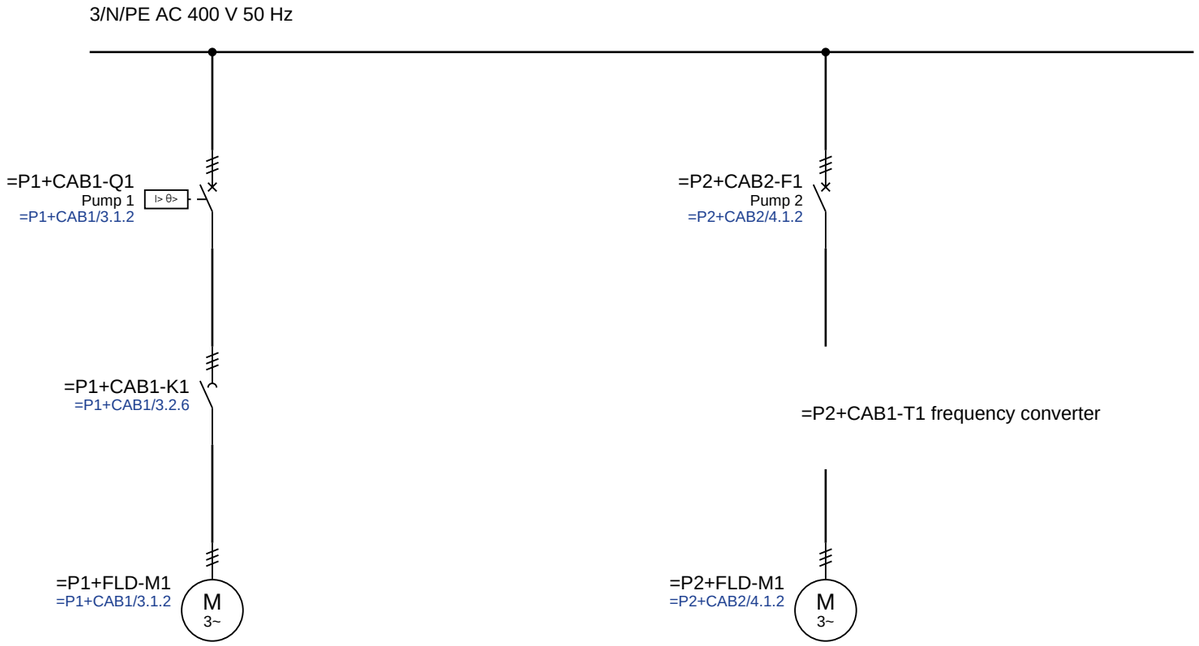
Pump station cabinets

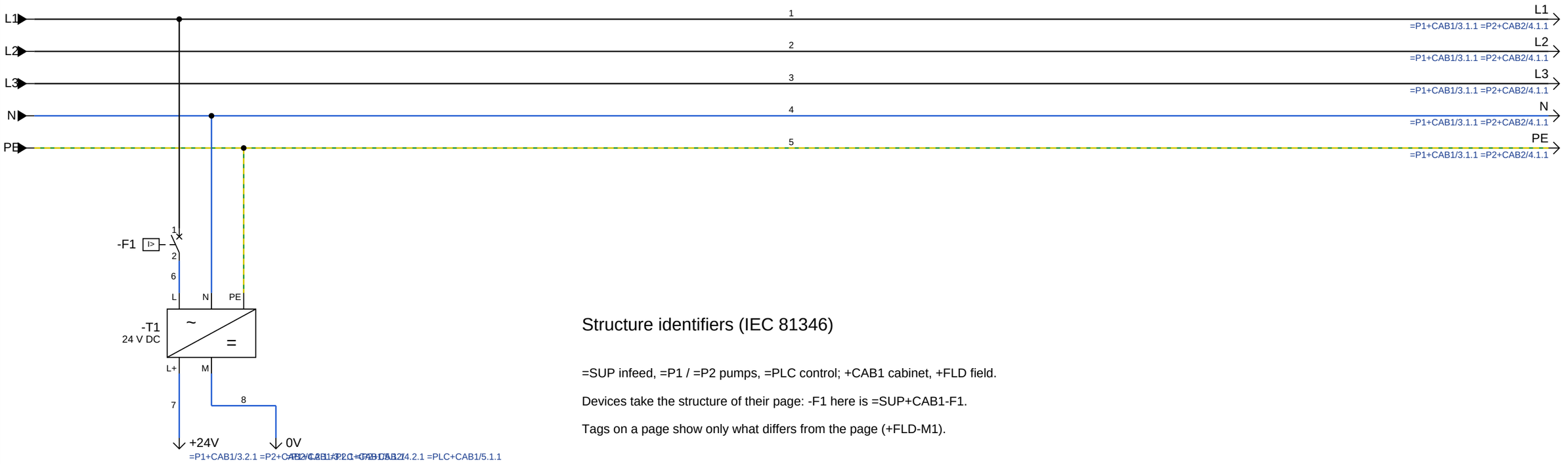
Two-bay line-up
with climate and routing

Company	OpenECraft
Created by	OpenECraft
Date	2026-10-27
Revision	A
Number of pages	21

Company	Date	Revision	Project / page description	Page	Sheet
OpenECraft	2026-10-27	A	Pump station cabinets	1.1	1 / 21
	Creator: OpenECraft	Software: OpenECraft	Cover sheet	Type: Cover	Project: Pump station cabinets



Company	Date	Revision	Project / page description	Page	Sheet
OpenECraft	2026-10-27	A	Pump station cabinets	1.2	2 / 21
	Creator	Software	Single-line diagram	Type	Project
	OpenECraft	OpenECraft		Overview	Pump station cabinets



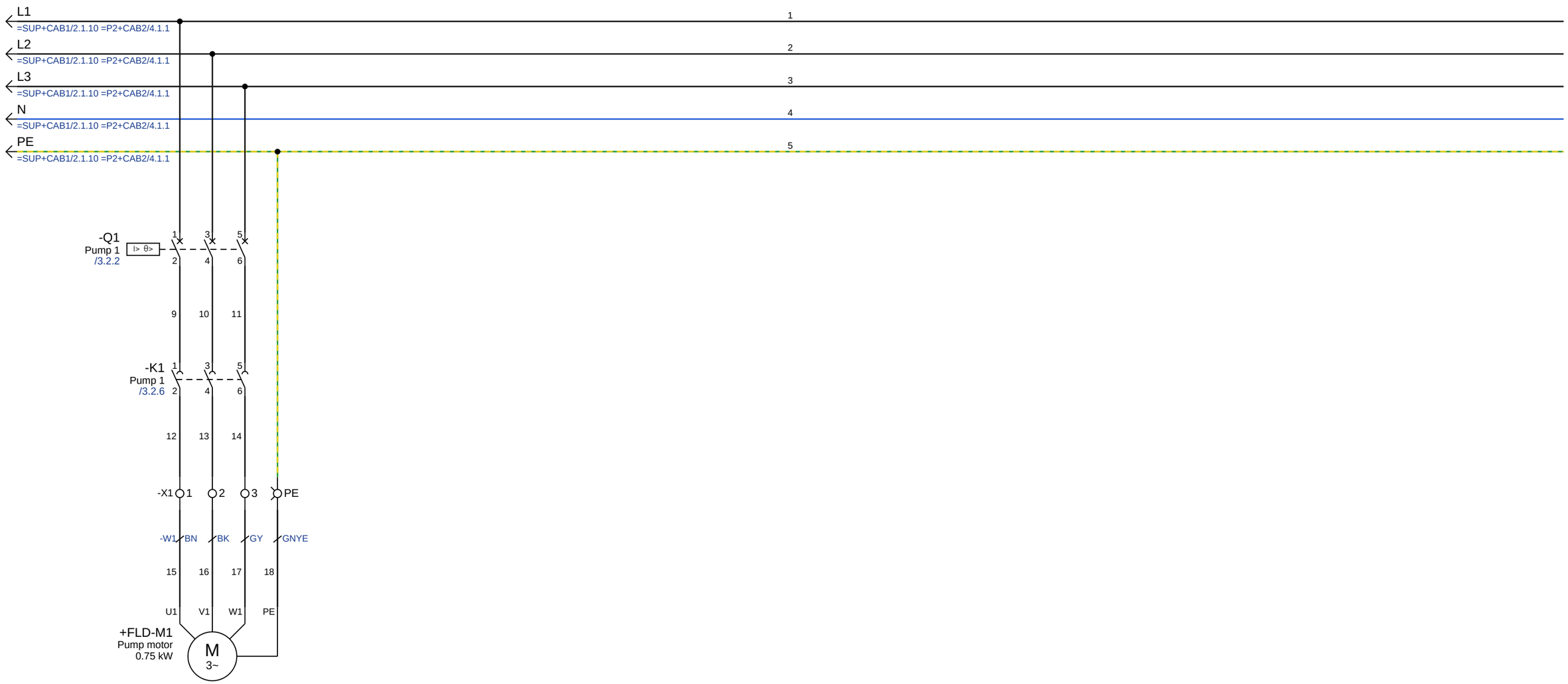
Structure identifiers (IEC 81346)

=SUP infeed, =P1 / =P2 pumps, =PLC control; +CAB1 cabinet, +FLD field.

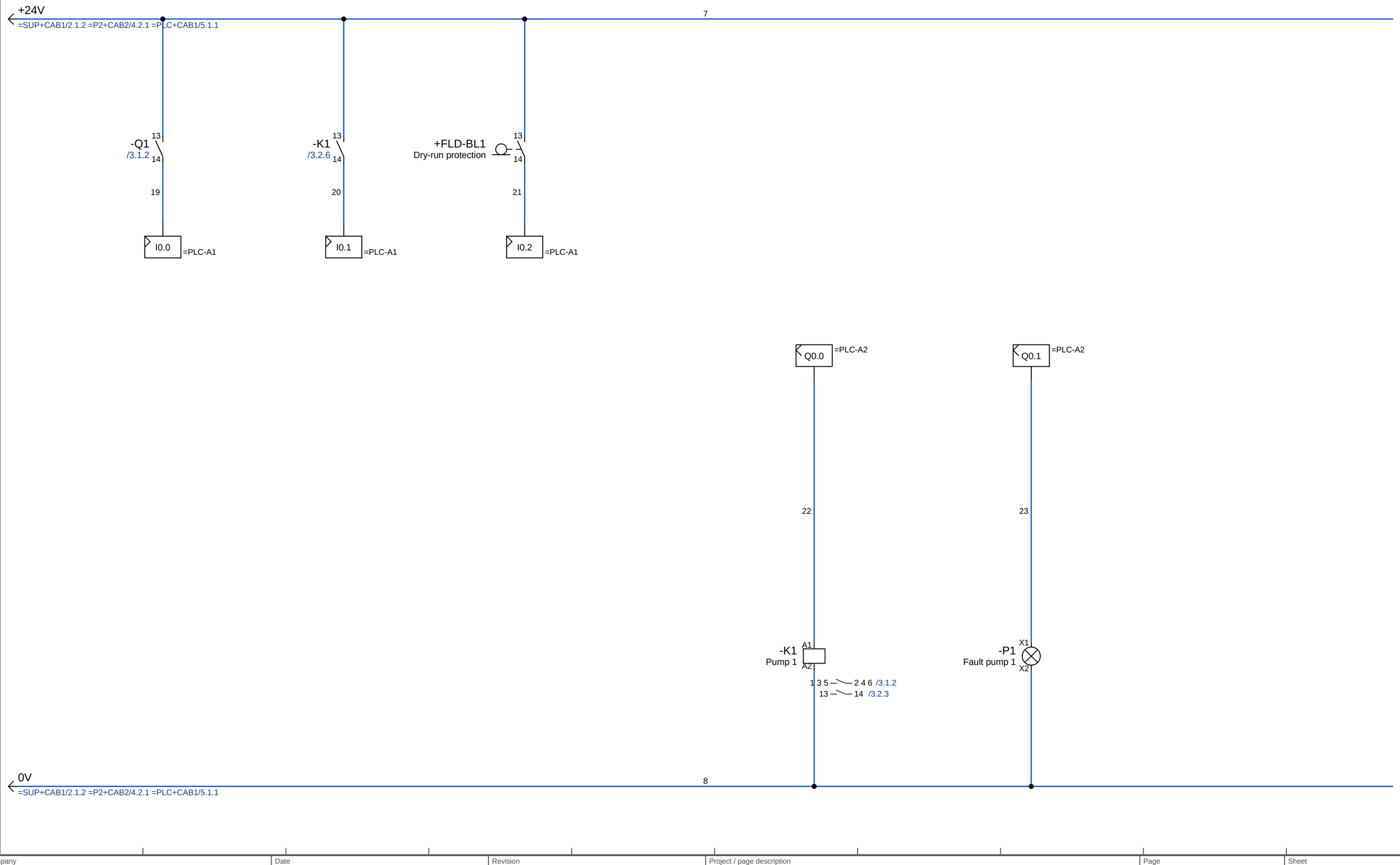
Devices take the structure of their page: -F1 here is =SUP+CAB1-F1.

Tags on a page show only what differs from the page (+FLD-M1).

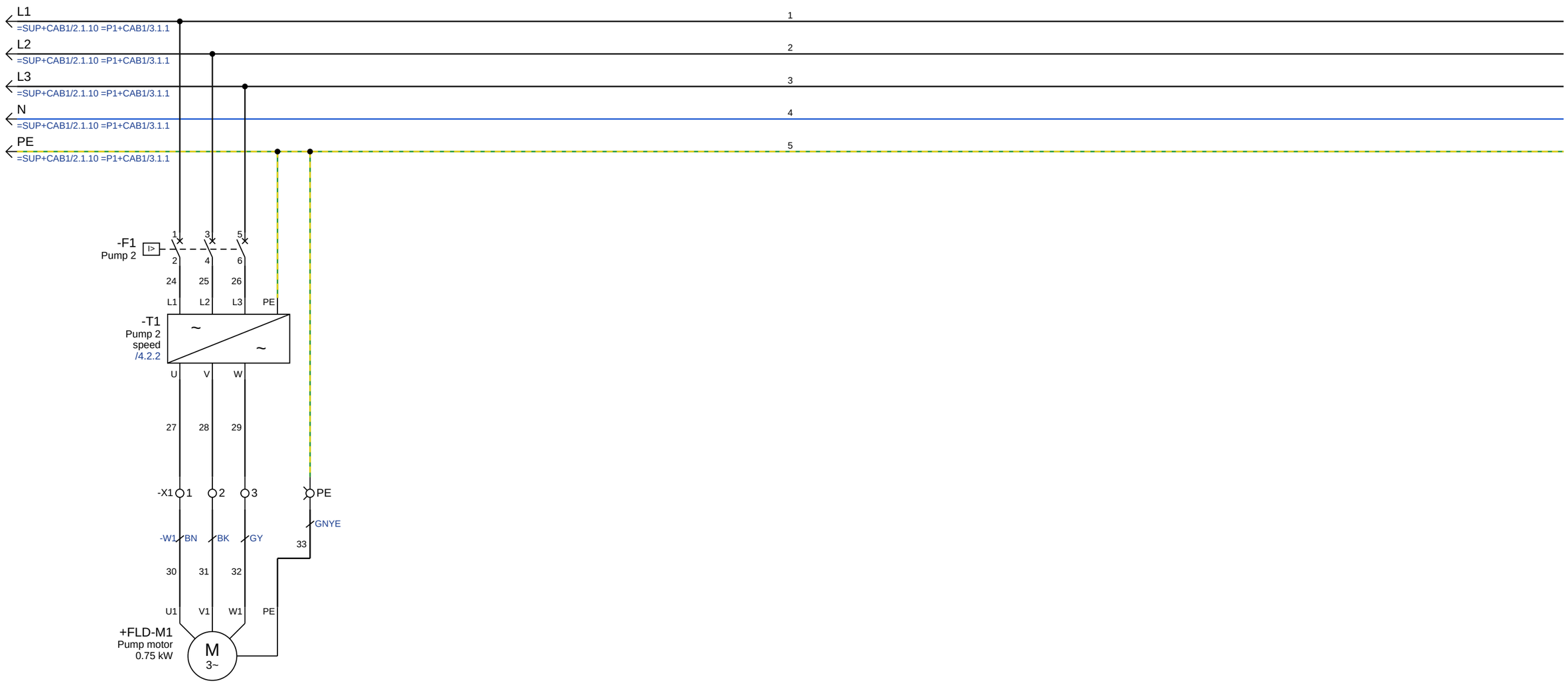
Company: OpenECraft	Date: 2026-10-27	Revision: A	Project / page description: Pump station cabinets	Page: =SUP+CAB1/2.1	Sheet: 3 / 21
	Creator: OpenECraft	Software: OpenECraft	Infeed and 24 V supply	Type: Schematic	Project: Pump station cabinets



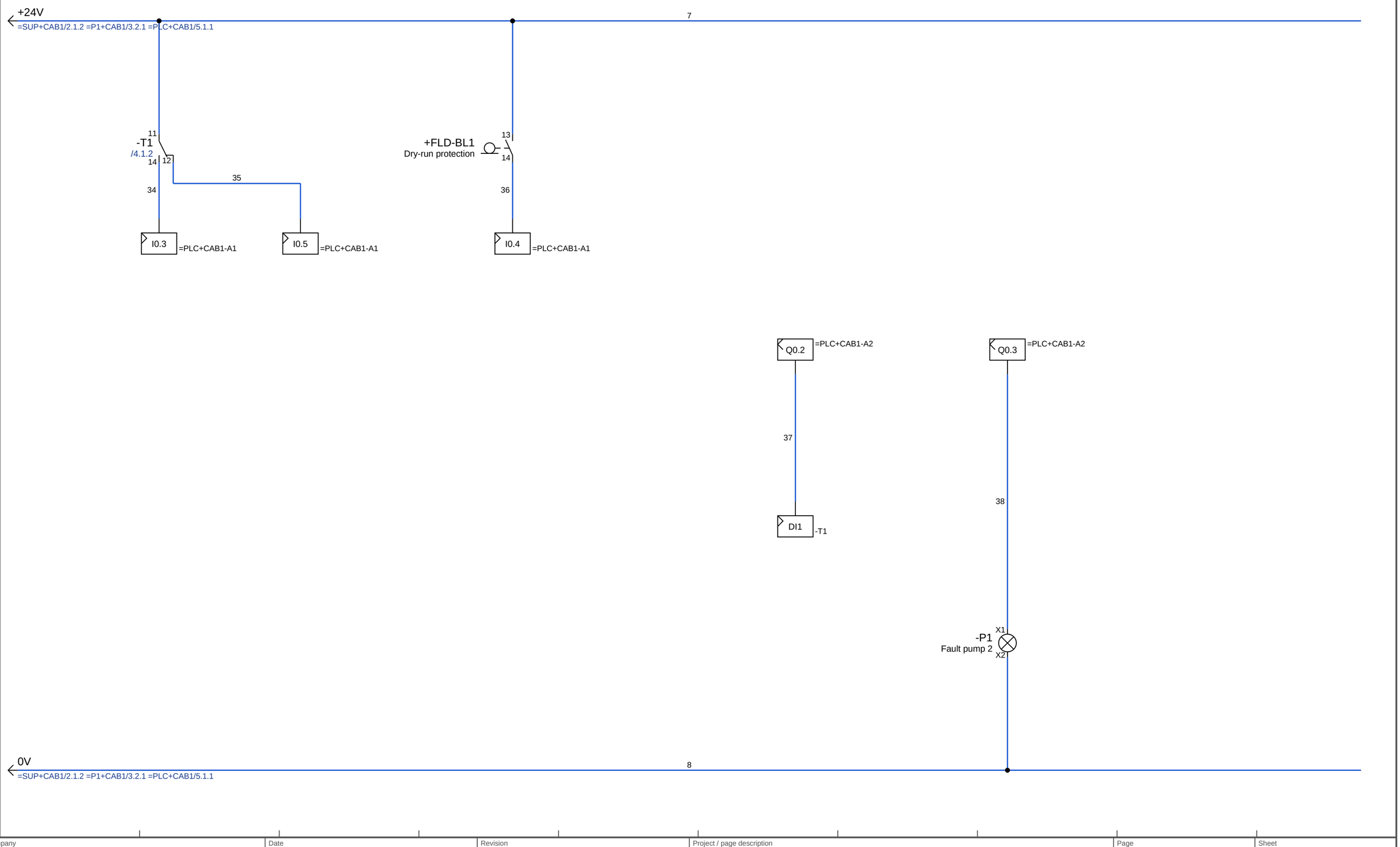
Company	Date	Revision	Project / page description	Page	Sheet
OpenECraft	2026-10-27	A	Pump station cabinets	=P1+CAB1/3.1	4 / 21
	Creator	Software	Power pump 1	Type	Project
	OpenECraft	OpenECraft		Schematic	Pump station cabinets



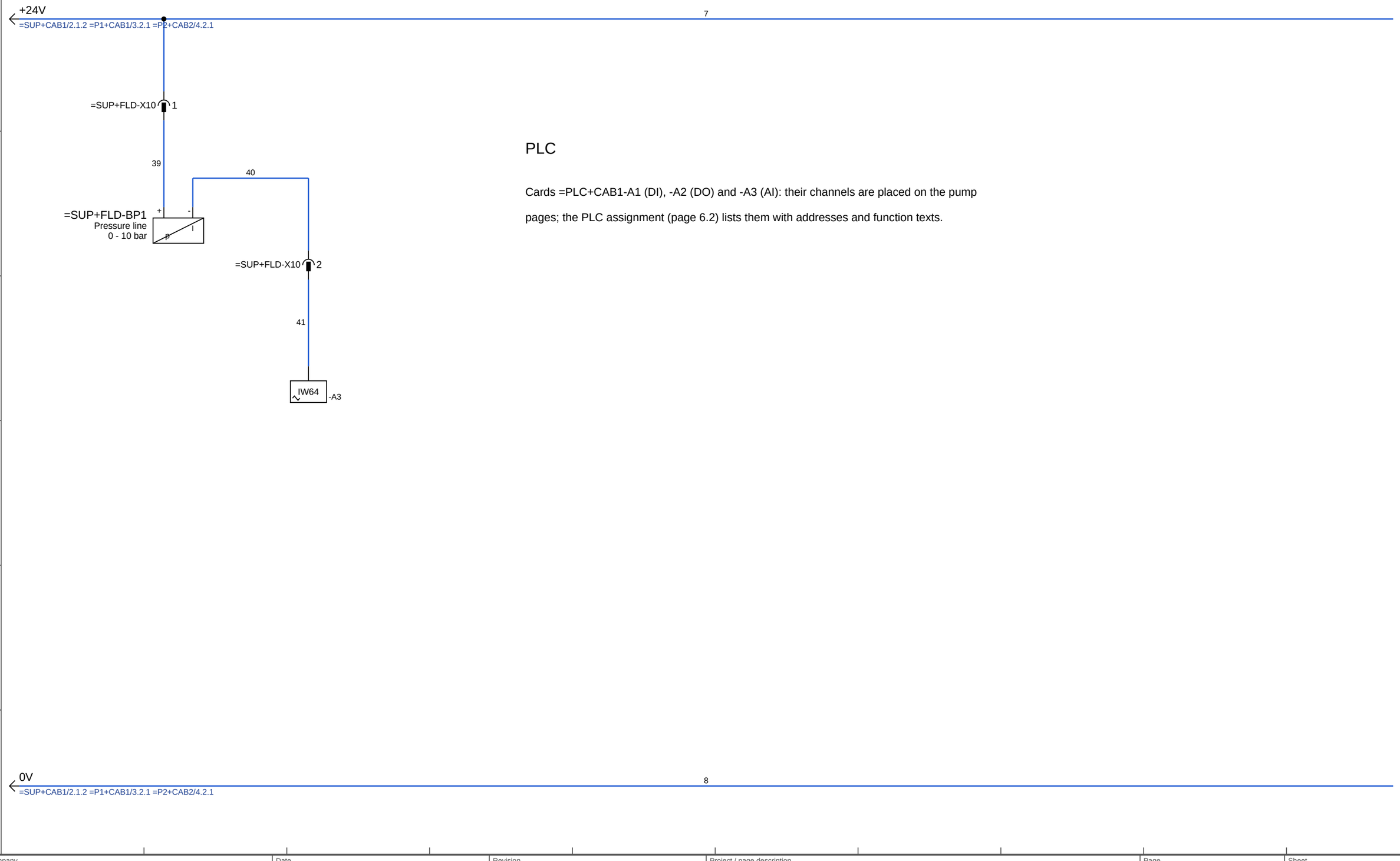
Company: OpenECraft	Date: 2026-10-27	Revision: A	Project / page description: Pump station cabinets	Page: =P1+CAB1/3.2	Sheet: 5 / 21
	Creator: OpenECraft	Software: OpenECraft	Control pump 1	Type: Schematic	Project: Pump station cabinets



Company	Date	Revision	Project / page description	Page	Sheet
OpenECraft	2026-10-27	A	Pump station cabinets	=P2+CAB2/4.1	6 / 21
	Creator: OpenECraft	Software: OpenECraft	Power pump 2	Type: Schematic	Project: Pump station cabinets



Company: OpenECraft	Date: 2026-10-27	Revision: A	Project / page description: Pump station cabinets	Page: =P2+CAB2/4.2	Sheet: 7 / 21
	Creator: OpenECraft	Software: OpenECraft	Control pump 2	Type: Schematic	Project: Pump station cabinets



PLC

Cards =PLC+CAB1-A1 (DI), -A2 (DO) and -A3 (AI): their channels are placed on the pump pages; the PLC assignment (page 6.2) lists them with addresses and function texts.

Company: OpenECraft	Date: 2026-10-27	Revision: A	Project / page description: Pump station cabinets	Page: =PLC+CAB1/5.1	Sheet: 8 / 21
	Creator: OpenECraft	Software: OpenECraft	Analog inputs	Type: Schematic	Project: Pump station cabinets

Table of contents

Page	Description	Type	Devices
1.1	Cover sheet	Cover sheet	0
1.2	Single-line diagram	Overview (not evaluated)	5
2.1	Infeed and 24 V supply	Schematic (multi-line)	14
3.1	Power pump 1	Schematic (multi-line)	12
3.2	Control pump 1	Schematic (multi-line)	12
4.1	Power pump 2	Schematic (multi-line)	12
4.2	Control pump 2	Schematic (multi-line)	11
5.1	Analog inputs	Schematic (multi-line)	6
6.1	Table of contents	Report: Table of contents	0
6.2	PLC assignment	Report: PLC assignment list	0
6.3	Plug diagram	Report: Plug diagram	0
6.4	Terminal diagram	Report: Terminal diagram	0
6.5	Device list	Report: Device list	0
6.6	Bill of materials	Report: Bill of materials	0
6.7	Cable overview	Report: Cable overview	0
6.8	Duct fill levels	Report: Duct fill levels	0
6.9	Enclosure climate	Report: Enclosure climate	0
6.10	Panel legend	Report: Panel legend	0
6.11	3D routing	Report: Routing list (3D)	0
7.1	Mounting layout +CAB1	Mounting layout	0
7.2	Mounting layout +CAB2	Mounting layout	0

PLC assignment list

PLC card	Address	Type	Function text	Connected to	Location
=P2+CAB2-T1	DI1	DI	Run	=PLC+CAB1-A2:Q0.2	/4.2.6
=PLC+CAB1-A1	I0.0	DI	Pump 1 ready	=P1+CAB1-Q1:14	/3.2.2
=PLC+CAB1-A1	I0.1	DI	Pump 1 running	=P1+CAB1-K1:14	/3.2.3
=PLC+CAB1-A1	I0.2	DI	Pump 1 water level	=P1+FLD-BL1:14	/3.2.4
=PLC+CAB1-A1	I0.3	DI	Pump 2 ready	=P2+CAB2-T1:14	/4.2.2
=PLC+CAB1-A1	I0.4	DI	Pump 2 water level	=P2+FLD-BL1:14	/4.2.4
=PLC+CAB1-A1	I0.5	DI	Pump 2 converter fault	=P2+CAB2-T1:12	/4.2.3
=PLC+CAB1-A2	Q0.0	DO	Pump 1 on	=P1+CAB1-K1:A1	/3.2.6
=PLC+CAB1-A2	Q0.1	DO	Pump 1 fault	=P1+CAB1-P1:X1	/3.2.8
=PLC+CAB1-A2	Q0.2	DO	Pump 2 on	=P2+CAB2-T1:DI1	/4.2.6
=PLC+CAB1-A2	Q0.3	DO	Pump 2 fault	=P2+CAB2-P1:X1	/4.2.8
=PLC+CAB1-A3	IW64	DI	Line pressure	=SUP+FLD-BP1:-, =SUP+FLD-X10:2	/5.1.3

Plug diagram

Plug	Pin	Socket side	Pin side	Potential	Location	Function text
=SUP+FLD-X10	1	=P1+CAB1-K1:13, =P1+CAB1-Q1:13, =P1+FLD-BL1:13, =P2+CAB2-T1:11, =P2+FLD-BL1:13	=SUP+FLD-BP1:+	+24V	/5.1.2	
=SUP+FLD-X10	2	=SUP+FLD-BP1:-	=PLC+CAB1-A3:IW64	N24	/5.1.3	
=SUP+FLD-X10	3					spare
=SUP+FLD-X10	4					spare

Terminal diagram

Strip	Terminal	Level	Jumper	External (top)	Internal (bottom)	Potential	Location	Function text
=P1+CAB1-X1	End bracket			GEN.EB-35				
=P1+CAB1-X1	1			=P1+CAB1-K1:2	=P1+FLD-M1:U1	N5	/3.1.2	
=P1+CAB1-X1	2			=P1+CAB1-K1:4	=P1+FLD-M1:V1	N6	/3.1.2	
=P1+CAB1-X1	3			=P1+CAB1-K1:6	=P1+FLD-M1:W1	N7	/3.1.2	
=P1+CAB1-X1	End plate			GEN.TB-END				
=P1+CAB1-X1	PE			=P2+CAB2-T1:PE, =P2+CAB2-X1:PE, =PE, =SUP+CAB1-T1:PE, »PE	=P1+FLD-M1:PE	PE	/3.1.2	
=P1+CAB1-X1	End plate			GEN.TB-END				
=P1+CAB1-X1	End bracket			GEN.EB-35				
=P2+CAB2-X1	End bracket			GEN.EB-35				
=P2+CAB2-X1	1			=P2+CAB2-T1:U	=P2+FLD-M1:U1	N16	/4.1.2	
=P2+CAB2-X1	2			=P2+CAB2-T1:V	=P2+FLD-M1:V1	N17	/4.1.2	
=P2+CAB2-X1	3			=P2+CAB2-T1:W	=P2+FLD-M1:W1	N18	/4.1.2	
=P2+CAB2-X1	End plate			GEN.TB-END				
=P2+CAB2-X1	PE			=P1+CAB1-X1:PE, =P2+CAB2-T1:PE, =PE, =SUP+CAB1-T1:PE, »PE	=P2+FLD-M1:PE	PE	/4.1.2	
=P2+CAB2-X1	End plate			GEN.TB-END				
=P2+CAB2-X1	End bracket			GEN.EB-35				

Device list

Device tag	Main function	Function text	Location	Aux. functions	Part number	Description
=P1+CAB1-K1	Relay / contactor coil	Pump 1	/3.2.6	2	GEN.CT-9A-24DC	Contactor 3P 9 A, coil 24 V DC, 1 NO aux
=P1+CAB1-P1	Indicator lamp	Fault pump 1	/3.2.8	0	GEN.LMP-RD-24	Indicator lamp red, LED 24 V
=P1+CAB1-Q1	Motor protection switch	Pump 1	/3.1.2	1	GEN.MPS-2.5-4A, GEN.MPS-AUX-1NO1NC	Motor protection switch 2.5 - 4 A
=P1+CAB1-X1	Terminal ×4		/3.1.2	0	GEN.TB-2.5, GEN.TB-PE-2.5	Feed-through terminal 2.5 mm², grey
=P1+FLD-BL1	Float switch NO	Dry-run protection	/3.2.4	0	GEN.FLOAT-SW-1NO	Float switch, cable 5 m, 1 NO
=P1+FLD-M1	Motor 3-phase	Pump motor 0.75 kW	/3.1.2	0	GEN.MOT-0.75KW	Three-phase motor 0.75 kW 400 V, 1400 rpm
=P2+CAB2-F1	Circuit breaker 3-pole	Pump 2	/4.1.2	0	GEN.MCB-3P-C16	Miniature circuit breaker 3P C16
=P2+CAB2-P1	Indicator lamp	Fault pump 2	/4.2.8	0	GEN.LMP-RD-24	Indicator lamp red, LED 24 V
=P2+CAB2-T1	Frequency converter	Pump 2 speed	/4.1.2	1	GEN.VFD-0.75KW	Frequency converter 0.75 kW, 3 x 400 V, EMC filter
=P2+CAB2-X1	Terminal ×4		/4.1.2	0	GEN.TB-2.5, GEN.TB-PE-2.5	Feed-through terminal 2.5 mm², grey
=P2+FLD-BL1	Float switch NO	Dry-run protection	/4.2.4	0	GEN.FLOAT-SW-1NO	Float switch, cable 5 m, 1 NO
=P2+FLD-M1	Motor 3-phase	Pump motor 0.75 kW	/4.1.2	0	GEN.MOT-0.75KW	Three-phase motor 0.75 kW 400 V, 1400 rpm
=PLC+CAB1-A1	PLC digital input ×6	Pump 1 ready	/3.2.2	0	GEN.PLC-DI16	PLC digital input module 16 x 24 V DC
=PLC+CAB1-A2	PLC digital output ×4	Pump 1 on	/3.2.6	0	GEN.PLC-DO16	PLC digital output module 16 x 24 V DC 0.5 A
=PLC+CAB1-A3	PLC analog input ×1	Line pressure	/5.1.3	0	GEN.PLC-AI4	PLC analog input module 4 x 0/4 - 20 mA, 0 - 10 V
=SUP+CAB1-F1	Circuit breaker 1-pole		/2.1.2	0	GEN.MCB-1P-C6	Miniature circuit breaker 1P C6
=SUP+CAB1-T1	Power supply AC/DC	24 V DC	/2.1.2	0	GEN.PS-24DC-5A	Power supply 230 V AC / 24 V DC 5 A
=SUP+FLD-BP1	Measuring transducer	Pressure line 0 - 10 bar	/5.1.2	0	GEN.PT-10BAR-420	Pressure transmitter 0 - 10 bar, 4 - 20 mA, 2-wire, G1/4
=SUP+FLD-X10	Plug pin and socket ×2		/5.1.2	0	GEN.CON-M12-4	Connector M12, 4 pins, A-coded, female, field-wireable

Bill of materials

Pos	Qty	Unit	Part number	Type number	Manufacturer	Description	Devices	Unit price	Total
1	0.63	m	GEN.BB-3X12X5	BB-3X12X5	Generic	Busbar system 3-pole, Cu 12 x 5 mm, 60 mm centre distance	+CAB1	38.00 EUR	23.94
1.1	1	pcs				Cut length 630 mm	+CAB1		incl.
2	4	pcs	GEN.BB-HOLDER-3P	BB-HOLDER-3P	Generic	Busbar holder 3-pole for 12 x 5 mm, 60 mm	+CAB1	6.40 EUR	25.60
3	50	m	GEN.CBL-4G1.5	CBL-4G1.5	Generic	Power cable 4G1.5, rubber sheathed	=P1-W1, =P2-W1	2.40 EUR	120.00
4	1	pcs	GEN.CLAMP-RAIL-500	CLAMP-RAIL-500	Generic	Cable clamp rail C 30, 500 mm, for strain relief	+CAB1	7.80 EUR	7.80
5	1	pcs	GEN.CON-M12-4	CON-M12-4	Generic	Connector M12, 4 pins, A-coded, female, field-wireable	=SUP+FLD-X10	9.50 EUR	9.50
6	1	pcs	GEN.CT-9A-24DC	CT-9A-24DC	Generic	Contactor 3P 9 A, coil 24 V DC, 1 NO aux	=P1+CAB1-K1	38.50 EUR	38.50
7	9	pcs	GEN.DUCT-40X60	DUCT-40X60	Generic	Cable duct 40 x 60 mm, 2 m	+CAB1, +CAB2	11.00 EUR	99.00
7.1	2	pcs				Cut length 1870 mm	+CAB1		incl.
7.2	2	pcs				Cut length 750 mm	+CAB1		incl.
7.3	5	pcs				Cut length 670 mm	+CAB1		incl.
7.4	2	pcs				Cut length 1870 mm	+CAB2		incl.
7.5	2	pcs				Cut length 550 mm	+CAB2		incl.
7.6	4	pcs				Cut length 470 mm	+CAB2		incl.
8	4	pcs	GEN.EB-35	EB-35	Generic	End bracket for TS 35 mounting rail	=P1+CAB1-X1, =P2+CAB2-X1	1.10 EUR	4.40
9	1	pcs	GEN.FAN-FILTER-120	FAN-FILTER-120	Generic	Filter fan 120 m³/h, 230 V AC, 204 x 204 mm, IP54	+CAB1	98.00 EUR	98.00
10	1	pcs	GEN.FAN-OUTLET-120	FAN-OUTLET-120	Generic	Outlet filter for filter fan 120 m³/h, 204 x 204 mm	+CAB1	32.00 EUR	32.00
11	30	pcs	GEN.FER-0.75	FER-0.75	Generic	Ferrule 0.75 mm², insulated, grey, 8 mm	wiring	0.03 EUR	0.90
12	38	pcs	GEN.FER-2.5	FER-2.5	Generic	Ferrule 2.5 mm², insulated, blue, 8 mm	wiring	0.03 EUR	1.14
13	2	pcs	GEN.FLOAT-SW-1NO	FLOAT-SW-1NO	Generic	Float switch, cable 5 m, 1 NO	=P1+FLD-BL1, =P2+FLD-BL1	21.00 EUR	42.00
14	2	pcs	GEN.GLAND-M20	GLAND-M20	Generic	Cable gland M20 x 1.5, polyamide, light grey, IP68, cable Ø 6 – 12 mm	+CAB1, +CAB2	1.40 EUR	2.80
15	1	pcs	GEN.GP-600X500	GP-600X500	Generic	Gland plate 600 x 500 mm, sheet steel, with seal	+CAB2	36.00 EUR	36.00
16	1	pcs	GEN.GP-800X500	GP-800X500	Generic	Gland plate 800 x 500 mm, sheet steel, with seal	+CAB1	42.00 EUR	42.00
17	2	pcs	GEN.HANDLE-SWING	HANDLE-SWING	Generic	Swing handle, lockable, with double bit insert	+CAB1, +CAB2	29.00 EUR	58.00
18	1	pcs	GEN.LIGHT-LED-350	LIGHT-LED-350	Generic	Enclosure LED light 5 W, 230 V AC, 350 mm, with door switch input	+CAB1	46.00 EUR	46.00
19	2	pcs	GEN.LMP-RD-24	LMP-RD-24	Generic	Indicator lamp red, LED 24 V	=P1+CAB1-P1, =P2+CAB2-P1	9.10 EUR	18.20
20	4	pcs	GEN.MARK-CABLE	MARK-CABLE	Generic	Cable marker for cable Ø 4 – 10 mm, white, printable	marking	0.12 EUR	0.48
21	15	pcs	GEN.MARK-DEV	MARK-DEV	Generic	Device marker 15 x 5 mm, white, printable	marking	0.08 EUR	1.20
22	2	pcs	GEN.MARK-LEG	MARK-LEG	Generic	Legend plate 27 x 8 mm for 22 mm command devices, printable	marking	0.35 EUR	0.70
23	10	pcs	GEN.MARK-TB-5	MARK-TB-5	Generic	Terminal marker 5.2 mm, white, printable	marking	0.02 EUR	0.20
24	84	pcs	GEN.MARK-WIRE	MARK-WIRE	Generic	Wire marker sleeve for 0.5 – 2.5 mm², white, printable	marking	0.03 EUR	2.52
25	1	pcs	GEN.MCB-1P-C6	MCB-1P-C6	Generic	Miniature circuit breaker 1P C6	=SUP+CAB1-F1	8.70 EUR	8.70
26	1	pcs	GEN.MCB-3P-C16	MCB-3P-C16	Generic	Miniature circuit breaker 3P C16	=P2+CAB2-F1	27.30 EUR	27.30
27	2	pcs	GEN.MOT-0.75KW	MOT-0.75KW	Generic	Three-phase motor 0.75 kW 400 V, 1400 rpm	=P1+FLD-M1, =P2+FLD-M1	180.00 EUR	360.00
28	1	pcs	GEN.MPS-2.5-4A	MPS-2.5-4A	Generic	Motor protection switch 2.5 - 4 A	=P1+CAB1-Q1	61.00 EUR	61.00
29	1	pcs	GEN.MPS-AUX-1NO1NC	MPS-AUX-1NO1NC	Generic	Auxiliary switch for motor protection switch, 1 NO + 1 NC, lateral mou…	=P1+CAB1-Q1	12.90 EUR	12.90
30	2	pcs	GEN.NUT-M4	NUT-M4	Generic	Hexagon nut M4, ISO 4032, steel zinc plated	+CAB1	0.08 EUR	0.16
31	1	pcs	GEN.PE-BAR-10	PE-BAR-10	Generic	PE busbar 10 x 3 mm with 10 screw terminals, 200 mm	+CAB1	9.50 EUR	9.50
32	1	pcs	GEN.PL-600X500-100	PL-600X500-100	Generic	Plinth 600 x 500 mm, 100 mm high, corner pieces and trims	+CAB2	195.00 EUR	195.00
33	1	pcs	GEN.PL-800X500-100	PL-800X500-100	Generic	Plinth 800 x 500 mm, 100 mm high, corner pieces and trims	+CAB1	215.00 EUR	215.00

… 22 more rows – see Reports window / CSV export

Cable overview

Cable	Type	Cores used	Cross-section	Length (m)	From	To	Part number	Description
=P1-W1	CBL-4G1.5	4/4	1.5 mm²	25	=P1+CAB1-X1	=P1+FLD-M1	GEN.CBL-4G1.5	Pump motor
=P2-W1	CBL-4G1.5	4/4	1.5 mm²	25	=P2+CAB2-X1	=P2+FLD-M1	GEN.CBL-4G1.5	Pump motor

Duct fill levels

Enclosure	Cable duct	Position (mm)	Length (mm)	Wires	Fullest stretch (mm)	Fill level (%)	Limit (%)
+CAB1	GEN.DUCT-40X60	20 / 890	1870	16	882 – 898	3	70
+CAB1	GEN.DUCT-40X60	730 / 252	1870	10	230 – 275	2	70
+CAB1	GEN.DUCT-40X60	198 / 230	670	13	186 – 209	3	70
+CAB1	GEN.DUCT-40X60	54 / 560	670	13	40 – 69	4	70
+CAB1	GEN.DUCT-40X60	50 / 900	670	13	40 – 61	3	70
+CAB2	GEN.DUCT-40X60	20 / 1612	1870	12	1338 – 1888	3	70
+CAB2	GEN.DUCT-40X60	54 / 230	470	3	40 – 69	1	70
+CAB2	GEN.DUCT-40X60	68 / 560	470	6	67 – 69	2	70
+CAB2	GEN.DUCT-40X60	69 / 1100	470	7	66 – 72	2	70

Enclosure climate

Enclosure	Surface (m²)	Power loss (W)	Inside (°C)	Highest (°C)	Cooling	Heating (W)	Dew point (°C)	Devices without power loss
+CAB1	4.84	22	35.8	40	–	–	–	=PLC+CAB1-A1, =PLC+CAB1-A2, =PLC+CAB1-A3, =P1+CAB1-X1, =P1+CAB1-…
+CAB2	3.98	42	36.9	40	–	–	–	=P2+CAB2-X1, =P2+CAB2-P1

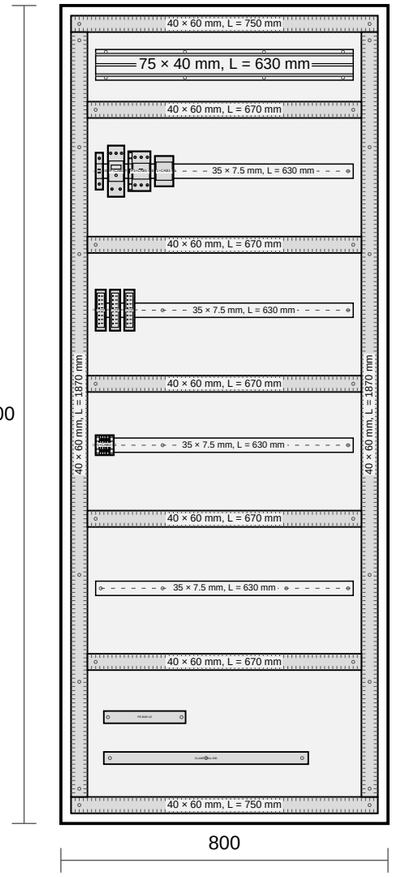
Panel legend

Enclosure	Pos	Device tag	Description	Part number	Mounting	Position (mm)	Size (mm)	Length (mm)
+CAB1	1	=SUP+CAB1-T1	Power supply 230 V AC / 24 V DC 5 A	GEN.PS-24DC-5A	Mounting plate	90 / 318	40 × 125	
+CAB1	2	=P1+CAB1-Q1	Motor protection switch 2.5 - 4 A	GEN.MPS-2.5-4A	Mounting plate	140 / 332	54 × 97	
+CAB1	3	=SUP+CAB1-F1	Miniature circuit breaker 1P C6	GEN.MCB-1P-C6	Mounting plate	60 / 335	18 × 90	
+CAB1	4	=P1+CAB1-K1	Contactor 3P 9 A, coil 24 V DC, 1 NO aux	GEN.CT-9A-24DC	Mounting plate	205 / 343	45 × 74	
+CAB1	5	=PLC+CAB1-A1	PLC digital input module 16 x 24 V DC	GEN.PLC-DI16	Mounting plate	60 / 670	25 × 100	
+CAB1	6	=PLC+CAB1-A2	PLC digital output module 16 x 24 V DC 0.5 A	GEN.PLC-DO16	Mounting plate	95 / 670	25 × 100	
+CAB1	7	=PLC+CAB1-A3	PLC analog input module 4 x 0/4 - 20 mA, 0 - 10 V	GEN.PLC-AI4	Mounting plate	130 / 670	25 × 100	
+CAB1	8	=P1+CAB1-X1	Feed-through terminal 2.5 mm², grey	GEN.TB-2.5	Mounting plate	60 / 1026	44 × 49	
+CAB1	9	=P1+CAB1-P1	Indicator lamp red, LED 24 V	GEN.LMP-RD-24	Door	380 / 900	30 × 30	
+CAB1	10		Mounting rail TS 35 x 7.5, perforated, 1 m	GEN.RAIL-TS35-1M	Mounting plate	60 / 362	35 × 7.5	630
+CAB1	11		Mounting rail TS 35 x 7.5, perforated, 1 m	GEN.RAIL-TS35-1M	Mounting plate	60 / 702	35 × 7.5	630
+CAB1	12		Mounting rail TS 35 x 7.5, perforated, 1 m	GEN.RAIL-TS35-1M	Mounting plate	60 / 1032	35 × 7.5	630
+CAB1	13		Mounting rail TS 35 x 7.5, perforated, 1 m	GEN.RAIL-TS35-1M	Mounting plate	60 / 1382	35 × 7.5	630
+CAB1	14		Cable duct 40 x 60 mm, 2 m	GEN.DUCT-40X60	Mounting plate	0 / 0	40 × 60	750
+CAB1	15		Cable duct 40 x 60 mm, 2 m	GEN.DUCT-40X60	Mounting plate	0 / 40	40 × 60	1870
+CAB1	16		Cable duct 40 x 60 mm, 2 m	GEN.DUCT-40X60	Mounting plate	710 / 40	40 × 60	1870
+CAB1	17		Cable duct 40 x 60 mm, 2 m	GEN.DUCT-40X60	Mounting plate	40 / 210	40 × 60	670
+CAB1	18		Cable duct 40 x 60 mm, 2 m	GEN.DUCT-40X60	Mounting plate	40 / 540	40 × 60	670
+CAB1	19		Cable duct 40 x 60 mm, 2 m	GEN.DUCT-40X60	Mounting plate	40 / 880	40 × 60	670
+CAB1	20		Cable duct 40 x 60 mm, 2 m	GEN.DUCT-40X60	Mounting plate	40 / 1210	40 × 60	670
+CAB1	21		Cable duct 40 x 60 mm, 2 m	GEN.DUCT-40X60	Mounting plate	40 / 1560	40 × 60	670
+CAB1	22		Cable duct 40 x 60 mm, 2 m	GEN.DUCT-40X60	Mounting plate	0 / 1910	40 × 60	750
+CAB1	23		Busbar system 3-pole, Cu 12 x 5 mm, 60 mm centre distance	GEN.BB-3X12X5	Mounting plate	60 / 82	75 × 40	630
+CAB2	1	=P2+CAB2-F1	Miniature circuit breaker 3P C16	GEN.MCB-3P-C16	Mounting plate	60 / 335	54 × 90	
+CAB2	2	=P2+CAB2-T1	Frequency converter 0.75 kW, 3 x 400 V, EMC filter	GEN.VFD-0.75KW	Mounting plate	60 / 730	72 × 200	
+CAB2	3	=P2+CAB2-X1	Feed-through terminal 2.5 mm², grey	GEN.TB-2.5	Mounting plate	60 / 1256	44 × 49	
+CAB2	4	=P2+CAB2-P1	Indicator lamp red, LED 24 V	GEN.LMP-RD-24	Door	280 / 900	30 × 30	
+CAB2	5		Mounting rail TS 35 x 7.5, perforated, 1 m	GEN.RAIL-TS35-1M	Mounting plate	60 / 362	35 × 7.5	430
+CAB2	6		Mounting rail TS 35 x 7.5, perforated, 1 m	GEN.RAIL-TS35-1M	Mounting plate	60 / 812	35 × 7.5	430
+CAB2	7		Mounting rail TS 35 x 7.5, perforated, 1 m	GEN.RAIL-TS35-1M	Mounting plate	60 / 1262	35 × 7.5	430
+CAB2	8		Cable duct 40 x 60 mm, 2 m	GEN.DUCT-40X60	Mounting plate	0 / 0	40 × 60	550
+CAB2	9		Cable duct 40 x 60 mm, 2 m	GEN.DUCT-40X60	Mounting plate	0 / 40	40 × 60	1870
+CAB2	10		Cable duct 40 x 60 mm, 2 m	GEN.DUCT-40X60	Mounting plate	510 / 40	40 × 60	1870
+CAB2	11		Cable duct 40 x 60 mm, 2 m	GEN.DUCT-40X60	Mounting plate	40 / 210	40 × 60	470
+CAB2	12		Cable duct 40 x 60 mm, 2 m	GEN.DUCT-40X60	Mounting plate	40 / 540	40 × 60	470
+CAB2	13		Cable duct 40 x 60 mm, 2 m	GEN.DUCT-40X60	Mounting plate	40 / 1080	40 × 60	470
+CAB2	14		Cable duct 40 x 60 mm, 2 m	GEN.DUCT-40X60	Mounting plate	40 / 1410	40 × 60	470
+CAB2	15		Cable duct 40 x 60 mm, 2 m	GEN.DUCT-40X60	Mounting plate	0 / 1910	40 × 60	550

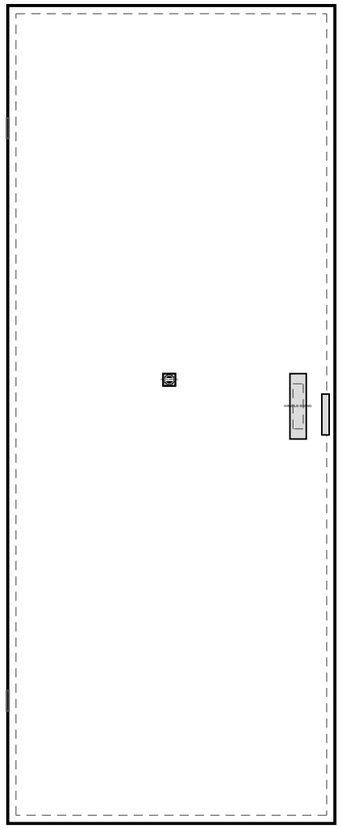
Routing list (3D)

Kind	Designation	From	To	Class	Enclosures	Length (mm)	Cut length (mm)	Free air (mm)	Bundles	Status
Cable	=P2-W1	=P2+CAB2-X1	=P2+FLD-M1	Power	+CAB2	1555	1600	375	0	routed
Cable	=P1-W1	=P1+CAB1-X1	=P1+FLD-M1	Power	+CAB1	1784	1800	375	0	routed
Wire	=SUP+CAB1-F1:1 – =P1+CAB1-Q1:1	=SUP+CAB1-F1:1	=P1+CAB1-Q1:1	Power	+CAB1	476	480	0	4	in the cable ducts
Wire	=P2+CAB2-T1:PE – =P2+CAB2-X1:PE	=P2+CAB2-T1:PE	=P2+CAB2-X1:PE	Power	+CAB2	1280	1290	0	7	in the cable ducts
Wire	=SUP+CAB1-T1:PE – =P1+CAB1-X1:PE	=SUP+CAB1-T1:PE	=P1+CAB1-X1:PE	Power	+CAB1	1229	1230	0	9	in the cable ducts
Wire	=P1+CAB1-Q1:1 – =P2+CAB2-F1:1	=P1+CAB1-Q1:1	=P2+CAB2-F1:1	Power	+CAB1 / +CAB2	1391	1400	0	10	in the cable ducts
Wire	=P1+CAB1-Q1:3 – =P2+CAB2-F1:3	=P1+CAB1-Q1:3	=P2+CAB2-F1:3	Power	+CAB1 / +CAB2	1394	1400	0	9	in the cable ducts
Wire	=P1+CAB1-Q1:5 – =P2+CAB2-F1:5	=P1+CAB1-Q1:5	=P2+CAB2-F1:5	Power	+CAB1 / +CAB2	1397	1400	0	8	in the cable ducts
Wire	=P1+CAB1-X1:PE – =P2+CAB2-T1:PE	=P1+CAB1-X1:PE	=P2+CAB2-T1:PE	Power	+CAB1 / +CAB2	2480	2490	0	9	in the cable ducts
Wire	=P1+CAB1-Q1:6 – =P1+CAB1-K1:5	=P1+CAB1-Q1:6	=P1+CAB1-K1:5	Control	+CAB1	1140	1150	0	14	in the cable ducts
Wire	=P1+CAB1-Q1:4 – =P1+CAB1-K1:3	=P1+CAB1-Q1:4	=P1+CAB1-K1:3	Control	+CAB1	1116	1120	0	14	in the cable ducts
Wire	=P1+CAB1-Q1:2 – =P1+CAB1-K1:1	=P1+CAB1-Q1:2	=P1+CAB1-K1:1	Control	+CAB1	1092	1100	0	13	in the cable ducts
Wire	=P2+CAB2-F1:2 – =P2+CAB2-T1:L1	=P2+CAB2-F1:2	=P2+CAB2-T1:L1	Control	+CAB2	577	580	0	2	in the cable ducts
Wire	=P2+CAB2-F1:4 – =P2+CAB2-T1:L2	=P2+CAB2-F1:4	=P2+CAB2-T1:L2	Control	+CAB2	581	590	0	2	in the cable ducts
Wire	=P2+CAB2-F1:6 – =P2+CAB2-T1:L3	=P2+CAB2-F1:6	=P2+CAB2-T1:L3	Control	+CAB2	584	590	0	1	in the cable ducts
Wire	=P2+CAB2-T1:V – =P2+CAB2-X1:2	=P2+CAB2-T1:V	=P2+CAB2-X1:2	Control	+CAB2	581	590	0	2	in the cable ducts
Wire	=P2+CAB2-T1:U – =P2+CAB2-X1:1	=P2+CAB2-T1:U	=P2+CAB2-X1:1	Control	+CAB2	586	590	0	2	in the cable ducts
Wire	=P2+CAB2-T1:W – =P2+CAB2-X1:3	=P2+CAB2-T1:W	=P2+CAB2-X1:3	Control	+CAB2	587	590	0	3	in the cable ducts
Wire	=P1+CAB1-K1:2 – =P1+CAB1-X1:1	=P1+CAB1-K1:2	=P1+CAB1-X1:1	Control	+CAB1	1015	1020	0	13	in the cable ducts
Wire	=P1+CAB1-K1:4 – =P1+CAB1-X1:2	=P1+CAB1-K1:4	=P1+CAB1-X1:2	Control	+CAB1	1029	1030	0	13	in the cable ducts
Wire	=P1+CAB1-K1:6 – =P1+CAB1-X1:3	=P1+CAB1-K1:6	=P1+CAB1-X1:3	Control	+CAB1	1044	1050	0	13	in the cable ducts
Wire	=SUP+CAB1-T1:M – =P1+CAB1-K1:A2	=SUP+CAB1-T1:M	=P1+CAB1-K1:A2	Control	+CAB1	540	550	0	4	in the cable ducts
Wire	=P1+CAB1-Q1:13 – =P1+CAB1-K1:13	=P1+CAB1-Q1:13	=P1+CAB1-K1:13	Control	+CAB1	489	490	0	6	in the cable ducts
Wire	=SUP+CAB1-F1:2 – =SUP+CAB1-T1:L	=SUP+CAB1-F1:2	=SUP+CAB1-T1:L	Control	+CAB1	867	870	0	3	in the cable ducts
Wire	=SUP+CAB1-T1:L+ – =P1+CAB1-Q1:13	=SUP+CAB1-T1:L+	=P1+CAB1-Q1:13	Control	+CAB1	940	940	0	7	in the cable ducts
Wire	=PLC+CAB1-A2:Q0.1 – =P1+CAB1-P1:X1	=PLC+CAB1-A2:Q0.1	=P1+CAB1-P1:X1	Control	+CAB1	1469	1470	0	5	in the cable ducts
Wire	=P1+CAB1-Q1:14 – =PLC+CAB1-A1:I0.0	=P1+CAB1-Q1:14	=PLC+CAB1-A1:I0.0	Control	+CAB1	963	970	0	9	in the cable ducts
Wire	=P1+CAB1-K1:14 – =PLC+CAB1-A1:I0.1	=P1+CAB1-K1:14	=PLC+CAB1-A1:I0.1	Control	+CAB1	1081	1090	0	12	in the cable ducts
Wire	=PLC+CAB1-A2:Q0.0 – =P1+CAB1-K1:A1	=PLC+CAB1-A2:Q0.0	=P1+CAB1-K1:A1	Control	+CAB1	1379	1380	0	12	in the cable ducts
Wire	=P1+CAB1-K1:A2 – =P1+CAB1-P1:X2	=P1+CAB1-K1:A2	=P1+CAB1-P1:X2	Control	+CAB1	1887	1890	0	10	in the cable ducts
Wire	=PLC+CAB1-A2:Q0.3 – =P2+CAB2-P1:X1	=PLC+CAB1-A2:Q0.3	=P2+CAB2-P1:X1	Control	+CAB1 / +CAB2	3426	3430	0	7	in the cable ducts
Wire	=P1+CAB1-K1:13 – =P2+CAB2-T1:11	=P1+CAB1-K1:13	=P2+CAB2-T1:11	Control	+CAB1 / +CAB2	1764	1770	0	7	in the cable ducts
Wire	=P1+CAB1-P1:X2 – =P2+CAB2-P1:X2	=P1+CAB1-P1:X2	=P2+CAB2-P1:X2	Control	+CAB1 / +CAB2	4405	4410	0	17	in the cable ducts
Wire	=PLC+CAB1-A2:Q0.2 – =P2+CAB2-T1:DI1	=PLC+CAB1-A2:Q0.2	=P2+CAB2-T1:DI1	Control	+CAB1 / +CAB2	3052	3060	0	11	in the cable ducts
Wire	=PLC+CAB1-A1:I0.5 – =P2+CAB2-T1:12	=PLC+CAB1-A1:I0.5	=P2+CAB2-T1:12	Control	+CAB1 / +CAB2	3094	3100	0	12	in the cable ducts
Wire	=PLC+CAB1-A1:I0.3 – =P2+CAB2-T1:14	=PLC+CAB1-A1:I0.3	=P2+CAB2-T1:14	Control	+CAB1 / +CAB2	3109	3110	0	12	in the cable ducts

Mounting plate



Door (front view)



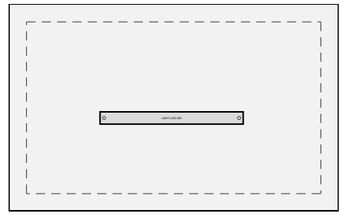
Left side



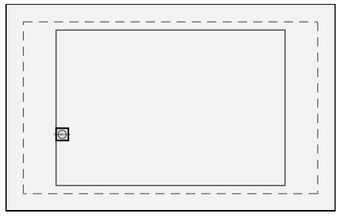
Right side



Roof



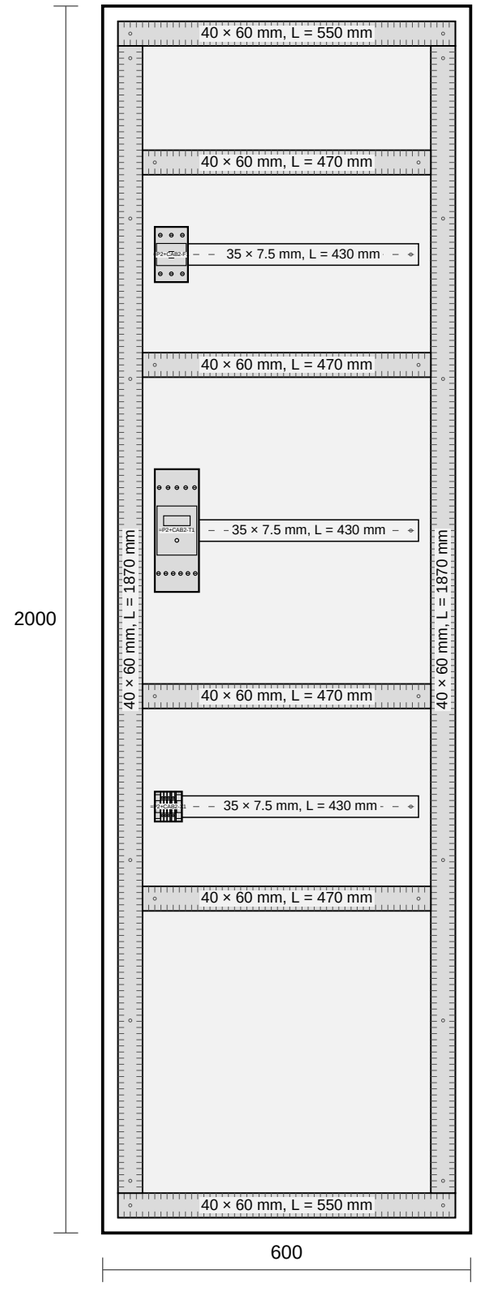
Bottom



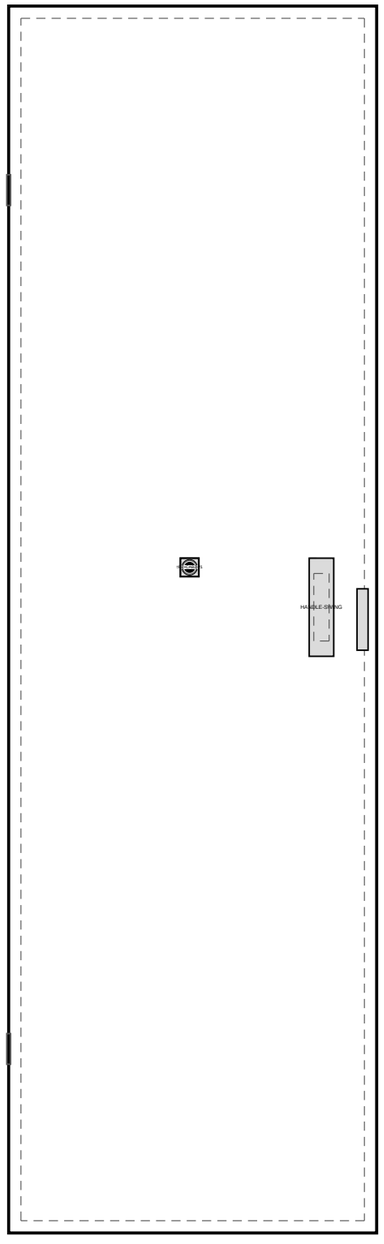
+CAB1 GEN.TS-800X2000X500 - 800 x 2000 x 500 mm - Scale 1:15

Company	Date	Revision	Project / page description	Page	Sheet
OpenECraft	2026-10-27	A	Pump station cabinets	7.1	20 / 21
	Creator	Software	Mounting layout +CAB1	Type	Project
	OpenECraft	OpenECraft		Mounting	Pump station cabinets

Mounting plate



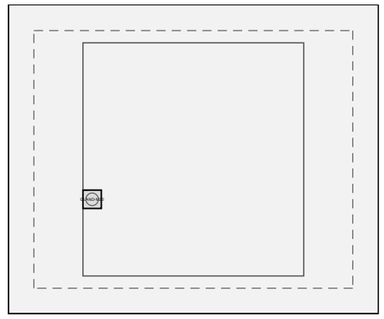
Door (front view)



Left side



Bottom



+CAB2 GEN.TS-600X2000X500 - 600 x 2000 x 500 mm - Scale 1:10

Company	Date	Revision	Project / page description	Page	Sheet
OpenECraft	2026-10-27	A	Pump station cabinets	7.2	21 / 21
	Creator	Software	Mounting layout +CAB2	Type	Project
	OpenECraft	OpenECraft		Mounting	Pump station cabinets