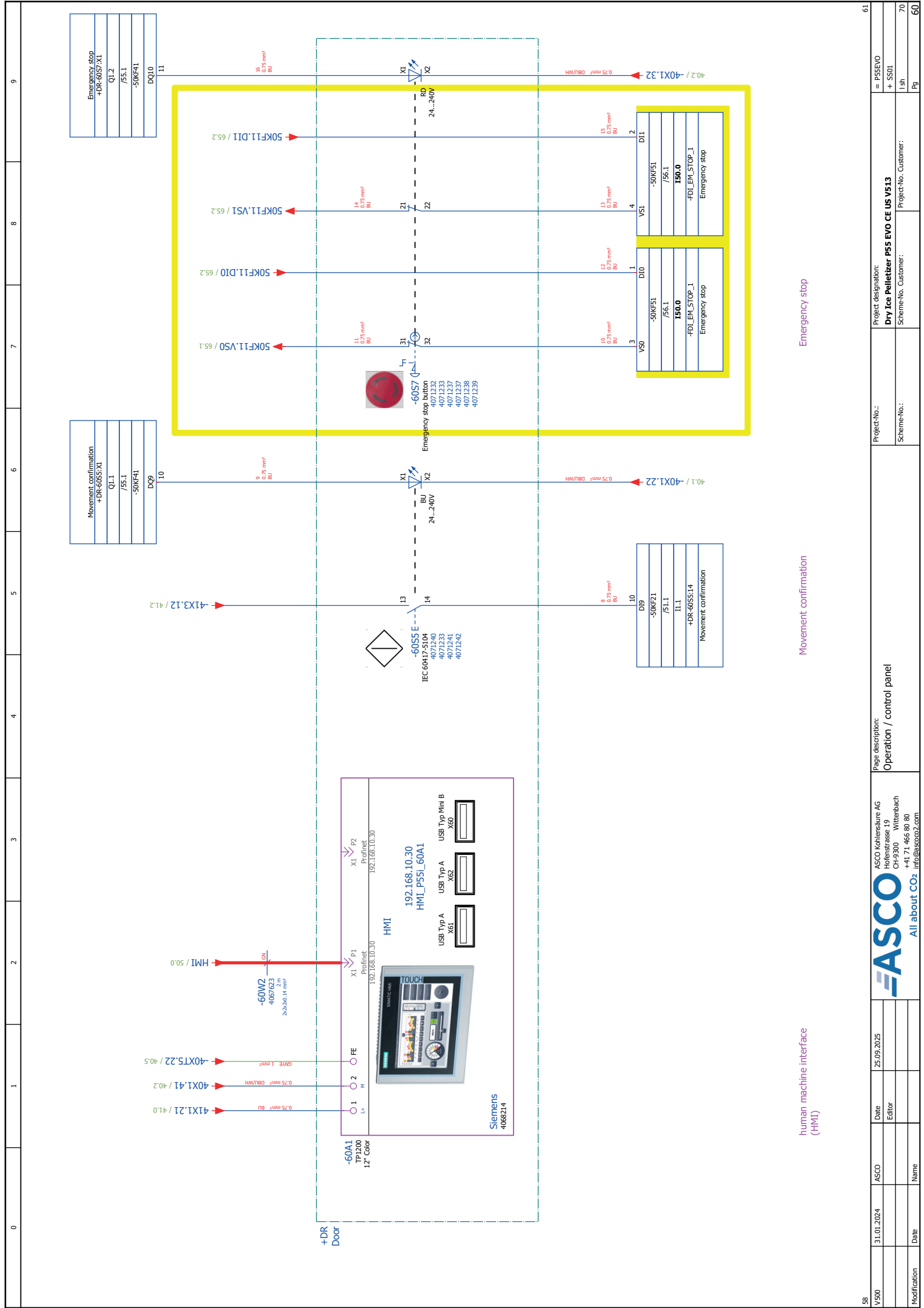
/69.8 Interface 1 CO2 ALARM 1 8h over 0.5%

/42.4 24VDC 4 EMERGENCY STOP external

/70.5 Interface 1 conveyor belt (1 = active, 0 = stopped)

0	1	2	3	4	5	6	7	8	9
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 40%;"> <p>ASCO Kohlewerke AG Hörsenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 info@ascoz.com</p> </div> <div style="width: 20%; text-align: center;">  <p>ASCO All about CO₂</p> </div> <div style="width: 20%;"> <p>Page description: PLC Overview</p> </div> <div style="width: 20%;"> <p>Project-No.: Dry Ice Pelletzer P55 EYO CE US V513</p> <p>Scheme-No.: Customer: Project-No. Customer:</p> </div> </div>									
V200	31.01.2024	ASCO	25.09.2025	Date					= P55EVO + SS01
Modification	Date	Name		Editor					ish Pg

0	1	2	3	4	5	6	7	8	9	
 ASCO All about CO ₂ info@asco2.com										
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Modification	Date	Name			Scheme-No.: Project-No. Customer:					70 Pg
					Project-No. Customer:					58



Movement confirmation
+DR-60S5:XI

Q1.1
/55.1
-50KF41
DQ9

Emergency stop
+DR-60S7:XI

Q1.2
/55.1
-50KF41
DQ10

Movement confirmation

D9
-50KF21
/51.1
Il.1
+DR-60S5:14

Emergency stop

D10
-50KF51
/56.1
150.0
-FDL EM_STOP_1
Emergency stop
D11
-50KF51
/56.1
150.0
-FDL EM_STOP_1
Emergency stop

human machine interface
(HMI)

Movement confirmation

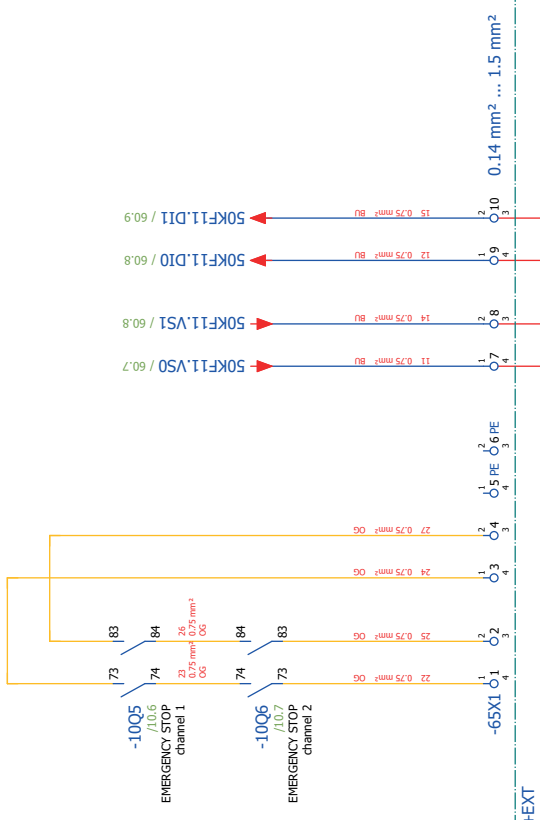
Emergency stop

58	31.01.2024	ASCO	25.09.2025	ASCO Kollersysteme AG Höhenstraße 19 CH-9300 Wittenbach +41 71 466 80 80 info@ascosz.com	Page description: Operation / control panel	Project-No.: Dry Ice Pelletizer PSS EVO CE US V5.13	61
V500						= PSEVO + SS01	
Modification	Date	Name				Project-No. Customer:	60
						1 sh	

Signal tower blue +EXT-63X1.1	Signal tower green +EXT-63X1.2	Signal tower yellow +EXT-63X1.3	Signal tower red +EXT-63X1.4	Signal tower Buzzer +EXT-63X1.5
Q1.3 /55.1	Q1.4 /55.1	Q1.5 /55.1	Q1.6 /55.1	Q1.7 /55.1
-50KF41	-50KF41	-50KF41	-50KF41	-50KF41
DQ11	DQ12	DQ13	DQ14	DQ15
12	13	14	15	16

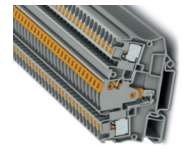


Signal tower blue
Signal tower green
Signal tower yellow
Signal tower red
Signal tower Buzzer



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

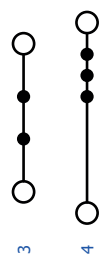
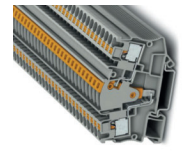
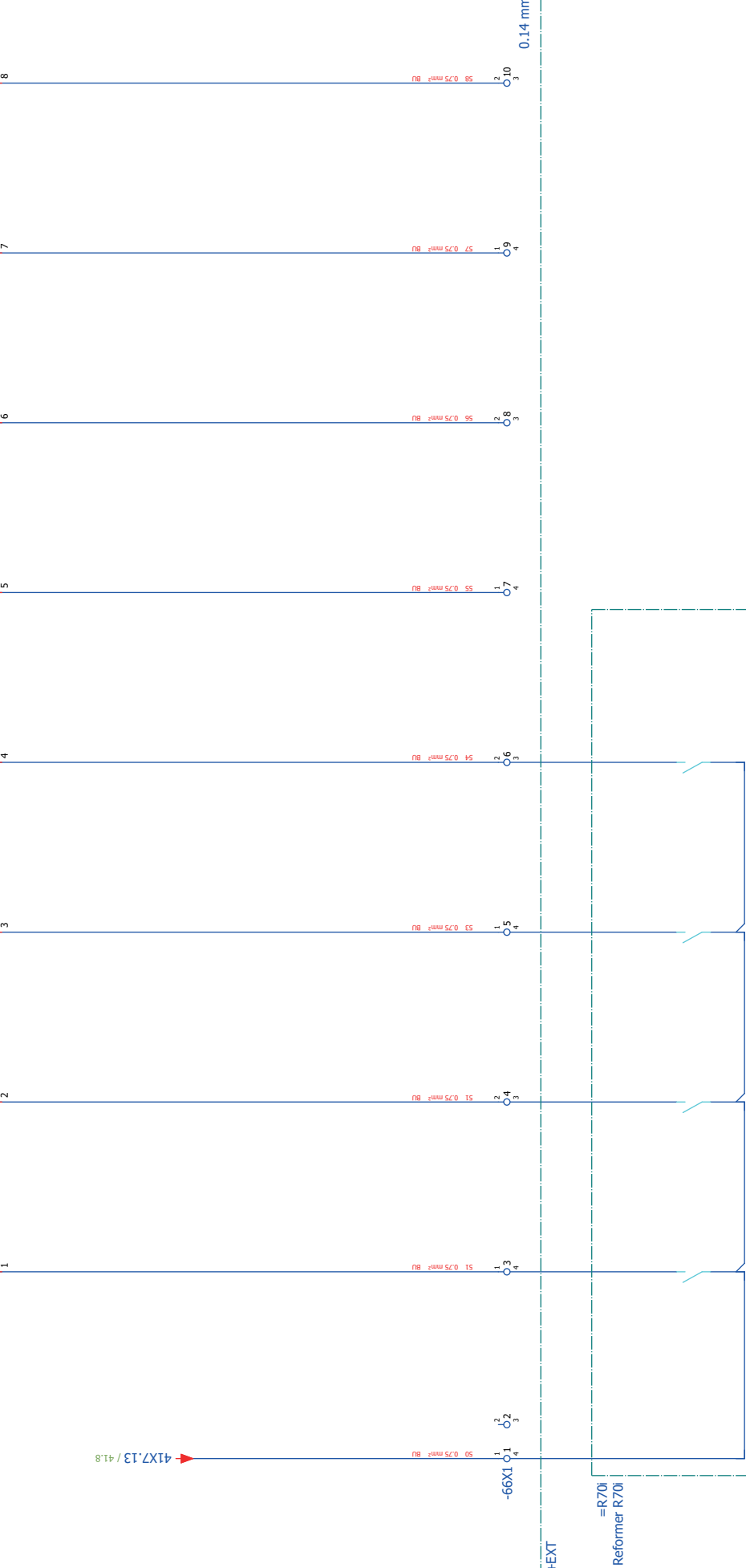
The integrator is responsible for integrating an external emergency stop or for integrating the machine into an external emergency stop. The emergency stop strategy and all associated standards must be observed in all cases. Integration may only be carried out by qualified personnel



OPTIONAL

V200	31.01.2024	ASCO	25.09.2025	ASCO Kollentechnik AG Höbenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 info@asco2.com	Page description: Interface 1 Emergency stop	Project-No.: Scheme-No. Customer:	Project designation: Dry Ice Pelletizer P55 EYO CE US V513 Project-No. Customer:	= P55EVO + S501 1 sh Pg	66
Modification	Date	Name							65

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
12.0 / 52.1 / 50KF25	12.1 / 52.1 / 50KF25	12.2 / 52.1 / 50KF25	12.3 / 52.1 / 50KF25	12.4 / 52.1 / 50KF25	12.5 / 52.1 / 50KF25	12.6 / 52.1 / 50KF25	12.7 / 52.1 / 50KF25
D10	D11	D12	D13	D14	D15	D16	D17



Spare

Spare

Spare

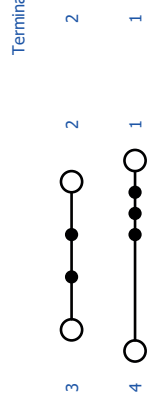
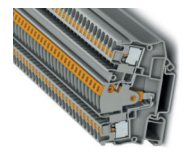
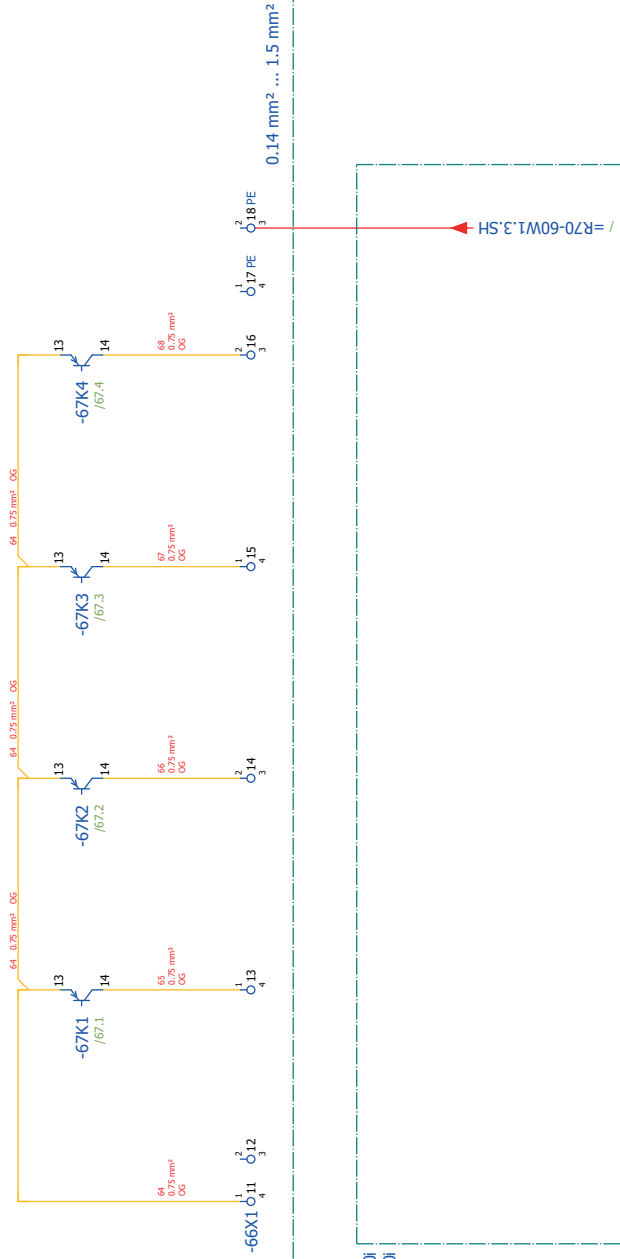
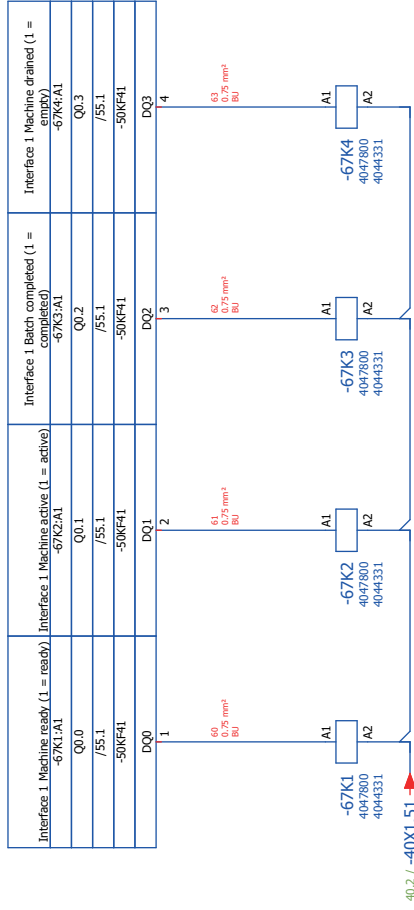
Interface 1 additional start condition (1 = approval)

Interface 1 next batch (1 = next)

Interface 1 Drain Machine (1 = drain)

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

OPTIONAL



Interface 1 Machine ready (1 = ready)

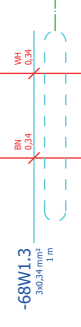
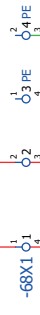
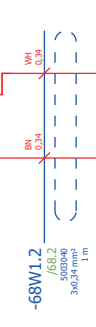
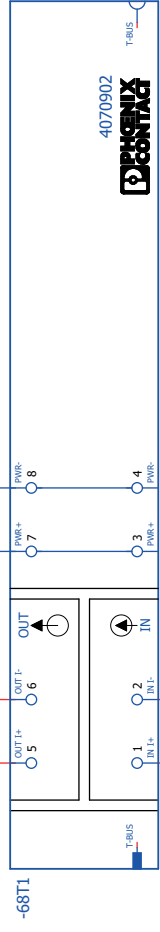
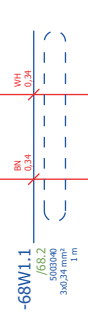
Interface 1 Machine active (1 = active)

Interface 1 Batch completed (1 = completed)

Interface 1 Machine drained (1 = empty)

OPTIONAL

Interface 1 Specification of production speed remotely (4...20mA = 0...100%)	
PWM110	/5*1.1
-50K*32	
113+	UV3 113+ 213+
4	12 8 16

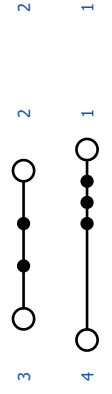
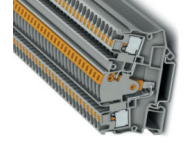


1	5	Q0+	-96K4
Leistungsregelung Pelletizer 1			

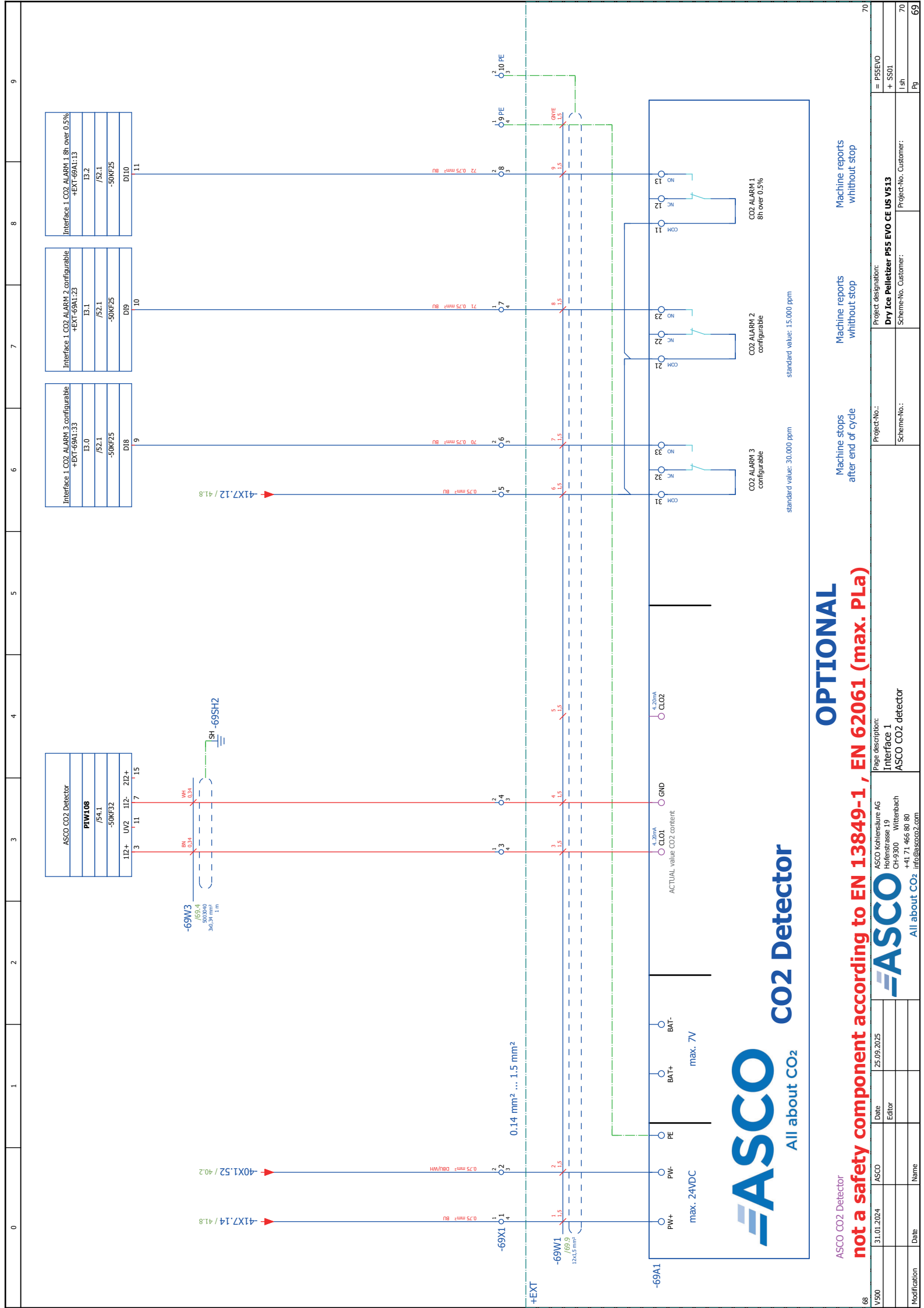
2	6	Q1-	-96K4
Leistungsregelung Pelletizer 2			

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

0.14 mm² ... 1.5 mm²



OPTIONAL

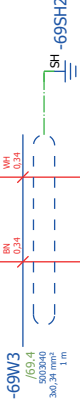


ASCO CO2 Detector			
PIW108			
/54.1			
-50KF32			
112+ UV2	112- 212+		
3	11	7	15

Interface 1 CO2 ALARM 3 configurable	
+EXT-69A1.133	
I3.0	
/52.1	
-50KF25	
D18	
9	

Interface 1 CO2 ALARM 2 configurable	
+EXT-69A1.123	
I3.1	
/52.1	
-50KF25	
D19	
10	

Interface 1 CO2 ALARM 1.8h over 0.5%	
+EXT-69A1.113	
I3.2	
/52.1	
-50KF25	
D110	
11	



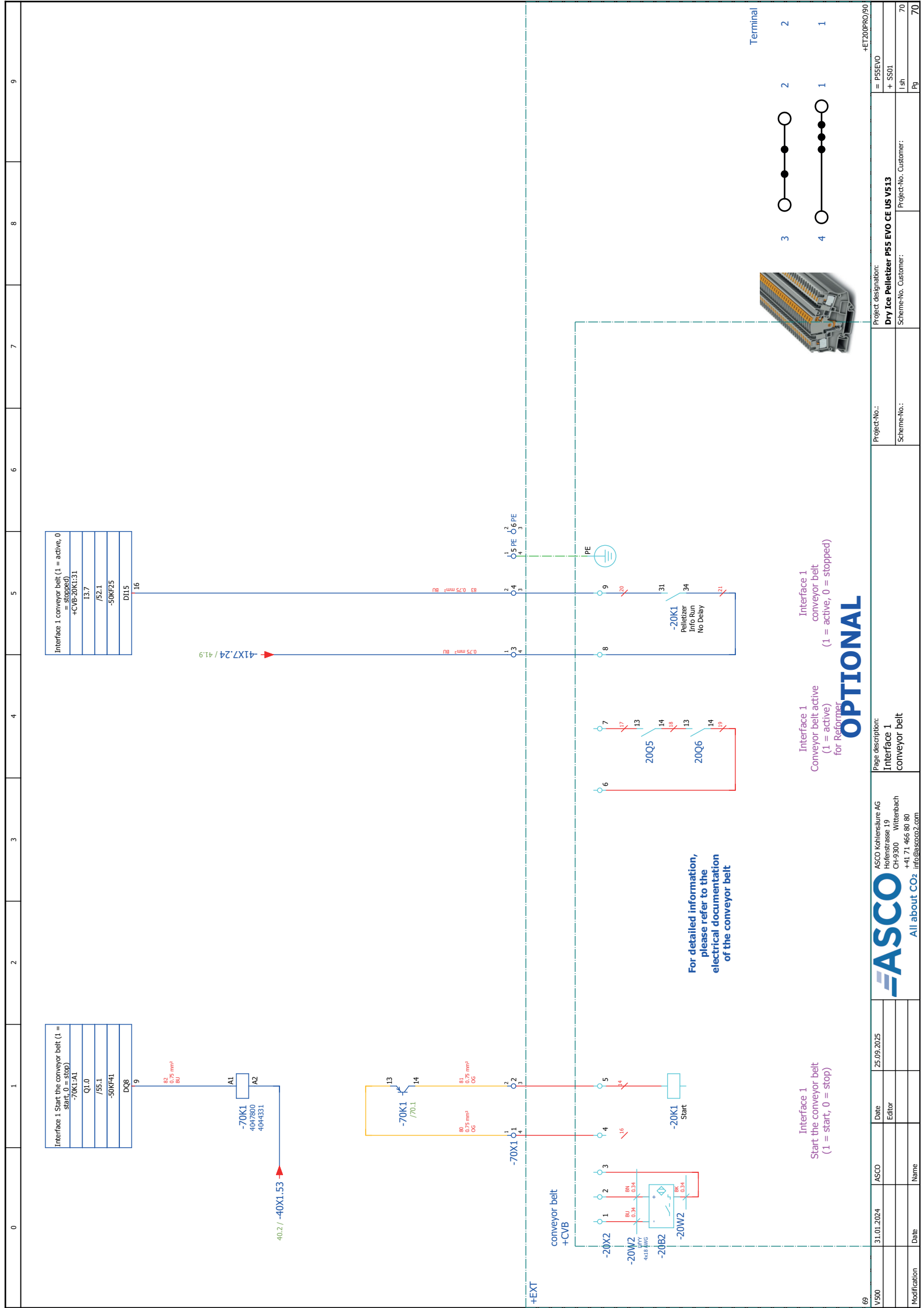
-41X7.12 / 41.8

ASCO
All about CO2

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

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

31.01.2024	ASCO	25.09.2025	Date	Editor	Page description: Interface 1 ASCO CO2 detector	Project-No.: Dry Ice Pelletizer P55 EVO CE US V51.3	Machine reports without stop	Machine reports without stop	Machine reports without stop	70
			Date	Name	ASCO Kohlewerks AG Hafenstraße 19 CH-9300 Wittenbach +41 71 466 80 80 info@asco2.com	Scheme-No.: Customer:				69
			Date	Name		Scheme-No.: Customer:				69



Interface 1 conveyor belt (1 = active, 0 = stopped)	
+CIB-20K1.531	
13.7	
/52.1	
-50KF25	
D115	
116	

Interface 1 Start the conveyor belt (1 = start, 0 = stop)	
-70K1.A1	
Q1.0	
/55.1	
-50KF41	
DQ8	
9	

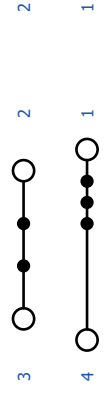
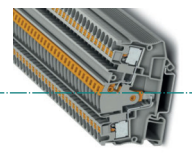
-41X7.24 / 41.9

-40.2 / -40X1.53

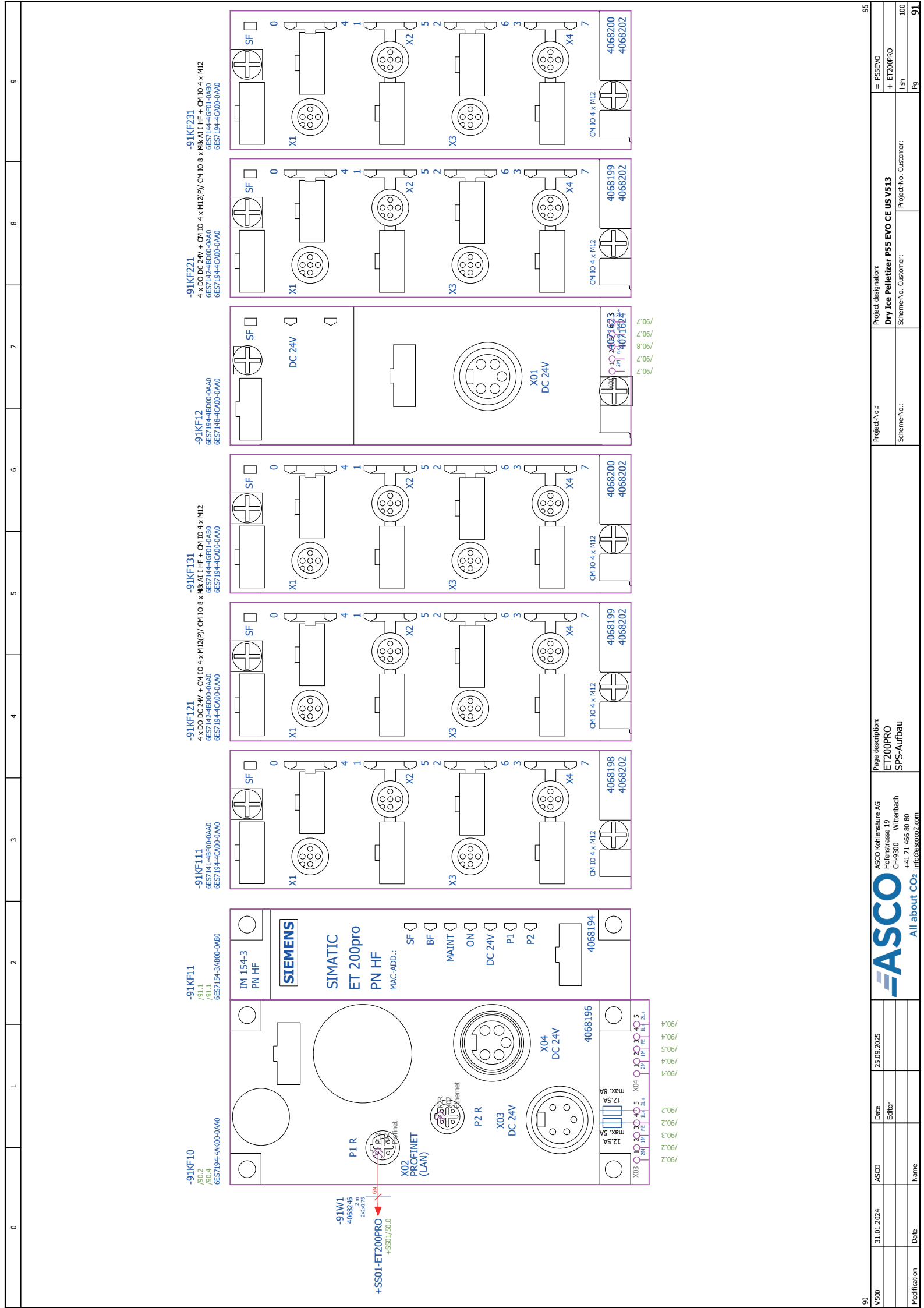
For detailed information, please refer to the electrical documentation of the conveyor belt

Interface 1
Conveyor belt active
(1 = active, 0 = stopped)
for Reformer

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



OPTIONAL



-91KF10
/90.2
/90.4
4068246
2x2x0.75
6E57194-4AK00-0AA0

-91KF11
/91.1
/91.1
IM 154-3
PN HF
6E57154-3AB00-0AB0

-91KF111
6E57141-4BF00-0AA0
6E57194-4CA00-0AA0

-91KF121
4 x DO DC 24V + CM IO 4 x M12(P)/CM IO 8 x M12(P)
6E57142-4BD00-0AA0
6E57194-4CA00-0AA0

-91KF131
4 x DO DC 24V + CM IO 4 x M12(P)/CM IO 8 x M12(P)
6E57144-4GF01-0AB0
6E57194-4CA00-0AA0

-91KF12
6E57194-4BD00-0AA0
6E57144-4GF01-0AB0
6E57194-4CA00-0AA0

-91KF221
4 x DO DC 24V + CM IO 4 x M12(P)/CM IO 8 x M12(P)
6E57142-4BD00-0AA0
6E57194-4CA00-0AA0

-91KF231
4 x DO DC 24V + CM IO 4 x M12(P)/CM IO 8 x M12(P)
6E57144-4GF01-0AB0
6E57194-4CA00-0AA0

+SS01-ET200PRO
+SS01/50.0

X03 12.5A
X04 12.5A
Max. 8A
X01 12.5A
X02 12.5A

4068198
4068202

4068199
4068202

4068200
4068202

4068199
4068202

4068200
4068202

/90.2 /90.2 /90.2 /90.4 /90.4 /90.4 /90.5 /90.4 /90.4 /90.4

4068198
4068202

4068199
4068202

4068200
4068202

4068199
4068202

4068200
4068202

Modification	Date	Name

ASCO	31.01.2024	Date
		Editor

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info@ascoc2.com

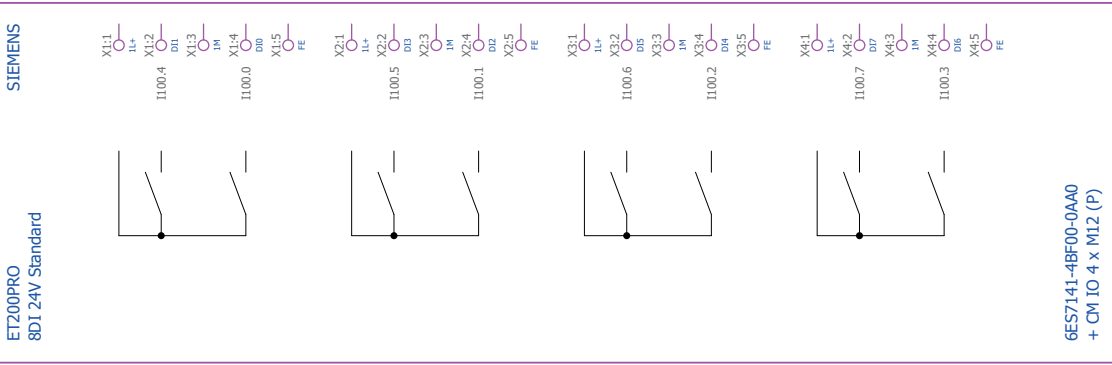
Page description:
ET200PRO
SPS-Aufbau

Project-No.:
Scheme-No.: Customer:

Project designation:
Dry Ice Pelletizer PSS EVO CE US V5.13
Project-No. Customer:

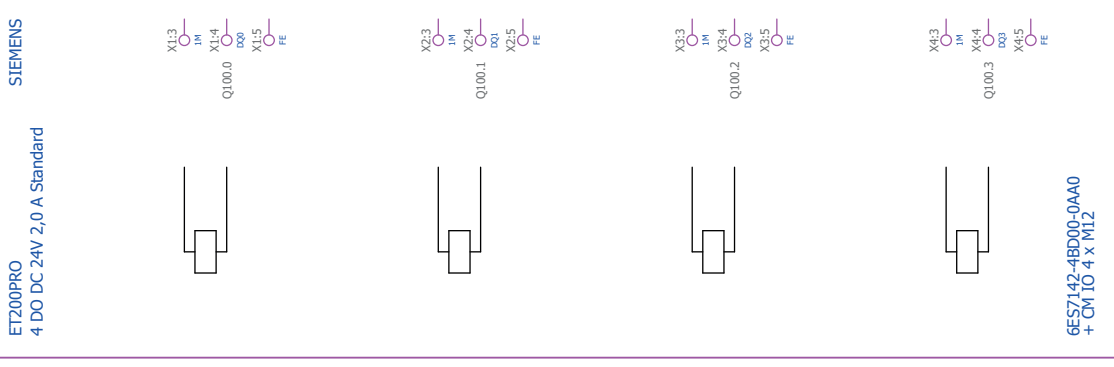
P5EVO	= P5EVO
	+ ET200PRO
	1 sh
	Pg

-91KF111
/91.3
6E57141-4BF00-0AA0
6E57194-4CA00-0AA0



91	0	1	2	3	4	5	6	7	8	9
V200	31.01.2024	ASCO	Date	25.09.2025	Page description: PLC overview	Project-No.:		Project designation: Dry Ice Pelletzer P55 EVO CE US V513	= P5EVO + ET200PRO	95
Modification	Date	Name	Editor		Scheme-No.:		Project-No. Customer:		1 sh Pg	
				ASCO Kohlestaube AG Hohenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 info@asco2.com		All about CO2				

-91KF121
/91.4
6E57142-4BD00-0AA0
6E57194-4CA00-0AA0



Plant part 1 CO2 valve 1
Plant part 1 CO2 valve 1
Plant part 1 CO2 valve 1

Plant part 1 CO2 valve 2
Plant part 1 CO2 valve 2
Plant part 1 CO2 valve 2

Plant part 1 valve forward
Plant part 1 valve forward
Plant part 1 valve forward

Plant part 1 valve backward
Plant part 1 valve backward
Plant part 1 valve backward

+TELL1/130.1
+TELL1/130.1 +TELL1-130X1
+TELL1/130.1

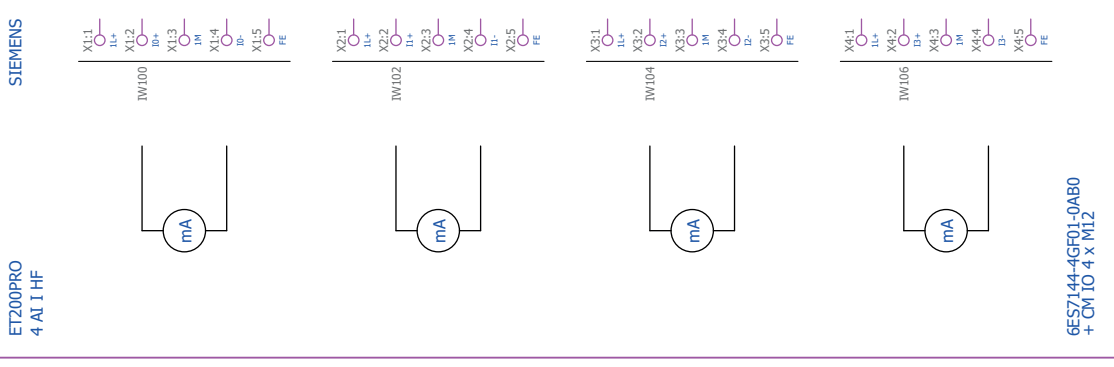
+TELL1/130.3
+TELL1/130.3 +TELL1-130X3
+TELL1/130.3

+TELL1/130.6
+TELL1/130.6 +TELL1-130Y5:A1
+TELL1/130.6

+TELL1/130.8
+TELL1/130.8 +TELL1-130Y7:A1
+TELL1/130.8

6E57142-4BD00-0AA0
+ CM TO 4 x M12

-91KF131
/91.5
6E57144-4GF01-0A80
6E57194-4CA00-0AA0



6E57144-4GF01-0A80
+ CM TO 4 x M12

Plant part 1 linear measurement
Plant part 1 linear measurement
Plant part 1 linear measurement
Plant part 1 linear measurement
Plant part 1 linear measurement

Plant part 1 pressure measurement hydraulic
Plant part 1 pressure measurement hydraulic
Plant part 1 pressure measurement hydraulic
Plant part 1 pressure measurement hydraulic
Plant part 1 and 2 Pressure measurement CO2

Plant part 1 and 2 Pressure measurement CO2
Plant part 1 and 2 Pressure measurement CO2
Plant part 1 and 2 Pressure measurement CO2
Plant part 1 and 2 Pressure measurement CO2
Plant part 1 and 2 Pressure measurement CO2

Plant part 1 and 2 Hydraulic oil temperature
Plant part 1 and 2 Hydraulic oil temperature
Plant part 1 and 2 Hydraulic oil temperature
Plant part 1 and 2 Hydraulic oil temperature
Plant part 1 and 2 Hydraulic oil temperature

+TELL1/120.1
+TELL1/120.1 +TELL-120B1:5
+TELL1/120.1
+TELL1/120.1
+TELL1/120.2

+TELL1/120.5
+TELL1/120.5 +TELL-120B5:3
+TELL1/120.5
+TELL1/120.5
+TELL1/120.6

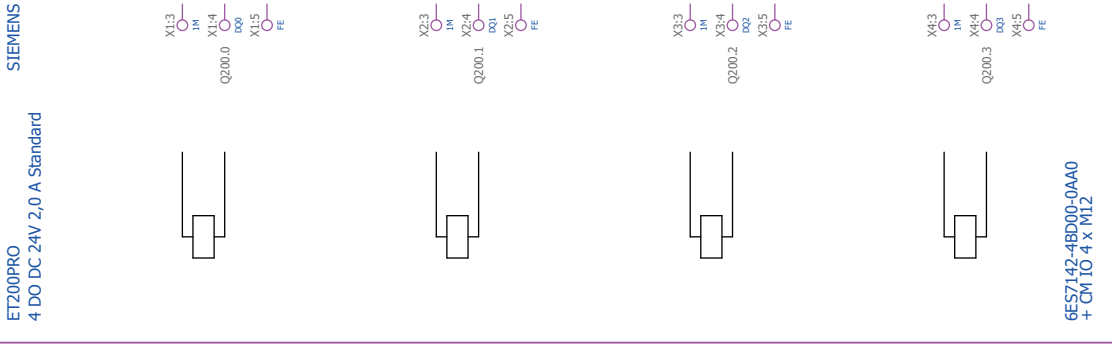
+TELL1/120.7
+TELL1/120.7 +TELL-120B7:2
+TELL1/120.7
+TELL1/120.7
+TELL1/120.8

+HYD/110.8
+HYD/110.8 +HYD-110B9:3
+HYD/110.8
+HYD/110.8
+HYD/110.9

0	1	2	3	4	5	6	7	8	9	
<p style="text-align: center;">  ASCO All about CO₂ info@asco2z.com </p>										
V200	31.01.2024	ASCO	25.09.2025	Date	Page description: PLC Overview					Project-No.:
				Editor	ASCO Kohlewerke AG Höfenerstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 info@asco2z.com					Project designation: Dry Ice Pelletizer P55 EYO CE US V513
Modification	Date	Name							Project-No. Customer: Pg	
									= P55EVO + ET200PRO 1 sh Pg	

-91KF221
/91.7
6E57142-4BD00-0AA0
6E57194-4CA00-0AA0

ET200PRO
4 DO DC 24V 2,0 A Standard



Plant part 2 CO2 valve 1
Plant part 2 CO2 valve 1
Plant part 2 CO2 valve 1

+TEIL2/230.1
+TEIL2/230.1 +TEIL2-230X1
+TEIL2/230.1

Plant part 2 CO2 valve 2
Plant part 2 CO2 valve 2
Plant part 2 CO2 valve 2

+TEIL2/230.3
+TEIL2/230.3 +TEIL2-230X3
+TEIL2/230.3

Plant part 2 valve forward
Plant part 2 valve forward
Plant part 2 valve forward

+TEIL2/230.6
+TEIL2/230.6 +TEIL2-230Y5:A1
+TEIL2/230.6

Plant part 2 valve backward
Plant part 2 valve backward
Plant part 2 valve backward

+TEIL2/230.8
+TEIL2/230.8 +TEIL2-230Y7:A1
+TEIL2/230.8

Modification	Date	Name

V200	31.01.2024	ASCO	Date	25.09.2025
			Editor	

ASCO
All about CO2 info@ascoc2.com

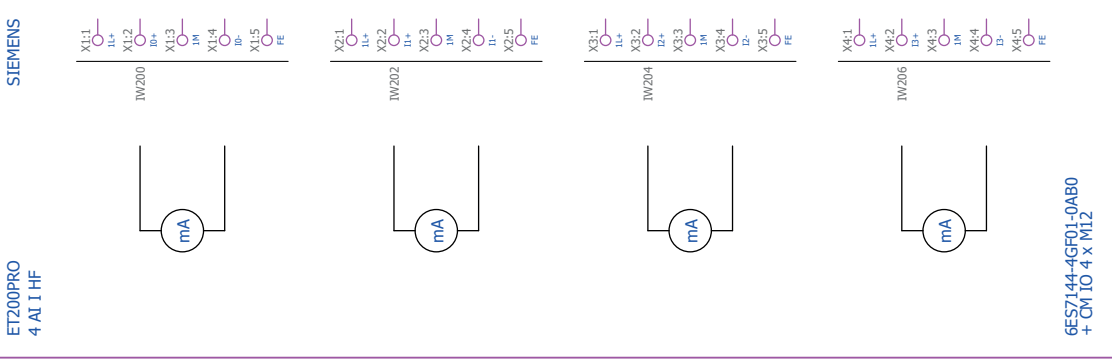
ASCO Kohlewerks AG
Höbenstraße 19
CH-9300 Wittenbach
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Page description:
PLC overview

Project-No.:
Scheme-No. Customer:

Project designation:
Dry Ice Pelletizer PSS EYO CE US V5.13
Project-No. Customer:

-91KF231
/91.9
6E57144-4GF01-0A80
6E57194-4CA00-0AA0



Plant part 2 linear measurement
Plant part 2 linear measurement
Plant part 2 linear measurement
Plant part 2 linear measurement
Plant part 2 linear measurement

Plant part 2 pressure measurement hydraulic
Plant part 2 pressure measurement hydraulic
Plant part 2 pressure measurement hydraulic
Plant part 2 pressure measurement hydraulic
Plant part 2 pressure measurement hydraulic

+TELU2/220.1
+TELU2/220.1 +TELU2-220B1:5
+TELU2/220.1
+TELU2/220.1
+TELU2/220.2

+TELU2/220.5
+TELU2/220.5 +TELU2-220B5:3
+TELU2/220.5
+TELU2/220.5
+TELU2/220.6

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

+ETZ00PRO

Plant part 1 and 2 Oil level	Plant part 1 and 2 Oil level
-110B1.3	I100.4
+ETZ00PRO/95.1	+ETZ00PRO/95.1
-9IKF111	
1L+ 1M D10 FE D11	
X1 1 3 4 5	D11 2

SPARE	SPARE
I100.1	I100.5
+ETZ00PRO/95.1	+ETZ00PRO/95.1
-9IKF111	
1L+ 1M D12 FE D13	
X2 1 3 4 5	D13 2

Plant part 1 and 2 Hydraulic oil temperature	Plant part 1 and 2 Hydraulic oil temperature
-110B9.3	
+ETZ00PRO/97.1	+ETZ00PRO/97.1
-9IKF131	
1L+ 1M I3+ I3-	
X4 1 3 2 4 5	FE 5

Plant part 1 and 2
Oil level

Plant part 1 and 2
Hydraulic oil temperature

SPARE

Plant part 1 and 2
Oil level

+ETZ00PRO/100

V200	31.01.2024	ASCO	25.09.2025	Date
				Editor

Page description:
Plant part 1
Sensors

Project-No.:

Project designation:
Dry Ice Pelletizer PSS EVO CE US V5.13

Project-No. Customer:
Scheme-No. Customer:

+TEIL1/120

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info@asco2.com

Project-No. Customer:

Project designation:
Dry Ice Pelletizer PSS EVO CE US V5.13

Project-No. Customer:
Scheme-No. Customer:

+TEIL1/120

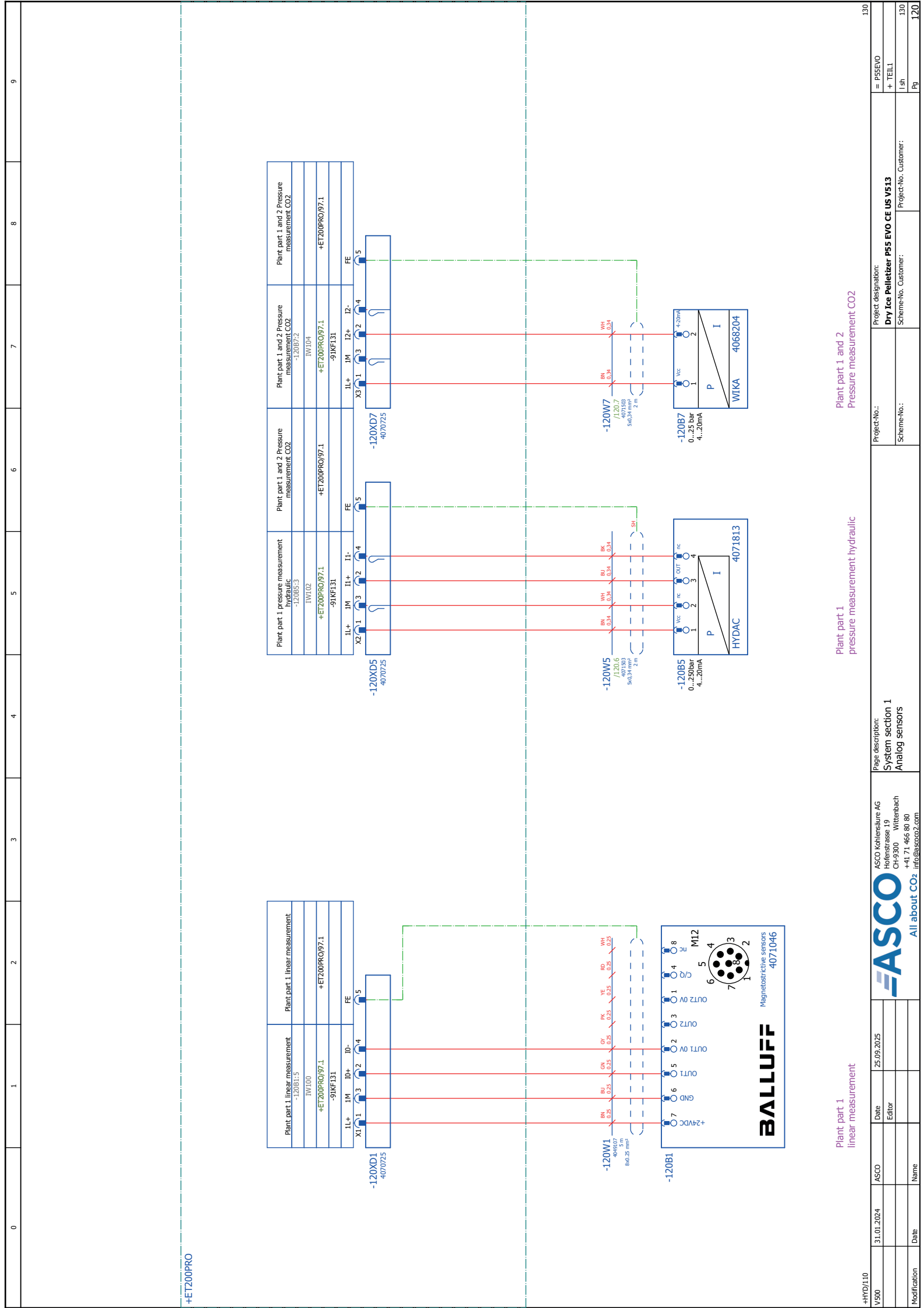
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Hafenstrasse 19
CH-9300 Wittenbach
+41 71 466 80 80
info@asco2.com

Project-No. Customer:

Project designation:
Dry Ice Pelletizer PSS EVO CE US V5.13

Project-No. Customer:
Scheme-No. Customer:

+TEIL1/120

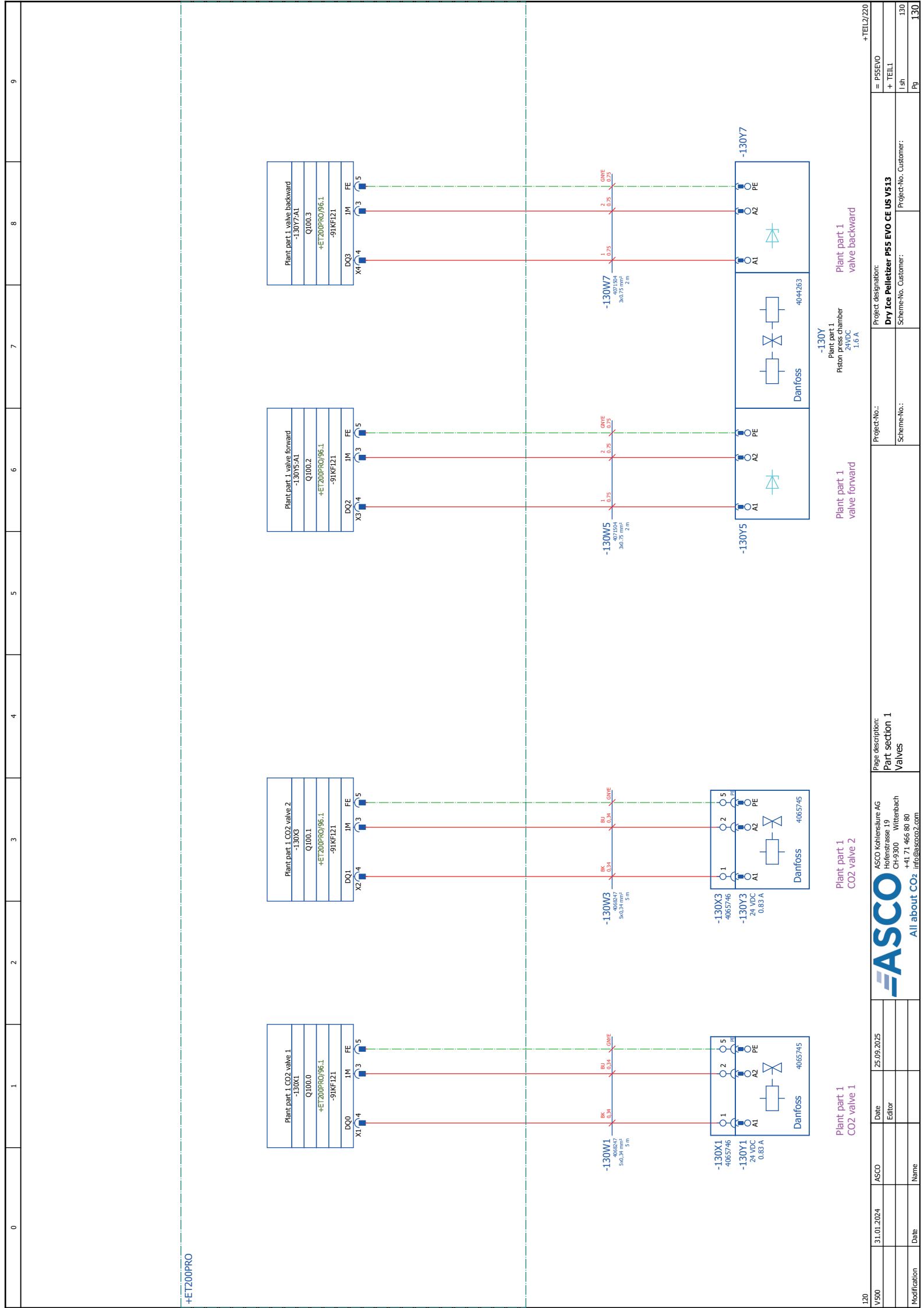


+ET200PRO

Plant part 1
linear measurement

Plant part 1
pressure measurement hydraulic

Plant part 1 and 2
Pressure measurement CO2



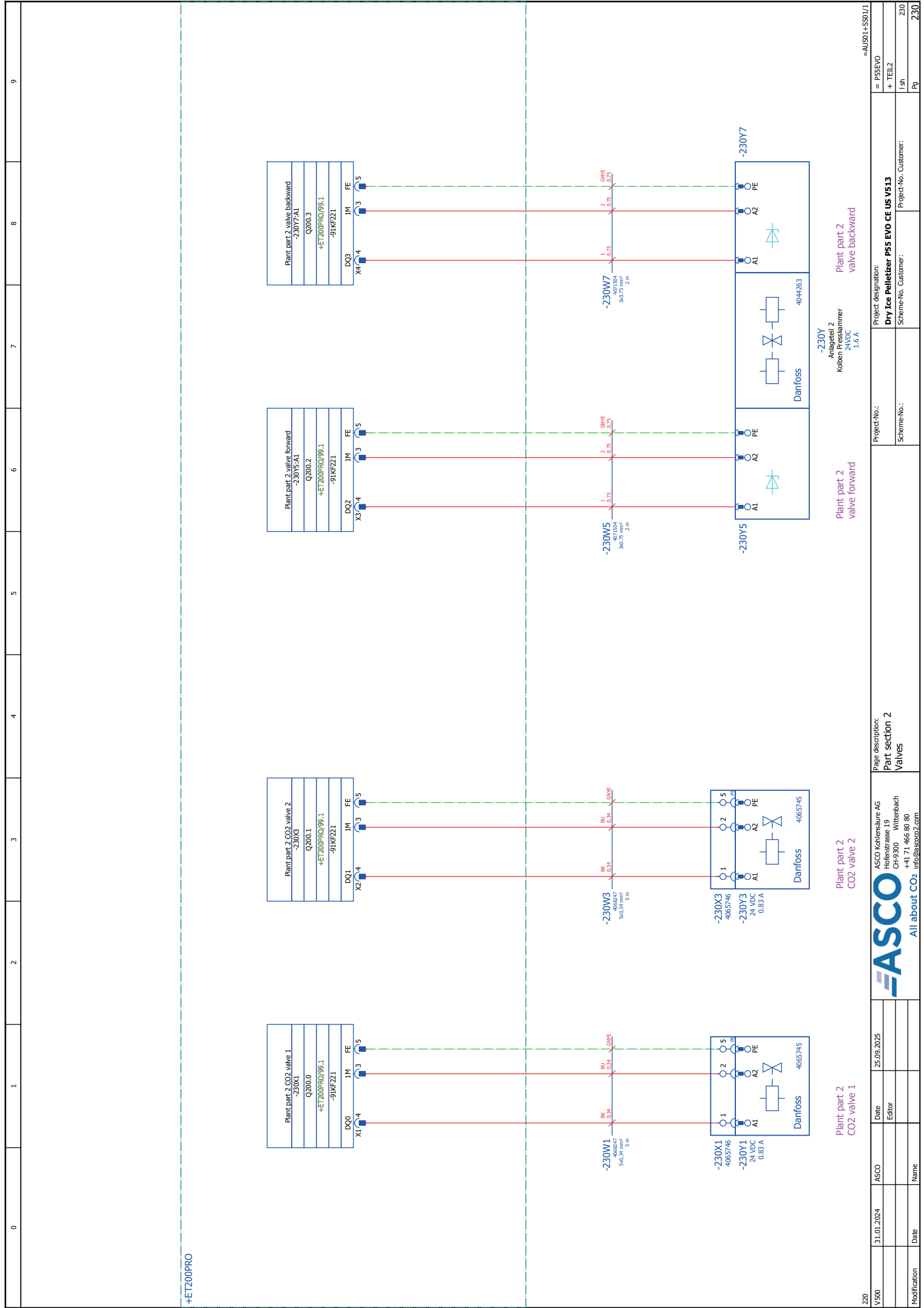
+ETZ00PRO

Modification	Date	Name

ASCO	25.09.2025	Date
		Editor
Page description: Part section 1 Valves		

Project-No.: Scheme-No.:		
Project designation: Dry Ice Pelletizer PSS EVO CE US V5.13 Project-No. Customer:		

Project-No.: Scheme-No.:		
Project designation: Dry Ice Pelletizer PSS EVO CE US V5.13 Project-No. Customer:		
= PSEVO + TELL1		Pg 130



+ETZ00PRO

Plant part 2
CO2 valve 1

Plant part 2
CO2 valve 2

Plant part 2
valve forward

Plant part 2
valve backward

Parts list

Plant	Mounting location	Device	Quantity	Designation	Manufacturer	Part number	Page	Remarks
=P55EVO	+SS01	-10PE1	0				10	
=P55EVO	+SS01	-10Q5	1	CONTACTOR,AC3:18,5KW 1NO+1NC DC24V,UPRIG	Siemens	4071506	10	
=P55EVO	+SS01	-10Q5	1	SURGE SUPPRESSOR, VARIATOR,	Siemens	5003606	10	
=P55EVO	+SS01	-10Q5	1	AUX. SWITCH BLOCK , 4NO COND. PATHS: 1NO, 1NO,	Siemens	4065519	10	
=P55EVO	+SS01	-10Q6	1	CONTACTOR,AC3:18,5KW 1NO+1NC DC24V,UPRIG	Siemens	4071506	10	
=P55EVO	+SS01	-10Q6	1	SURGE SUPPRESSOR, VARIATOR,	Siemens	5003606	10	
=P55EVO	+SS01	-10Q6	1	AUX. SWITCH BLOCK , 4NO COND. PATHS: 1NO, 1NO,	Siemens	4065519	10	
=P55EVO	+SS01	-10X1	1	End bracket for terminal block	WAGO	4067670		
=P55EVO	+SS01	-10X1	1	End and partition plate for terminal block	Phoenix Contact	5003672		
=P55EVO	+SS01	-10X1	0				6.4	
=P55EVO	+SS01	-10X1	1	Ground terminal block	Phoenix Contact	4070105	10	
=P55EVO	+SS01	-10X1	1	End and partition plate for terminal block	Phoenix Contact	4070104	10	
=P55EVO	+SS01	-10X1	3	Ground terminal block	Phoenix Contact	5003671	10	
=P55EVO	+SS01	-10XD0	1	3-PHASE INFEED TERMINAL SZ 50/S00	Siemens	5003622	10	
=P55EVO	+SS01	-10XD3	1	Verdrahtungsbaustein unten für Schutzkombination Baugröße S0	Siemens	4071480	10	
=P55EVO	+SS01	-15Q1	1	CIRCUIT-BREAKER SCREW CONNECTION 12.5A	Siemens	4044259	15	
=P55EVO	+SS01	-15Q1	1	TRANSVERSE AUX. SWITCH, 1NO+1NC, SCREW CONNECTION	Siemens	4064461	15	
=P55EVO	+SS01	-15Q2	1	SIRIUS SANFTSTARTER, S00,12.5A, 5,5KW/400V, 40GRAD, AC 200-480V, AC/DC 24V	Siemens	4070899	15	
=P55EVO	+SS01	-15X1	1	End bracket for terminal block	WAGO	4067670		
=P55EVO	+SS01	-15X1	1	End and partition plate for terminal block	Phoenix Contact	5003670		
=P55EVO	+SS01	-15X1	0				6.4	
=P55EVO	+SS01	-15X1	1	Multi-level terminal block	Phoenix Contact	5003669	15	
=P55EVO	+SS01	-15XD0	1	3-PHASE INFEED TERMINAL SZ 50/S00	Siemens	5003622	15	
=P55EVO	+SS01	-15XD1	1	LINK MODULE 3RV2.1-3RT2.1-3RV2.2-3RT2.2	Siemens	5003673	15	
=P55EVO	+SS01	-15XD6	1	3-PHASE BUSBARS	Siemens	5003732	15	
=P55EVO	+SS01	-16Q1	1	CIRCUIT-BREAKER SCREW CONNECTION 0.32A	Siemens	4071000	16	
=P55EVO	+SS01	-16Q1	1	TRANSVERSE AUX. SWITCH, 1NO+1NC, SCREW CONNECTION	Siemens	4064461	16	
=P55EVO	+SS01	-16Q5	1	CONTACTOR,AC3:3KW 1NC DC24V	Siemens	4070997	16	

Parts list

Plant	Mounting location	Device	Quantity	Designation	Manufacturer	Part number	Page	Remarks
=P55EVO	+SS01	-16Q5	1	SURGE SUPPRESSOR, VARISTOR,	Siemens	4044411	16	
=P55EVO	+SS01	-16X1	1	End bracket for terminal block	WAGO	4067670		
=P55EVO	+SS01	-16X1	1	End and partition plate for terminal block	Phoenix Contact	5003670		
=P55EVO	+SS01	-16X1	0				6.4	
=P55EVO	+SS01	-16X1	1	Multi-level terminal block	Phoenix Contact	5003669	16	
=P55EVO	+SS01	-16X1	1	Feed-through terminal block	Phoenix Contact	4067865	16	
=P55EVO	+SS01	-16XD1	1	LINK MODULE F.3RV 500/50, 3RT S00	Siemens	4065520	16	
=P55EVO	+SS01	-25Q1	1	CIRCUIT-BREAKER SCREW CONNECTION 12.5A	Siemens	4044259	25	
=P55EVO	+SS01	-25Q1	1	TRANSVERSE AUX. SWITCH, 1NO+1NC, SCREW CONNECTION	Siemens	4064461	25	
=P55EVO	+SS01	-25Q2	1	SIRIUS SANFTSTARTER, S00,12.5A, 5,5KW/400V, 40GRAD, AC 200-480V, AC/DC 24V	Siemens	4070899	25	
=P55EVO	+SS01	-25X1	1	End bracket for terminal block	WAGO	4067670		
=P55EVO	+SS01	-25X1	1	End and partition plate for terminal block	Phoenix Contact	5003670		
=P55EVO	+SS01	-25X1	0				6.4	
=P55EVO	+SS01	-25X1	1	Multi-level terminal block	Phoenix Contact	5003669	25	
=P55EVO	+SS01	-25XD1	1	LINK MODULE 3RV2.1-3RT2.1-3RV2.2-3RT2.2	Siemens	5003673	25	
=P55EVO	+SS01	-26Q1	1	CIRCUIT-BREAKER SCREW CONNECTION 0.32A	Siemens	4071000	26	
=P55EVO	+SS01	-26Q1	1	TRANSVERSE AUX. SWITCH, 1NO+1NC, SCREW CONNECTION	Siemens	4064461	26	
=P55EVO	+SS01	-26Q5	1	CONTACTOR,AC:3KW 1NC DC24V	Siemens	4070997	26	
=P55EVO	+SS01	-26Q5	1	SURGE SUPPRESSOR, VARISTOR,	Siemens	4044411	26	
=P55EVO	+SS01	-26X1	1	End bracket for terminal block	WAGO	4067670		
=P55EVO	+SS01	-26X1	1	End and partition plate for terminal block	Phoenix Contact	5003670		
=P55EVO	+SS01	-26X1	0				6.4	
=P55EVO	+SS01	-26X1	1	Multi-level terminal block	Phoenix Contact	5003669	26	
=P55EVO	+SS01	-26X1	1	Feed-through terminal block	Phoenix Contact	4067865	26	
=P55EVO	+SS01	-26XD1	1	LINK MODULE F.3RV 500/50, 3RT S00	Siemens	4065520	26	
=P55EVO	+SS01	-40F1	1	CIRCUIT BREAKER 10kA, 3POLE, C, 6A	Siemens	4068673	40	
=P55EVO	+SS01	-40G1	1	Stromversorgung, 3-phasis	Lütze	4068174	40	
=P55EVO	+SS01	-40X1	1	End and partition plate for terminal block	Phoenix Contact	4067867	40	

Parts list

Plant	Mounting location	Device	Quantity	Designation	Manufacturer	Part number	Page	Remarks
=P55EVO	+SS01	-40X1	0				6.4	
=P55EVO	+SS01	-40X1	9	Feed-through terminal block	Phoenix Contact	4070909	40	
=P55EVO	+SS01	-40XT5	1	End bracket for terminal block	WAGO	4067670		
=P55EVO	+SS01	-40XT5	1	End and partition plate for terminal block	Phoenix Contact	4070910		
=P55EVO	+SS01	-40XT5	1	End and partition plate for terminal block	Phoenix Contact	5003672		
=P55EVO	+SS01	-40XT5	0				6.4	
=P55EVO	+SS01	-40XT5	1	Disconnect and test disconnect rail-mount terminal block	Phoenix Contact	4070911	40	
=P55EVO	+SS01	-40XT5	1	Ground terminal block	Phoenix Contact	5003671	40	
=P55EVO	+SS01	-41F1	1	Electronic device circuit breaker	Phoenix Contact	4065857	41	
=P55EVO	+SS01	-41F3	1	Electronic device circuit breaker	Phoenix Contact	4065857	41	
=P55EVO	+SS01	-41F5	1	Electronic device circuit breaker	Phoenix Contact	4065857	41	
=P55EVO	+SS01	-41F6	1	Electronic device circuit breaker	Phoenix Contact	4065857	41	
=P55EVO	+SS01	-41F7	1	Electronic device circuit breaker	Phoenix Contact	4065857	41	
=P55EVO	+SS01	-41U0	1	Cross-connector for terminal block	Phoenix Contact	4071001		
=P55EVO	+SS01	-41X1	1	End bracket for terminal block	WAGO	4067670	41	
=P55EVO	+SS01	-41X1	1	End and partition plate for terminal block	Phoenix Contact	4067867	41	
=P55EVO	+SS01	-41X1	1	Cross-connector for terminal block	Phoenix Contact	4070908	41	
=P55EVO	+SS01	-41X1	0				6.4	
=P55EVO	+SS01	-41X1	3	Feed-through terminal block	Phoenix Contact	4070909	41	
=P55EVO	+SS01	-41X3	1	End and partition plate for terminal block	Phoenix Contact	4067867	41	
=P55EVO	+SS01	-41X3	1	Cross-connector for terminal block	Phoenix Contact	4070908	41	
=P55EVO	+SS01	-41X3	0				6.4	
=P55EVO	+SS01	-41X3	4	Feed-through terminal block	Phoenix Contact	4070909	41	
=P55EVO	+SS01	-41X5	1	End and partition plate for terminal block	Phoenix Contact	4067867	41	
=P55EVO	+SS01	-41X5	1	Cross-connector for terminal block	Phoenix Contact	4070908	41	
=P55EVO	+SS01	-41X5	0				6.4	
=P55EVO	+SS01	-41X5	2	Feed-through terminal block	Phoenix Contact	4070909	41	
=P55EVO	+SS01	-41X6	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
=P55EVO	+SS01	-41X6	1	Cross-connector for terminal block	Phoenix Contact	4070908	41	
=P55EVO	+SS01	-41X6	0				6.4	
=P55EVO	+SS01	-41X6	3	Feed-through terminal block	Phoenix Contact	4070909	41	
=P55EVO	+SS01	-41X7	1	End and partition plate for terminal block	Phoenix Contact	4067867	41	
=P55EVO	+SS01	-41X7	1	Cross-connector for terminal block	Phoenix Contact	4070908	41	
=P55EVO	+SS01	-41X7	0				6.4	
=P55EVO	+SS01	-41X7	3	Feed-through terminal block	Phoenix Contact	4070909	41	
=P55EVO	+SS01	-50A2	1	ET 200SP, BA 2XRJ45	Siemens	4068181	50	
=P55EVO	+SS01	-50A3	1	SIMATIC S7 Memory card 24 MB For S7-1x00 CPU	Siemens	4068182	50	
=P55EVO	+SS01	-50KF11	1	CPU 1512SP F-1 PN, 600KB Prog., 2MB Data	Siemens	4068180	50	
=P55EVO	+SS01	-50KF11	1	ET200SP, SERVERMODULE	Siemens		50	
=P55EVO	+SS01	-50KF21	1	SIMATIC ET 200SP DI 16x 24V DC ST, PU 1	Siemens	4070341	50	
=P55EVO	+SS01	-50KF21	1	SIMATIC ET 200SP BU type A0 BU15-P16+A0+2D	Siemens	4068190	50	
=P55EVO	+SS01	-50KF25	1	SIMATIC ET 200SP DI 16x 24V DC ST, PU 1	Siemens	4070341	50	
=P55EVO	+SS01	-50KF25	1	SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B	Siemens	4068191	50	
=P55EVO	+SS01	-50KF32	1	SIMATIC ET 200SP AI 4xI 2/(4-wire ST	Siemens	4070340	50	
=P55EVO	+SS01	-50KF32	1	SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B	Siemens	4068191	50	
=P55EVO	+SS01	-50KF41	1	SIMATIC ET 200SP DQ 16x24VDC/0.5 A ST	Siemens	4070342	50	
=P55EVO	+SS01	-50KF41	1	SIMATIC ET 200SP BU type A0 BU15-P16+A0+2D	Siemens	4068190	50	
=P55EVO	+SS01	-50KF51	1	SIMATIC ET 200SP F-PM-E 24 V DC/8 A PPM ST	Siemens	4068188	50	
=P55EVO	+SS01	-50KF51	1	SIMATIC ET 200SP BU type C0 BU20-P6+I2+4D PU 1	Siemens	4068193	50	
=P55EVO	+SS01	-50KF52	1	SIMATIC ET 200SP DQ 8x24VDC/0.5A ST	Siemens	4068185	50	
=P55EVO	+SS01	-50KF52	1	SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B	Siemens	4068191	50	
=P55EVO	+SS01	-60V2	1	Patch-Kabel LAN RJ45	GIGAMEDIA	4067623	60	
=P55EVO	+SS01	-61TF6	0				61	
=P55EVO	+SS01	-61TF8	0				61	
=P55EVO	+SS01	-61U7	1	Fernwartungsmodul	EWON	4066996	61	
=P55EVO	+SS01	-61U7	1	GSM Modul für Fernwartung	EWON	4070388_1	61	

Parts list

Plant	Mounting location	Device	Quantity	Designation	Manufacturer	Part number	Page	Remarks
=P55EVO	+SS01	-61U7	1	WLAN module for remote maintenance	EWON	4066997	61	
=P55EVO	+SS01	-61W5	1	Patch-Kabel LAN RJ45	GIGAMEDIA	4067312	61	
=P55EVO	+SS01	-61W6	1	Kabel zur WLAN Antenne 2m	EWON	4067196	61	
=P55EVO	+SS01	-61W8	1	Kabel zur 4G Antenne 3m	EWON		61	
=P55EVO	+SS01	-63W2.1	1	Assembled sensor actuator-line	Murrelektronik	4071269	63	
=P55EVO	+SS01	-63X2	0				63	
=P55EVO	+SS01	-65X1	1	End bracket for terminal block	WAGO	4067670		
=P55EVO	+SS01	-65X1	2	End and partition plate for terminal block	Phoenix Contact	4067867		
=P55EVO	+SS01	-65X1	0				6.4	
=P55EVO	+SS01	-65X1	4	Feed-through terminal block	Phoenix Contact	4067865	65	
=P55EVO	+SS01	-65X1	1	Ground terminal block	Phoenix Contact	4067866	65	
=P55EVO	+SS01	-66X1	1	End bracket for terminal block	WAGO	4067670		
=P55EVO	+SS01	-66X1	1	End and partition plate for terminal block	Phoenix Contact	4067867		
=P55EVO	+SS01	-66X1	0				6.4	
=P55EVO	+SS01	-66X1	8	Feed-through terminal block	Phoenix Contact	4067865	66;67	
=P55EVO	+SS01	-66X1	1	Ground terminal block	Phoenix Contact	4067866	67	
=P55EVO	+SS01	-67K1	1	Solid State Relay type, 1 NO, 2A, 240VAC	Finder	4047800	67	
=P55EVO	+SS01	-67K1	1	Socket, 12...24VDC, 1 Pole 6A, screw terminal	Finder	4044331	67	
=P55EVO	+SS01	-67K2	1	Solid State Relay type, 1 NO, 2A, 240VAC	Finder	4047800	67	
=P55EVO	+SS01	-67K2	1	Socket, 12...24VDC, 1 Pole 6A, screw terminal	Finder	4044331	67	
=P55EVO	+SS01	-67K3	1	Solid State Relay type, 1 NO, 2A, 240VAC	Finder	4047800	67	
=P55EVO	+SS01	-67K3	1	Socket, 12...24VDC, 1 Pole 6A, screw terminal	Finder	4044331	67	
=P55EVO	+SS01	-67K4	1	Solid State Relay type, 1 NO, 2A, 240VAC	Finder	4047800	67	
=P55EVO	+SS01	-67K4	1	Socket, 12...24VDC, 1 Pole 6A, screw terminal	Finder	4044331	67	
=P55EVO	+SS01	-68T1	1	Signal conditioner	Phoenix Contact	4070902	68	
=P55EVO	+SS01	-68W1.1	1	UL approved PVC Electronic cable LTY(C)Y (3x0,34) GY	Lütze	5003040	68	
=P55EVO	+SS01	-68W1.2	1	UL approved PVC Electronic cable LTY(C)Y (3x0,34) GY	Lütze	5003040	68	
=P55EVO	+SS01	-68X1	1	End and partition plate for terminal block	Phoenix Contact	4067867		











Parts list

Plant	Mounting location	Device	Quantity	Designation	Manufacturer	Part number	Page	Remarks
=P55EVO	+SS01	-68X1	1	Feed-through terminal block	Phoenix Contact	4067865	68	
=P55EVO	+SS01	-68X1	1	Ground terminal block	Phoenix Contact	4067866	68	
=P55EVO	+SS01	-69SH2	1	Shield connection terminal	Weidmueller	4047811	69	
=P55EVO	+SS01	-69W3	1	UL approved PVC Electronic cable LTY(C)Y (3x0,34) GY	Lütze	5003040	69	
=P55EVO	+SS01	-69X1	1	End bracket for terminal block	WAGO	4067670		
=P55EVO	+SS01	-69X1	1	End and partition plate for terminal block	Phoenix Contact	4067867		
=P55EVO	+SS01	-69X1	0				6.4	
=P55EVO	+SS01	-69X1	4	Feed-through terminal block	Phoenix Contact	4067865	69	
=P55EVO	+SS01	-69X1	1	Ground terminal block	Phoenix Contact	4067866	69	
=P55EVO	+SS01	-70K1	1	Solid State Relay type, 1 NO, 2A, 240VAC	Finder	4047800	70	
=P55EVO	+SS01	-70K1	1	Socket, 12...24VDC, 1 Pole 6A, screw terminal	Finder	4044331	70	
=P55EVO	+SS01	-70X1	1	End bracket for terminal block	WAGO	4067670		
=P55EVO	+SS01	-70X1	1	End and partition plate for terminal block	Phoenix Contact	4067867		
=P55EVO	+SS01	-70X1	0				6.4	
=P55EVO	+SS01	-70X1	2	Feed-through terminal block	Phoenix Contact	4067865	70	
=P55EVO	+SS01	-70X1	1	Ground terminal block	Phoenix Contact	4067866	70	
=P55EVO	+SS01	-91X2	1	End bracket for terminal block	WAGO	4067670		
=P55EVO	+SS01	-91X2	1	End and partition plate for terminal block	Phoenix Contact	4067867		
=P55EVO	+SS01	-91X2	0				6.4	
=P55EVO	+SS01	-91X2	1	Feed-through terminal block	Phoenix Contact	4070909	90	
=P55EVO	+SS01	-91X2	1	Feed-through terminal block	Phoenix Contact	4067865	90	
=P55EVO	+SS01	-91X2	1	Ground terminal block	Phoenix Contact	4067866	90	
=P55EVO	+SS01	-91X7	1	End bracket for terminal block	WAGO	4067670		
=P55EVO	+SS01	-91X7	1	End and partition plate for terminal block	Phoenix Contact	4067867		
=P55EVO	+SS01	-91X7	0				6.4	
=P55EVO	+SS01	-91X7	1	Feed-through terminal block	Phoenix Contact	4070909	90	
=P55EVO	+SS01	-91X7	1	Feed-through terminal block	Phoenix Contact	4067865	90	
=P55EVO	+SS01	-91X7	1	Ground terminal block	Phoenix Contact	4067866	90	









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 For S7-1x00 CPU Memory card			
4068673	1	CIRCUIT BREAKER 10KA, 3POLE, C, 6A ACC. TO UL 489 - 480Y/277V			
4065857	5	Electronic device circuit breaker			
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

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Order number	Quantity	Designation	Type number	Manufacturer	Image
	1	ET200SP, SERVERMODULE SIMATIC DP, ET 200SP			
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	3	SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B BaseUnit			
4070340	1	SIMATIC ET 200SP AI 4x1 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

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Order number	Quantity	Designation	Type number	Manufacturer	Image
4068185	1	SIMATIC ET 200SP DQ 8x24VDC/0.5A ST Digital module output			
	0				
4071506	2	CONTACTOR,AC3:18,5KW 1NO+1NC DC24V,UPRIG 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	2	CIRCUIT-BREAKER SCREW CONNECTION 12.5A SIRIUS Circuit breaker			
4064461	4	TRANSVERSE AUX. SWITCH, 1NO+1NC, SCREW CONNECTION FOR CIRCUIT-BREAKERS, SZ S00/S0			
4070899	2	SIRIUS SANFTSTARTER, S00,12.5A, 5,5KW/400V, 40GRAD, AC 200-480V, AC/DC 24V SIRIUS soft starters for standard applications			







Summarized parts list

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Order number	Quantity	Designation	Type number	Manufacturer	Image
4071000	2	CIRCUIT-BREAKER SCREW CONNECTION 0.32A SIRIUS Circuit breaker			
4070997	2	CONTACTOR,AC3:3KW 1NC DC24V SIRIUS Power contactor			
4044411	2	SURGE SUPPRESSOR, VARISTOR, AC 24...48V, DC 24...70V, F. CONT. RELAYS A. MOTOR CONT. SZ 500,			
4047811	1	Shield connection terminal Shield connection terminal, Pitch, in mm: 14.00, Cable diameter, max.: 8 mm, Steel			
4070902	1	Signal conditioner			
4071001	1	Cross-connector for terminal block Plug-in bridge			
4066996	1	Fernwartungsmodul			
4070388_1	1	GSM Modul für Fernwartung 4G EU			


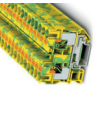

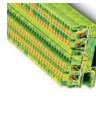




Summarized parts list

ASCO_F02_006

Order number	Quantity	Designation	Type number	Manufacturer	Image
4066997	1	WLAN module for remote maintenance			
4067623	1	Patch-Kabel LAN RJ45 grün , 2m S/FTP Kat.6 LSOH			
4067312	1	Patch-Kabel LAN RJ45 grün , 1m S/FTP Kat.6 LSOH			
4067196	1	Kabel zur WLAN Antenne 2m			
	1	Kabel zur 4G Antenne 3m ???			
4071269	1	Assembled sensor actuator-line M12 Bu. 0° A-kod. freies Lig-ende PVC 8x0.25 gr UL/CSA 1m			
5003040	3.00	UL approved PVC Electronic cable LIY(CY) (3x0,34) GY			
4067670	13	End bracket for terminal block Screwless end stop, 10 mm wide, for DIN-rail 35 x 15 and 35 x 7.5			




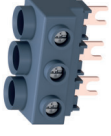

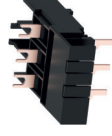

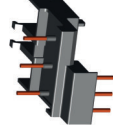
Summarized parts list

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Order number	Quantity	Designation	Type number	Manufacturer	Image
5003672	2	End and partition plate for terminal block End cover			
4070105	1	Ground terminal block Ground terminal			
4070104	1	End and partition plate for terminal block End cover			
5003671	4	Ground terminal block Ground terminal			
5003670	4	End and partition plate for terminal block End cover			
5003669	4	Multi-level terminal block			
4067865	23	Feed-through terminal block Double-level terminal block			
4067867	14	End and partition plate for terminal block End cover			



Summarized parts list

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Order number	Quantity	Designation	Type number	Manufacturer	Image
4070909	26	Feed-through terminal block Double-level terminal block			
4070908	5	Cross-connector for terminal block Plug-in bridge			
4067866	7	Ground terminal block Protective conductor double-level terminal block			
5003622	2	3-PHASE INFEEED TERMINAL SZ S0/S00			
4071480	1	Verdrahtungsbaustein unten für Schützkomination Baugröße S0 ohne Abstand zwischen den Schützen, Schraubanschluss			
5003673	2	LINK MODULE 3RV2.1-3RT2.1,3RV2.2-3RT2.2 SIRIUS link module actuating voltage contactor: DC			
5003732	1	3-PHASE BUSBARS			
4065520	2	LINK MODULE F.3RV 500/S0, 3RT 500 SIRIUS link module for 3RV1.2 and 3RT101, for 3RV2.1/3RV2.2 and 3RT2.1			

Summarized parts list

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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			

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			Editor	
Modification	Date	Name		

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Page description:
Summarized parts list

Project-No.:
Scheme-No.:

Project designation:
Dry Ice Pelletizer P55 EYO CE US V513
Project-No. Customer:
Scheme-No. Customer:







Summarized parts list

ASCO_F02_006

Order number	Quantity	Designation	Type number	Manufacturer	Image
4068214	1	SIMATIC HMI TP1200 COMFORT SIMATIC, HMI			
	0				
4068172	1	Disconnect switch 3-Pole, 40 A 600 V			
4071065	1	Main Switch Terminal Cover 3-pole ; 40/63A			
4063813	1	Handle for Front/Base Mounting, 67 x 67mm			
4063814	1	Shaft Extension			
4071240	1	ILLUMINATED PUSHBUTTON, BLUE SIRIUS ACT CIN20240911110240188284			
4071233	2	HOLDER SIRIUS ACT Holders Holder			

Summarized parts list

ASCO_F02_006

Order number	Quantity	Designation	Type number	Manufacturer	Image
4071241	1	CONTACT MODULE .INO SIRIUS ACT Contact module Contact module			
4071242	1	LED MODULE, BLUE SIRIUS ACT LED module LED module			
4071232	1	ILL. EM. STOP MUSHR. PUSHBUTTON,40MM,RED SIRIUS ACT EMERGENCY STOP mushroom pushbuttons Betätigungs-/Meldeelement			
4071237	2	CONTACT MODULE .INC SIRIUS ACT Contact module Contact module			
4071238	1	LED MODULE, RED SIRIUS ACT LED module LED module			
4071239	1	EMERGENCY STOP BACKING PLATE, YELLOW SIRIUS ACT EMERGENCY STOP backing plate EMERGENCY STOP name plate			

Summarized parts list

ASCO_F02_006

Order number	Quantity	Designation	Type number	Manufacturer	Image
4068196	1	ET 200pro, CM IM PN M12 7/8" S SIMATIC, ET 200pro			
4068194	1	ET 200pro, IM 154-3 PN HF SIMATIC, ET 200pro			
4071623	1	ET 200pro, CM PM-E 7/8" Connection module			
4071624	1	ET 200pro, PM-E 24V DC Power module			
4068198	1	ET 200pro, EM 8DI 24V DC SIMATIC, ET 200pro Digital module input			
4068202	5	ET 200pro, CM IO 4 x M12 Connection module			
4068199	2	ET 200pro, EM 4DO 24V DC/2.0A Digital module output			
4068200	2	ET 200pro, EM 4AI-1 HF Analog module input			

31.01.2024	ASCO	25.09.2025	
Modification	Date	Name	

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Project-No.:
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Project designation:
Dry Ice Pelletizer P55 EVO CE US V5.13
Project-No. Customer:
Scheme-No. Customer:

= AU502	
+ ET200PRO	
1 sh	
Pg	1

Summarized parts list








ASCO_F02_006

Order number	Quantity	Designation	Type number	Manufacturer	Image
4068245	2	Power line 7/8" 7/8" socket, angled			
4068246	1	ProfiNet-Kabel 2m 2m M12 D-Kodiert RJ45			
4070725	6	Anschlussstecker M12 5pol IP65, IP 67			

V200	31.01.2024	ASCO	25.09.2025	ASCO Kabelleistungs AG Hohenstrasse 19 CH-9300 Wittenbach +41 71 466 80 80 info@asco2.com	Page description: Summarized parts list	Project-No.:	Project designation: Dry Ice Pelletizer P55 EYO CE US V513	= AU502 + ET200PRO
Modification	Date	Name				Scheme-No.:	Project-No. Customer:	1 sh Pg





Summarized parts list

ASCO_F02_006

Order number	Quantity	Designation	Type number	Manufacturer	Image
	0				
4070702	1	Power and control cables ???			
5003043	1.20	PVC control cable Multinorm 4G2,5 GY			
4071505	1	Interface extension with wall connection SZ Interface extension, with wallconnection, RJ 45, L: 2000 mm			
4071270	1	Assembled sensor actuator-line M12 male 0° A-cod. with cable PUR 8x0.25 gy UL/CSA+drag ch. 0.6m			
4071263	1	PVC control cable Multinorm (12G1,5) GY ECO40 pipe base M20 400mm			 
4071264	1	ECO40 LED continuous lighting module 24VAC/DC blue 24VAC/DC blue			





Summarized parts list

ASCO_F02_006

Order number	Quantity	Designation	Type number	Manufacturer	Image
4071265	1	ECO40 LED continuous lighting module 24VAC/DC green 24VAC/DC green			
4071266	1	ECO40 LED continuous lighting module 24VAC/DC yellow 24VAC/DC yellow			
4071267	1	ECO40 LED continuous lighting module 24VAC/DC red 24VAC/DC red			
4071268	1	ECO40 LED continuous lighting module 24VAC/DC buzzer 24VAC/DC Buzzer			








Summarized parts list

ASCO_F02_006

Order number	Quantity	Designation	Type number	Manufacturer	Image
4071229	1	Levelsensor			
4071502	1	Temperaturmessung mit Umformer M12 4POL , 4...20mA , -25... +100C			
4071503	1	M12 St. 0° A-kod. / MSUD Ventilst. A-18mm PUR 5x0.34 sw UL/CSA+schleppk. 2m			
4071503	1	Assembled sensor actuator-line M12 male 0° / M12 female 0° A-cod. shielded PUR 5x0.34 shielded bk UL/CSA+drag ch. 2m			





Summarized parts list

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Order number	Quantity	Designation	Type number	Manufacturer	Image
4071046	1	Magnetostrictive sensors			
4071813	1	hydraulic pressure sensor 0...250bar ; 4...20mA			
4068204	1	Pressure transducer 0...25 bar , 4...20 mA M12 4pol			
	1	Lüfter für Ölkühler 400/460V , 50/60 Hz , 0,140/0.152 kW , 61 dB			
5003568	5.00	PVC control cable Multinorm 7G0,5 GY			
4049107	1	Steckverbinder Vorkonfektioniert M12x1 8x0.25			
4071503	2	Assembled sensor actuator-line M12 male 0° / M12 female 0° A-cod. shielded PUR 5x0.34 shielded bk UL/CSA+drag ch. 2m			
4068247	2	Circular connector (industrial connector)			







Summarized parts list

ASCO_F02_006

Order number	Quantity	Designation	Type number	Manufacturer	Image
4071504	2	M12 plug 0° A-code / MSUD valve plug A-18mm PUR 3x0.75 sw UL/CSA+schieppk. 2m			
4065746	2	Klemmdose Magnetventil IP67 , für Spule 18F			
4044263	1	Directional Valve 24VDC 38W			
4065745	2	Magnetventil 24V 20W			
	0				






Summarized parts list

ASCO_F02_006

Order number	Quantity	Designation	Type number	Manufacturer	Image
4071046	1	Magnetostrictive sensors			
4071813	1	hydraulic pressure sensor 0...250bar ; 4...20mA			
	0				
	1	Lüfter für Ölkühler 400/460V , 50/60 Hz , 0.140/0.152 kW , 61 dB			
5003043	1.20	PVC control cable Multinorm 4G2,5 GY			
5003568	5.00	PVC control cable Multinorm 7G0,5 GY			
4049107	1	Steckverbinder Vorkonfektioniert M12x1 8x0.25			
4071503	1	Assembled sensor actuator-line M12 male 0° / M12 female 0° A-cod. shielded PUR 5x0.34 shielded bk UL/CSA+drag ch. 2m			

Summarized parts list

ASCO_F02_006

Order number	Quantity	Designation	Type number	Manufacturer	Image
4068247	2	Circular connector (industrial connector)			
4071504	2	M12 plug 0° A-code / MSUD valve plug A-18mm PUR 3x0.75 sw UL/CSA+schleppk. 2m			
4065746	2	Klemmdose Magnetventil IP67 , für Spule 18F			
4044263	1	Directional Valve 24VDC 38W			
4065745	2	Magnetventil 24V 20W			

V200	31.01.2024	ASCO	Date	25.09.2025
			Editor	
Modification	Date	Name		

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Dry Ice Pelletizer P55 EYO CE US V513
Project-No. Customer:

= AU502
+ TEIL2
1 sh
Pg
1.1
1.1

Cable overview

ASCO_F10_001

Cable name	Source (from)	Target (to)	cable type	all conductors	Conductors used	Cross-section [mm ²]	Length [m]	remark	Graphical page of cable diagram
=P55EVO+SS01-60W2	=P55EVO+SS01-50KF11 =P55EVO+SS01-50A2	=P55EVO+DR-60AL	4068180 4068181	2x2x2	1	0.14	2		
=P55EVO+SS01-61W5	=P55EVO+SS01-50A2	=P55EVO+SS01-61U7	4068181	2x2x2	1	0.14	1		
=P55EVO+SS01-61W6	=P55EVO+SS01-61U7	=P55EVO+SS01-61U7			1		2		
=P55EVO+SS01-61W8	=P55EVO+SS01-61U7				1		3		
=P55EVO+SS01-63W2.1	=P55EVO+SS01-40X1 =P55EVO+SS01-50KF41	=P55EVO+SS01-63X2	4070909 4070942	8	7	0.25	1		
=P55EVO+SS01-68W1.1	=P55EVO+SS01-50KF32	=P55EVO+SS01-68T1	4070940	3	2	0.34	1		
=P55EVO+SS01-68W1.2	=P55EVO+SS01-68X1	=P55EVO+SS01-68T1	4067865	3	2	0.34	1		
=P55EVO+SS01-69W3	=P55EVO+SS01-69X1 =P55EVO+SS01-69SH2	=P55EVO+SS01-69K32	4067865 4047811	3	2	0.34	1		
=P55EVO+ET200PRO-90W2	=P55EVO+SS01-91X2	=P55EVO+ET200PRO-91KF10	4070909	5	5	1.5	3		
=P55EVO+ET200PRO-90W7	=P55EVO+SS01-91X7	=P55EVO+ET200PRO-91KF12	4070909	5	5	1.5	3		
=P55EVO+ET200PRO-91W1	=P55EVO+SS01-50A2 =P55EVO+SS01-50KF11	=P55EVO+ET200PRO-91KF11	4068181 4068180	2x2	1	0.75	2		
=P55EVO+EXT-10W1	=P55EVO+SS01-10X1	PE	4070105	4	4	10		Power supply	
	=P55EVO+DR-10Q1	L1	4068172						
		L2							
		L3							
=P55EVO+EXT-15W1	=P55EVO+SS01-15X1	=P55EVO+EXT-15M1	5003669	4	4	2.5	1.2		
=P55EVO+EXT-61W9	=P55EVO+EXT-61X9	=P55EVO+SS01-61U7	4068198	8	0	0.25	2		
=P55EVO+EXT-63W2.2	=P55EVO+SS01-63X2	=P55EVO+EXT-63X1	4068200	8	7	0.25	0.6		
		=P55EVO+EXT-63X1-63P6							
=P55EVO+EXT-69W1	=P55EVO+SS01-69X1	=P55EVO+EXT-69A1	4067865	12	9	1.5			
=P55EVO+HYD-110W1	=P55EVO+ET200PRO-91KF11	=P55EVO+HYD-110B1	4068198	5	4	0.34	2		
=P55EVO+HYD-110W9	=P55EVO+ET200PRO-91KF13	=P55EVO+HYD-110B9	4068200	5	4	0.34	2		
	=P55EVO+ET200PRO-110XD9		4070725						
=P55EVO+TEIL1-16W1	=P55EVO+SS01-16X1	=P55EVO+TEIL1-16M1	5003669	7	6	0.5	5		
=P55EVO+TEIL1-120W1	=P55EVO+ET200PRO-91KF13	=P55EVO+TEIL1-120B1	4068200	8	4	0.25	5		
=P55EVO+TEIL1-120W5	=P55EVO+ET200PRO-91KF13	=P55EVO+TEIL1-120B5	4068200	5	4	0.34	2		
	=P55EVO+ET200PRO-120XD5		4070725						
=P55EVO+TEIL1-120W7	=P55EVO+ET200PRO-91KF13	=P55EVO+TEIL1-120B7	4068200	5	2	0.34	2		
=P55EVO+TEIL1-130W1	=P55EVO+ET200PRO-91KF12	=P55EVO+TEIL1-130X1	4068199	5	3	0.34	5		
=P55EVO+TEIL1-130W3	=P55EVO+ET200PRO-91KF12	=P55EVO+TEIL1-130X3	4068199	5	3	0.34	5		
=P55EVO+TEIL1-130W5	=P55EVO+ET200PRO-91KF12	=P55EVO+TEIL1-130Y5	4068199	3	3	0.75	2		
=P55EVO+TEIL1-130W7	=P55EVO+ET200PRO-91KF12	=P55EVO+TEIL1-130Y7	4068199	3	3	0.75	2		
=P55EVO+TEIL2-15W1	=P55EVO+SS01-25X1	=P55EVO+TEIL2-25M1	5003669	4	4	2.5	1.2		
=P55EVO+TEIL2-26W1	=P55EVO+SS01-26X1	=P55EVO+TEIL2-26M1	5003669	7	6	0.5	5		
=P55EVO+TEIL2-220W1	=P55EVO+ET200PRO-91KF23	=P55EVO+TEIL2-220B1	4068200	8	4	0.25	5		
=P55EVO+TEIL2-220W5	=P55EVO+ET200PRO-91KF23	=P55EVO+TEIL2-220B5	4068200	4	4	0.34	3		
	=P55EVO+ET200PRO-220XD5		4070725						
=P55EVO+TEIL2-230W1	=P55EVO+ET200PRO-91KF22	=P55EVO+TEIL2-230X1	4068199	5	3	0.34	5		
=P55EVO+TEIL2-230W3	=P55EVO+ET200PRO-91KF22	=P55EVO+TEIL2-230X3	4068199	5	3	0.34	5		
=P55EVO+TEIL2-230W5	=P55EVO+ET200PRO-91KF22	=P55EVO+TEIL2-230Y5	4068199	3	3	0.75	2		
=P55EVO+TEIL2-230W7	=P55EVO+ET200PRO-91KF22	=P55EVO+TEIL2-230Y7	4068199	3	3	0.75	2		

Terminal-strip overview

Terminal strip	Function text	Terminals				Terminal diagram page
		first	last	Total PE	Total N	
=P55EVO+SS01-10X1	Power supply	1	3	4	0	4
=P55EVO+SS01-15X1	Hydraulic motor 1	1	4	1	0	1
=P55EVO+SS01-16X1	Hydraulic motor 1 Fan	1	6	1	0	2
=P55EVO+SS01-25X1	Hydraulic motor 2	1	4	1	0	1
=P55EVO+SS01-26X1	Hydraulic motor 1 Fan	1	6	1	0	2
=P55EVO+SS01-40X1	0VDC	1	9	0	0	9
=P55EVO+SS01-41X1	24VDC 1	1	3	0	0	3
=P55EVO+SS01-41X3	24VDC 2	1	4	0	0	4
=P55EVO+SS01-41X5	24VDC 3	1	2	0	0	2
=P55EVO+SS01-41X6	24VDC 4	1	3	0	0	3
=P55EVO+SS01-41X7	24VDC 5	1	3	0	0	3
=P55EVO+SS01-65X1	Interface 1 Emergency stop	1	10	2	0	5
=P55EVO+SS01-66X1	Interface 1	1	18	2	0	9
=P55EVO+SS01-68X1	=	1	4	2	0	2
=P55EVO+SS01-69X1	Interface 1 ASCO CO2 detector	1	10	2	0	5
=P55EVO+SS01-70X1	Interface 1 conveyor belt	1	6	2	0	3
=P55EVO+SS01-91X2	ET200pro Power supply	1	6	2	0	3
=P55EVO+SS01-91X7	ET200pro Power supply Machine part 2	1	6	2	0	3
=P55EVO+SS01-40XT5	Power supply unit Disconnect terminal	1	2	1	0	2