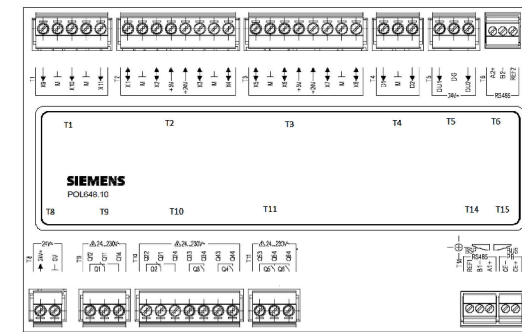
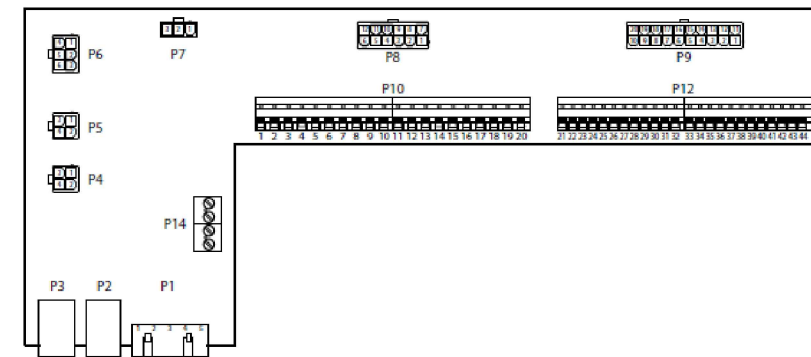


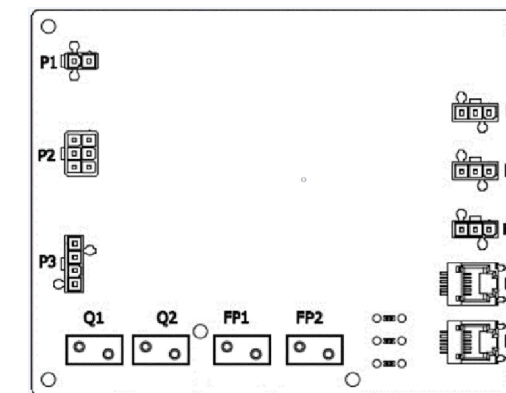
A1



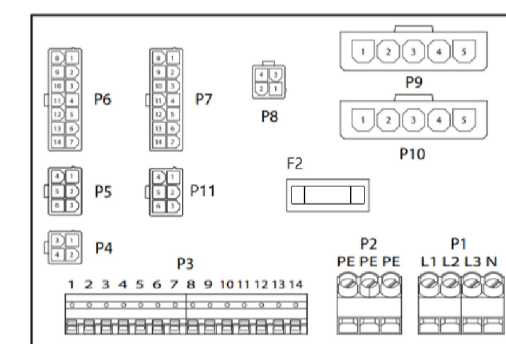
A2



A3



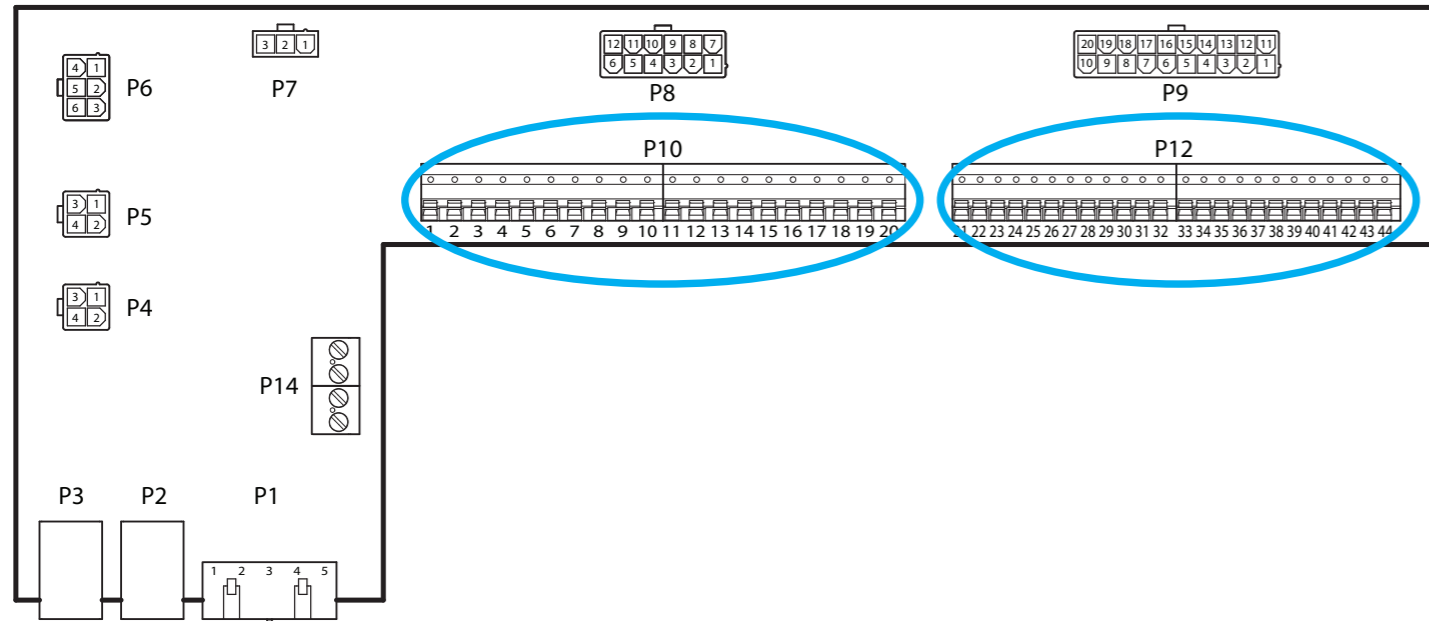
A4



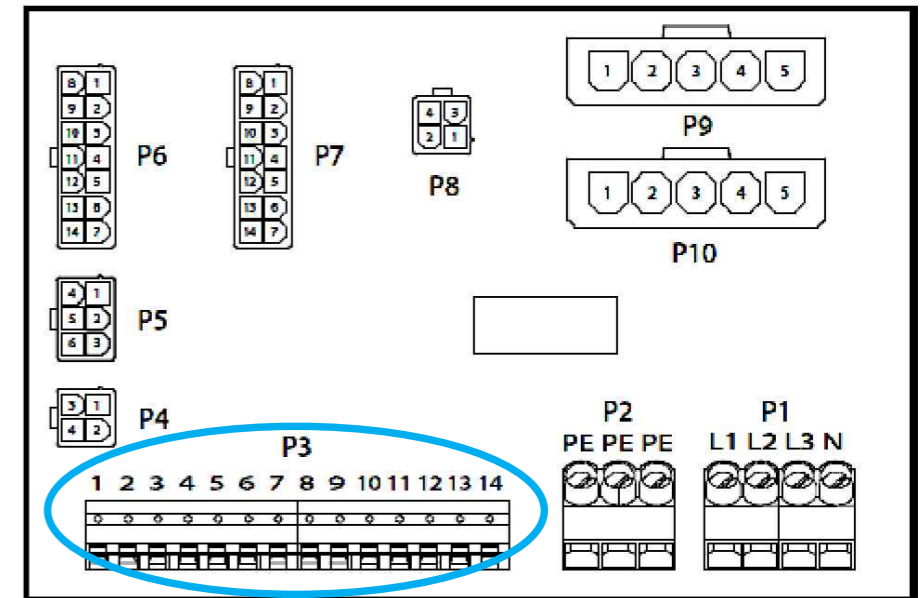
No. Unit	Pos. No.	Name, type, dim.	Drawing no. Standard	Art. No.	Matr. Spec.
Date	2021-11-17	Drawn RydKri	Projection	Scale	
Checked		Appr.			
CONNECTION DIAGRAM ProNordic L110-L270 ART.NO 118539				Replaces:	Replaced by:
				342369	

Rev.	Changes	Date/Sign.

A2



A4



120032EN-01 2020-11

External accessories

Terminal block P10 has the following signals:

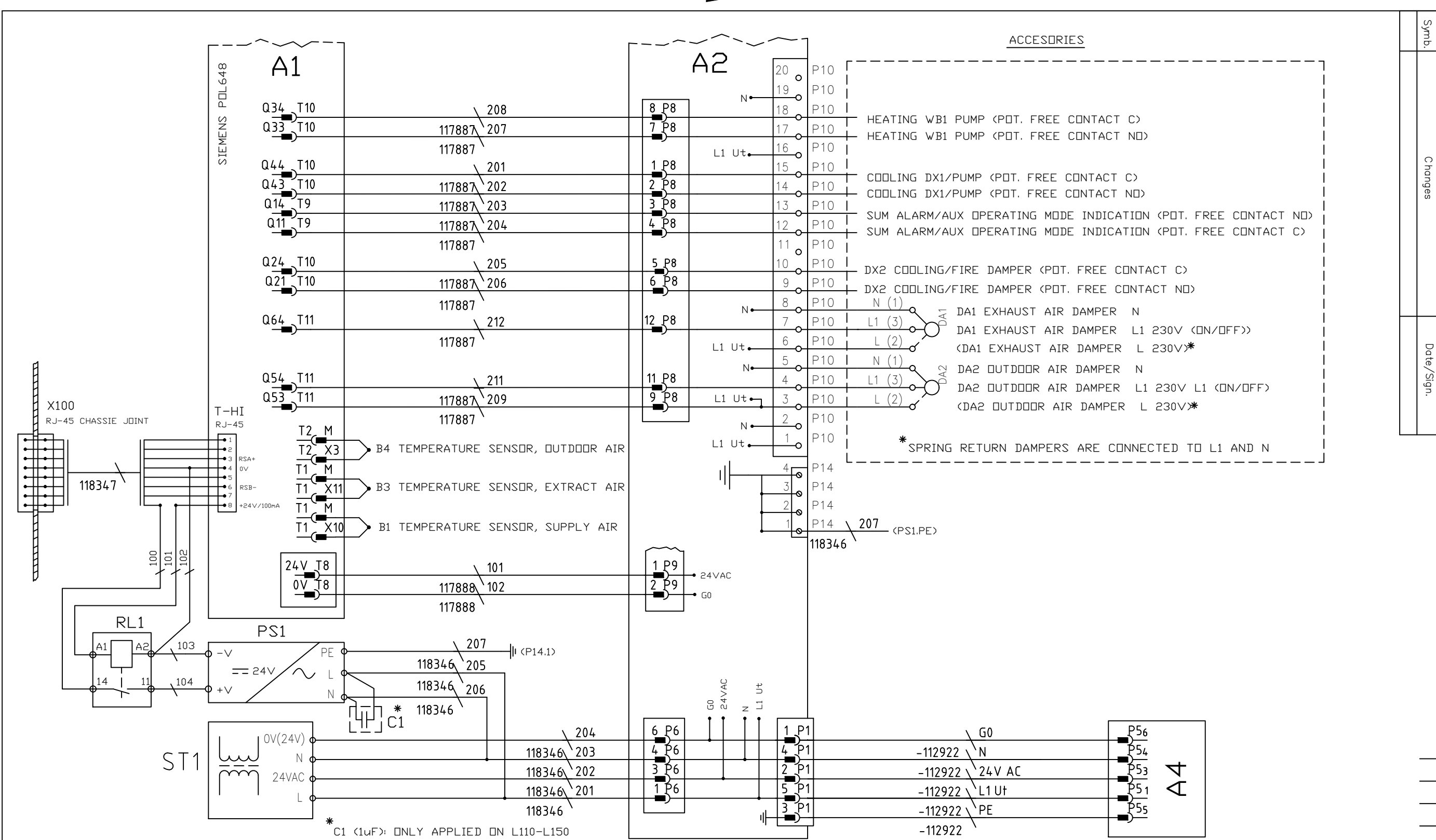
Block	Funktion	Description
1	L1 Ut (230V)	Power supply external accessories
2	N	Power supply external accessories
3	L1 Ut (230V)	Power supply Outdoor air damper
4	L1 230V	Control signal Outdoor air damper ON/OFF
5	N	Power supply Outdoor air damper
6	L1 Ut (230V)	Power supply Exhaust air damper
7	L1 230V	Control signal Exhaust air damper ON/OFF
8	N	Power supply Exhaust air damper
9	C	Pot.free contact (Cooling DX2 or Fire damper) ON/OFF
10	NO	Pot.free contact (Cooling DX2 or Fire damper) ON/OFF
11	N/A	No connection
12	C	Pot.free contact (Sum alarm / AUX Operating mode indication) ON/OFF
13	NO	Pot.free contact (Sum alarm / AUX Operating mode indication) ON/OFF
14	NO	Pot.free contact Cooling (DX1 or Pump) ON/OFF
15	C	Pot.free contact Cooling (DX1 or Pump) ON/OFF
16	L1 Ut (230V)	Power supply external accessories
17	NO	Pot.free contact Heating WB1 (pump) ON/OFF
18	C	Pot.free contact Heating WB1 (pump) ON/OFF
19	N	Power supply external accessories
20	N/A	No connection

Terminal block P12 has the following signals:

Block	Funktion	Description
21	AO 0-10V	Control signal Cooling (valve or DX)
22	G0	Signal ground Cooling
23	DI	Signal External control step 1
24	G0	Signal ground External control step 1
25	DI	Signal External control step 2
26	G0	Signal ground External control step 2
27	DI alarm	Signal Fire/Smoke input
28	G0	Signal ground External control step 3
29	AI 0-10V	Signal Air quality (e.g CO ₂)
30	G0	Signal ground Air quality
31	AO 0-10V	Control signal Heating WB1 (valve)
32	24VAC	Power supply Heating WB1 (valve), Fire damper position feedback, Fire/smoke,
33	G0	Signal ground Heating WB1 (valve)
34	DI	Signal External control step 3
35	DI	Signal Fire damper position feedback
36	G0	Signal ground
37	AO 0-10V	Control signal AUX damper
38	G0	Signal ground AUX damper
39	Universal I/O	Spare
40	G0	Spare
41	CE-	Process bus accessories (e.g.KNX-LTE)
42	CE+	Process bus accessories (e.g.KNX-LTE)
43	AI 0-10V	Supply fan external setpoint (e.g VAV)
44	AI 0-10V	Extract fan external setpoint(e.g VAV)

Terminal block P3 has the following signals:

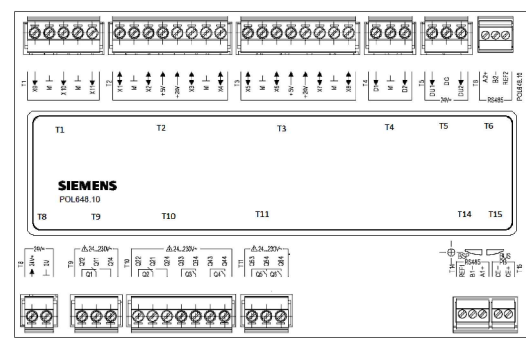
Block	Funktion	Description
1	G0	Signal ground external accessories
2	24VAC	Power supply external accessories
3	G0	Signal ground external accessories
4	AO 0-10V	EV (Not used)
5	G0	Signal ground Temp.sensor return water B5
6	DI	Overheating thermostat F10 (Not used)
7	AI	Signal Temp.sensor return water B5
8	N/A	No connection
9	N	Power supply external accessories
10	NO	EV2 (Not used)
11	C	EV2 (Not used)
12	L1 Ut (230V)	Power supply external accessories
13	N	Power supply external accessories
14	L1 Ut (230V)	Power supply external accessories



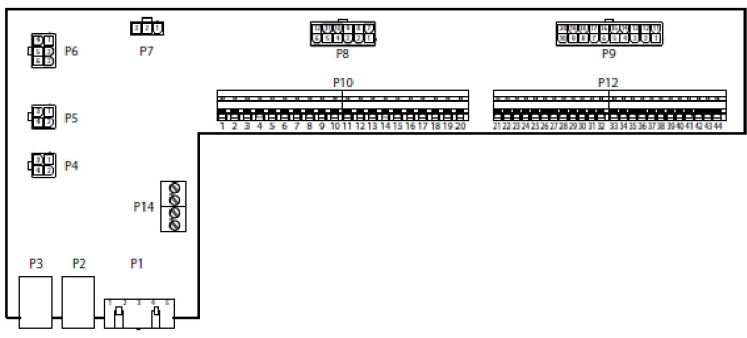
ACCESSORIES

- P10 HEATING WB1 PUMP (POT. FREE CONTACT C)
 - P10 HEATING WB1 PUMP (POT. FREE CONTACT ND)
 - P10 COOLING DX1/PUMP (POT. FREE CONTACT C)
 - P10 COOLING DX1/PUMP (POT. FREE CONTACT ND)
 - P10 SUM ALARM/AUX OPERATING MODE INDICATION (POT. FREE CONTACT ND)
 - P10 SUM ALARM/AUX OPERATING MODE INDICATION (POT. FREE CONTACT C)
 - P10 DX2 COOLING/FIRE DAMPER (POT. FREE CONTACT C)
 - P10 DX2 COOLING/FIRE DAMPER (POT. FREE CONTACT ND)
 - P10 DA1 EXHAUST AIR DAMPER N
 - P10 DA1 EXHAUST AIR DAMPER L1 230V (ON/OFF)
 - P10 <DA1 EXHAUST AIR DAMPER L 230V>*
 - P10 DA2 OUTDOOR AIR DAMPER N
 - P10 DA2 OUTDOOR AIR DAMPER L1 230V L1 (ON/OFF)
 - P10 <DA2 OUTDOOR AIR DAMPER L 230V>*
- * SPRING RETURN DAMPERS ARE CONNECTED TO L1 AND N

A1



A2

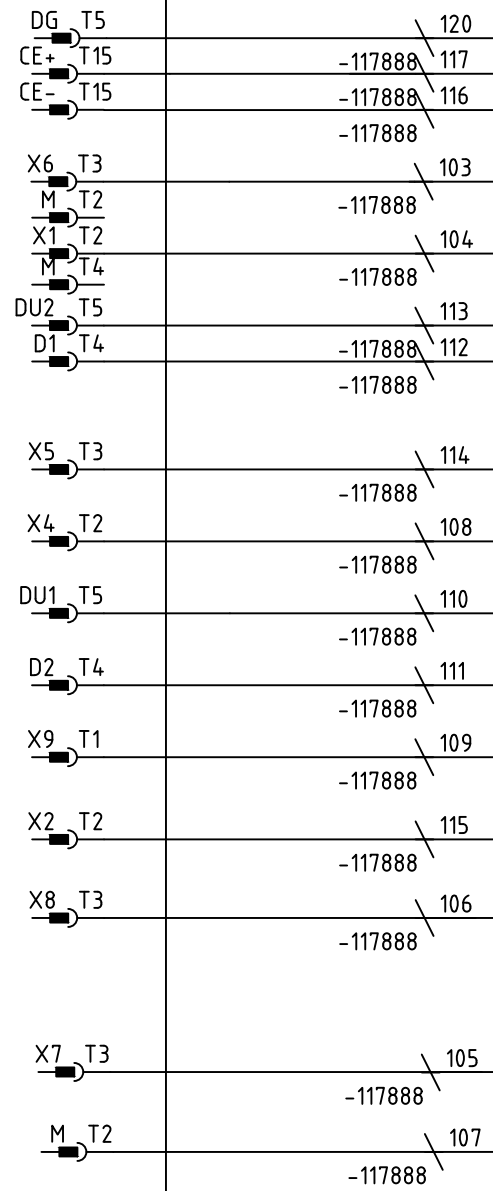


No. Unit	Pos. No.	Name, type, dim.	Drawing no. Standard	Art. No.	Matr. Spec.
Date	2021-11-17	Drawn RydKri	Projection 	Scale	
Checked		Appr.			
CONTROL UNIT A1 AND A2 SECTION 1(2) ProNordic L110-L270				Replaces:	Replaced by:
				342370	

Symb. Changes Date/Sign.

SIEMENS POL648

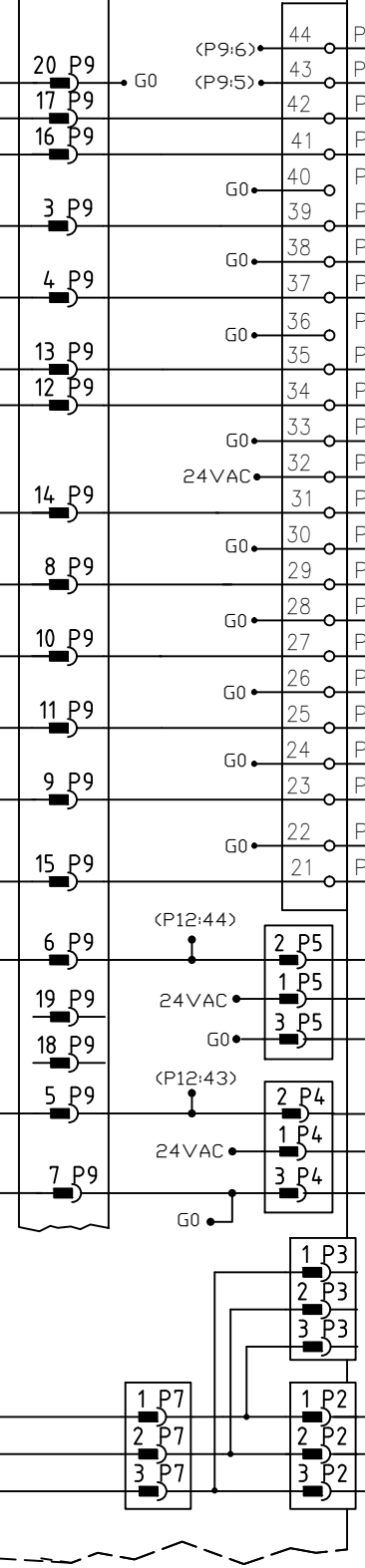
A1



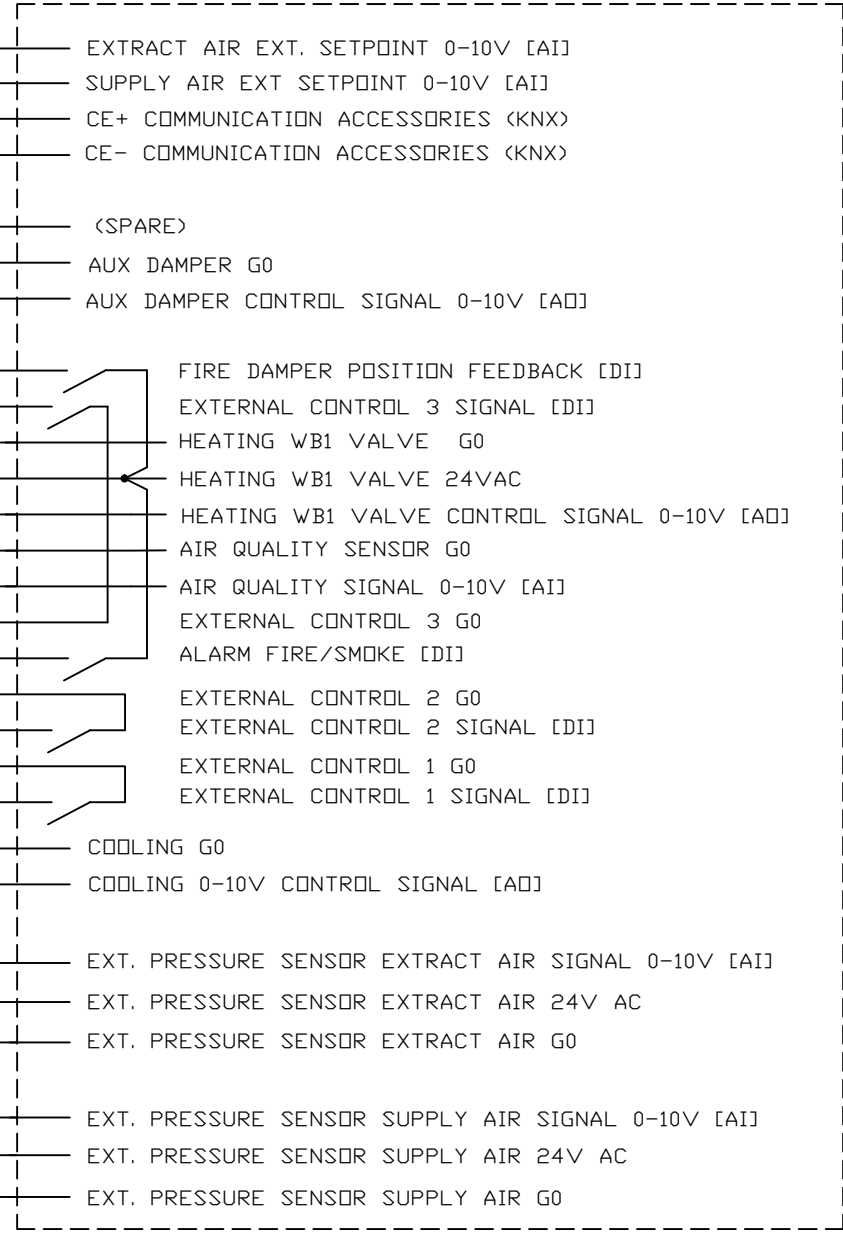
MODBUS RS485



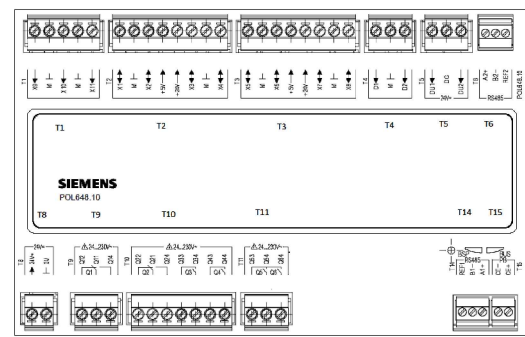
A2



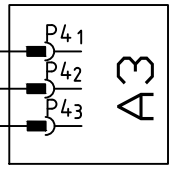
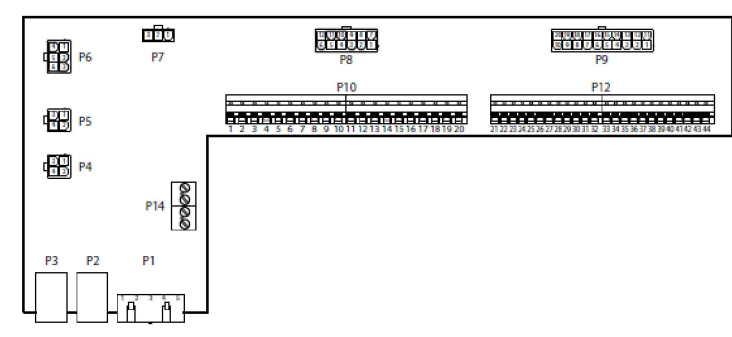
ACCESSORIES



A1



A2

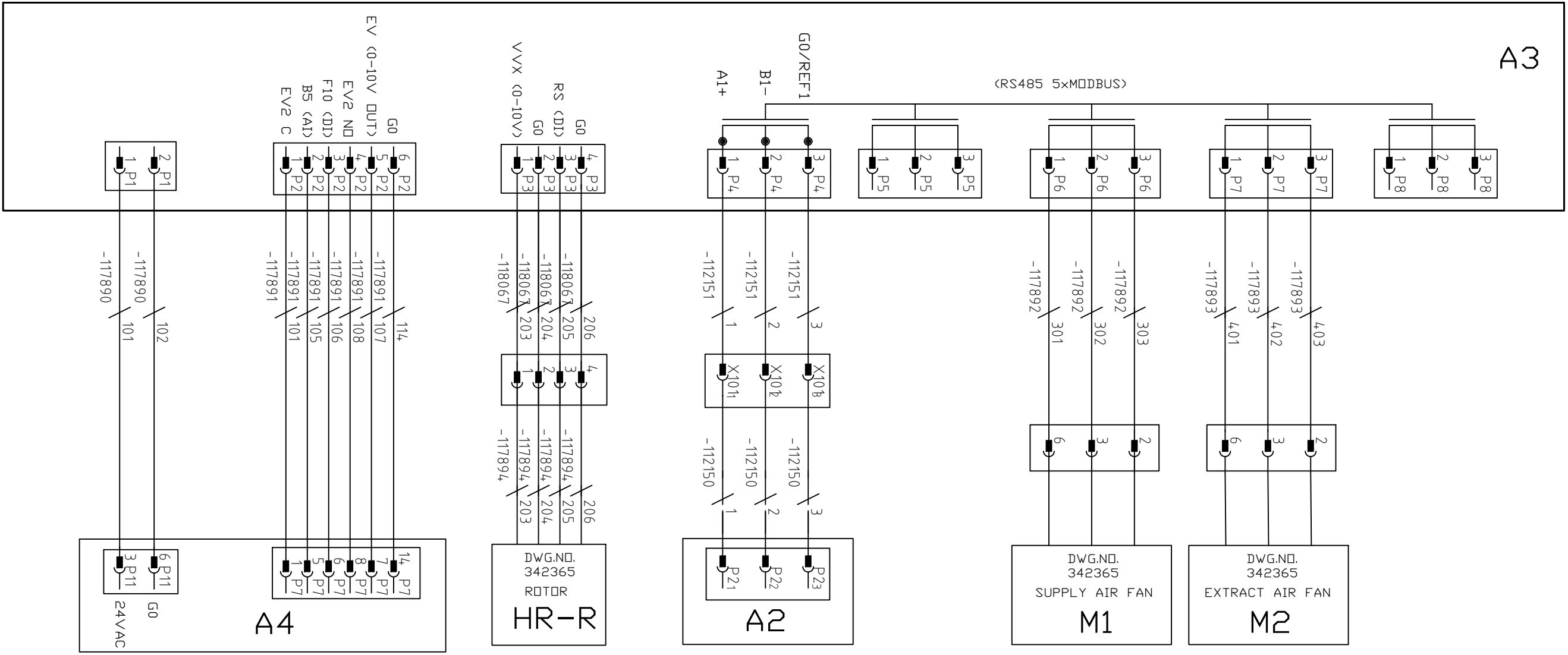


No. Unit	Pos. No.	Name, type, dim.	Drawing no. Standard	Art. No.	Matr. Spec.		
Date	2021-11-17	Drawn	RydKri	Projection	Scale		
Checked		Appr.					
CONTROL UNIT A1 AND A2						Replaces:	Replaced by:
SECTION 2(2)						342371	
ProNordic L110-L270							

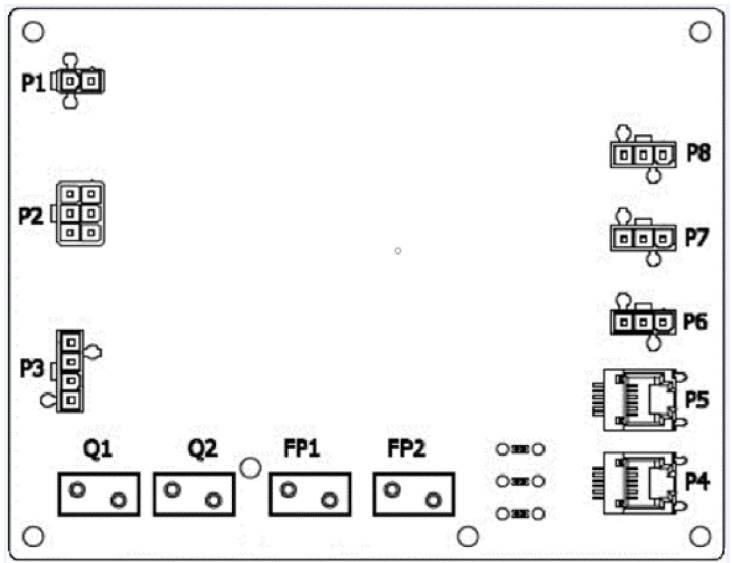
Symb. Changes Date/Sign.

Lay-out Mountain

A3

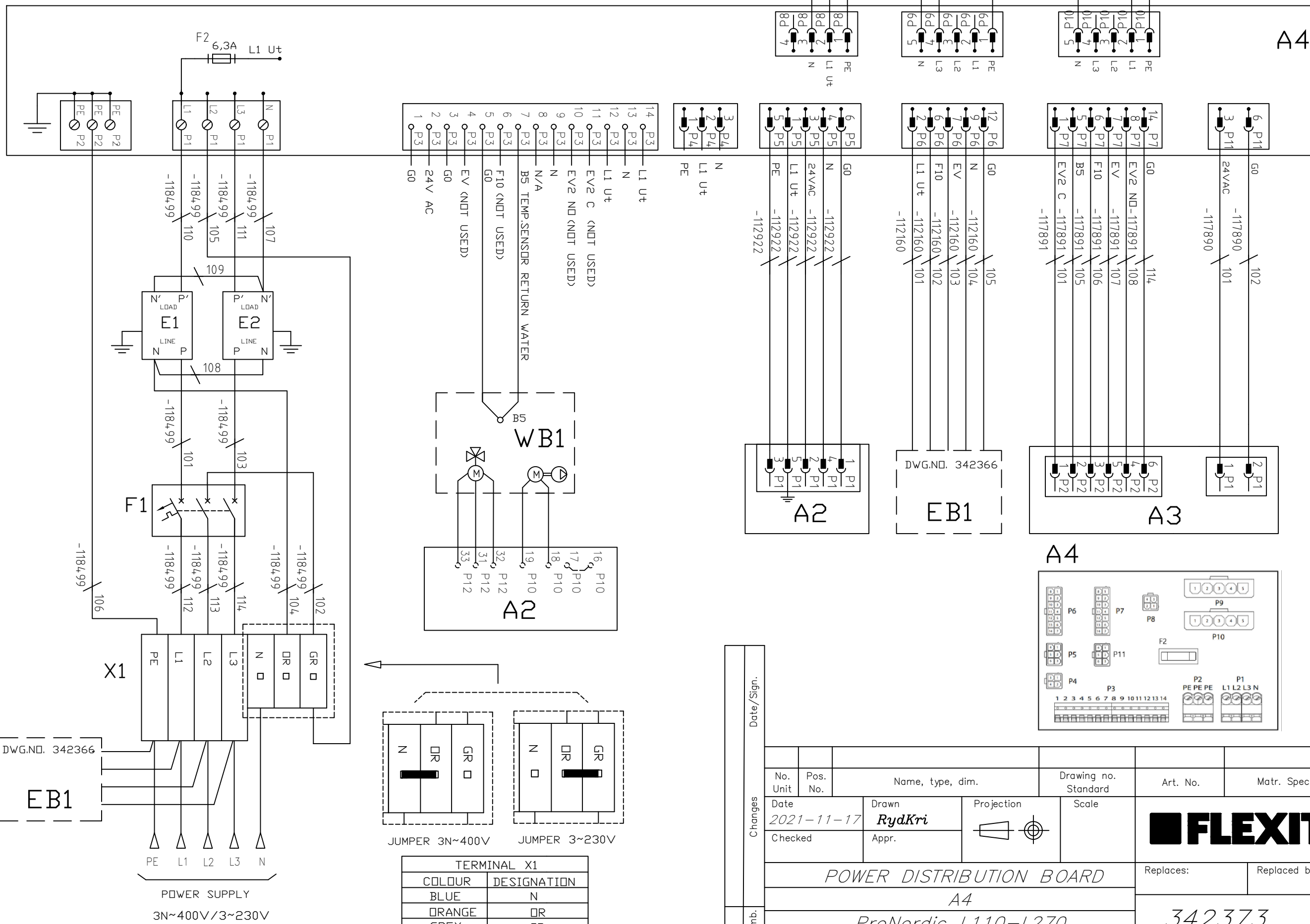


A3



Rev	Date/Sign.	Changes		Name, type, dim.	Drawing no. Standard	Art. No.	Matr. Spec.		
		No. Unit	Pos. No.						
		Date	2021-11-17	Drawn	RydKri	Projection	Scale		
		Checked		Appr.					
MODBUS I/O-EXTENDER								Replaces:	Replaced by:
A3								342372	
ProNordic L110-L270									

A4



DWG.NO. 342366

EB1

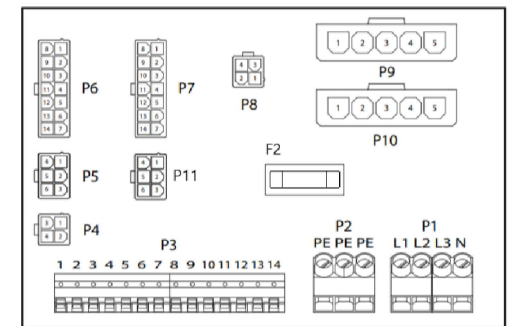
X1

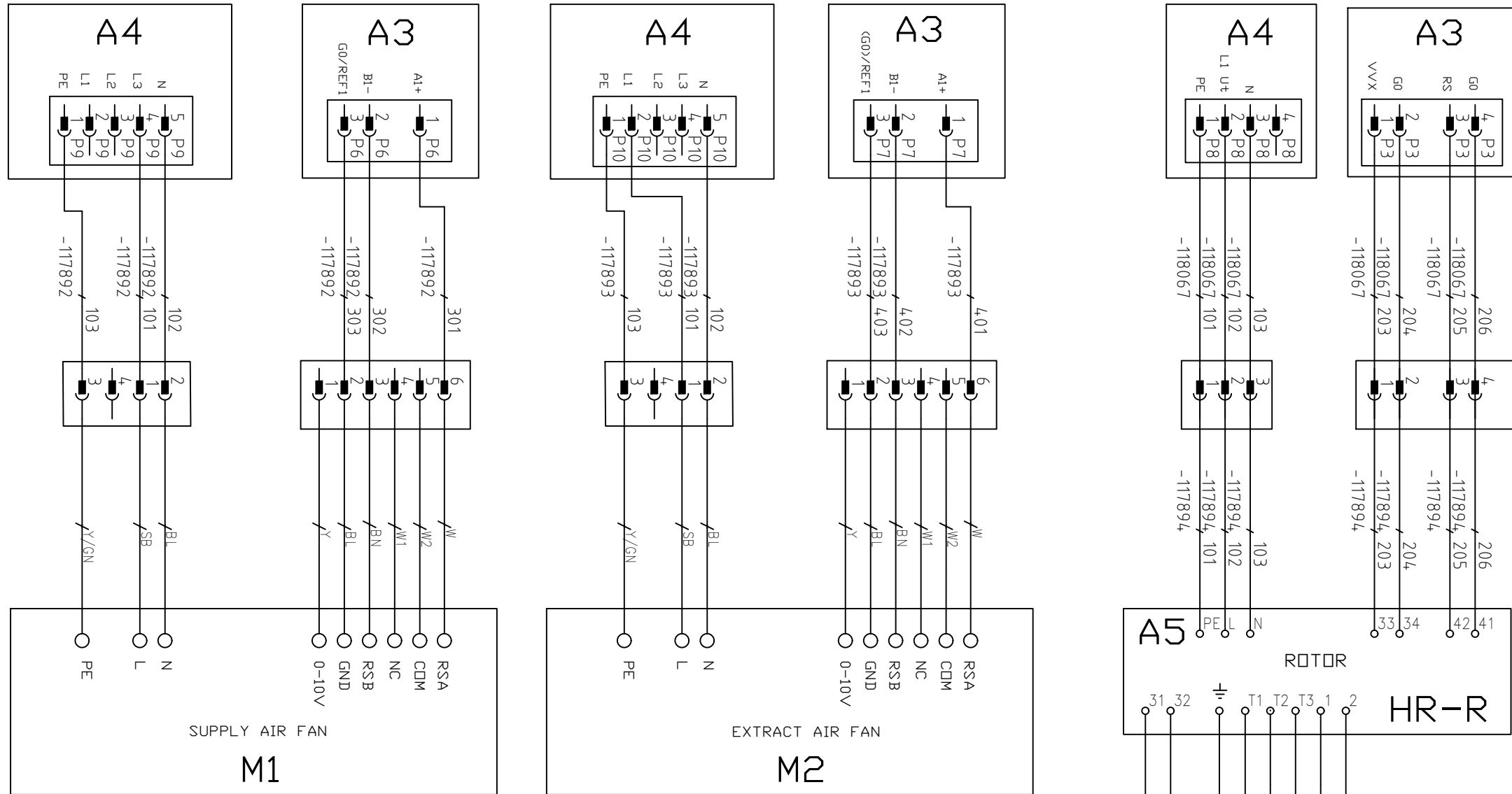
POWER SUPPLY
3N~400V/3~230V

JUMPER 3N~400V JUMPER 3~230V

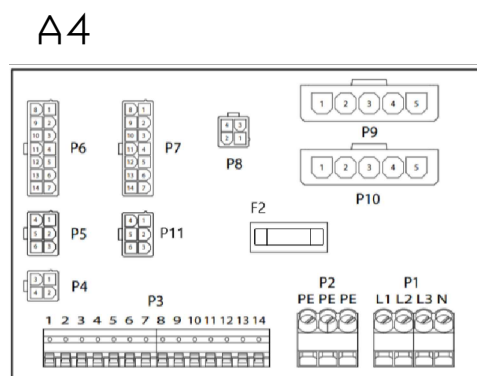
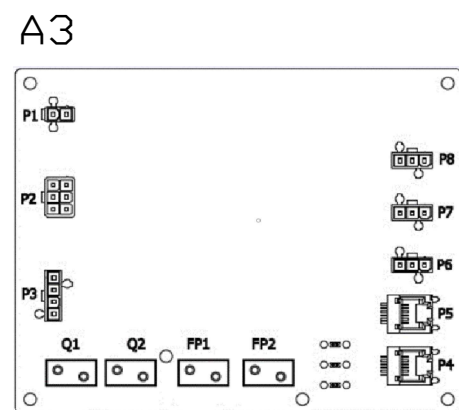
TERMINAL X1	
COLOUR	DESIGNATION
BLUE	N
ORANGE	OR
GREY	GR

Changes	No. Unit	Pos. No.	Name, type, dim.	Drawing no. Standard	Art. No.	Matr. Spec.
	Date	2021-11-17	Drawn RydKri	Projection	Scale	
	Checked		Appr.			
<p>POWER DISTRIBUTION BOARD</p> <p>A4</p> <p>ProNordic L110-L270</p>					Replaces:	Replaced by:
					342373	





DESIGNATION	L110/L150	L190/L230/L270
M1	500W	750W
M2	500W	750W
HR-R(M4)	40W	40W



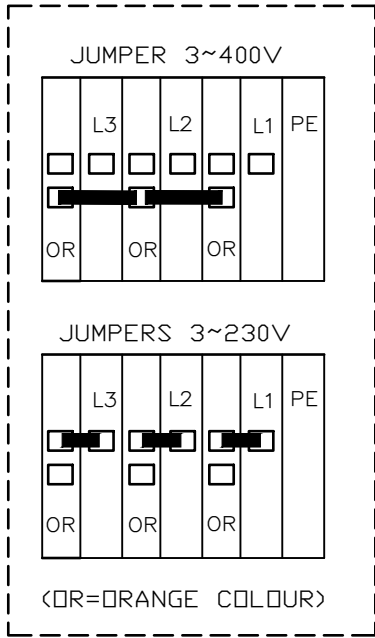
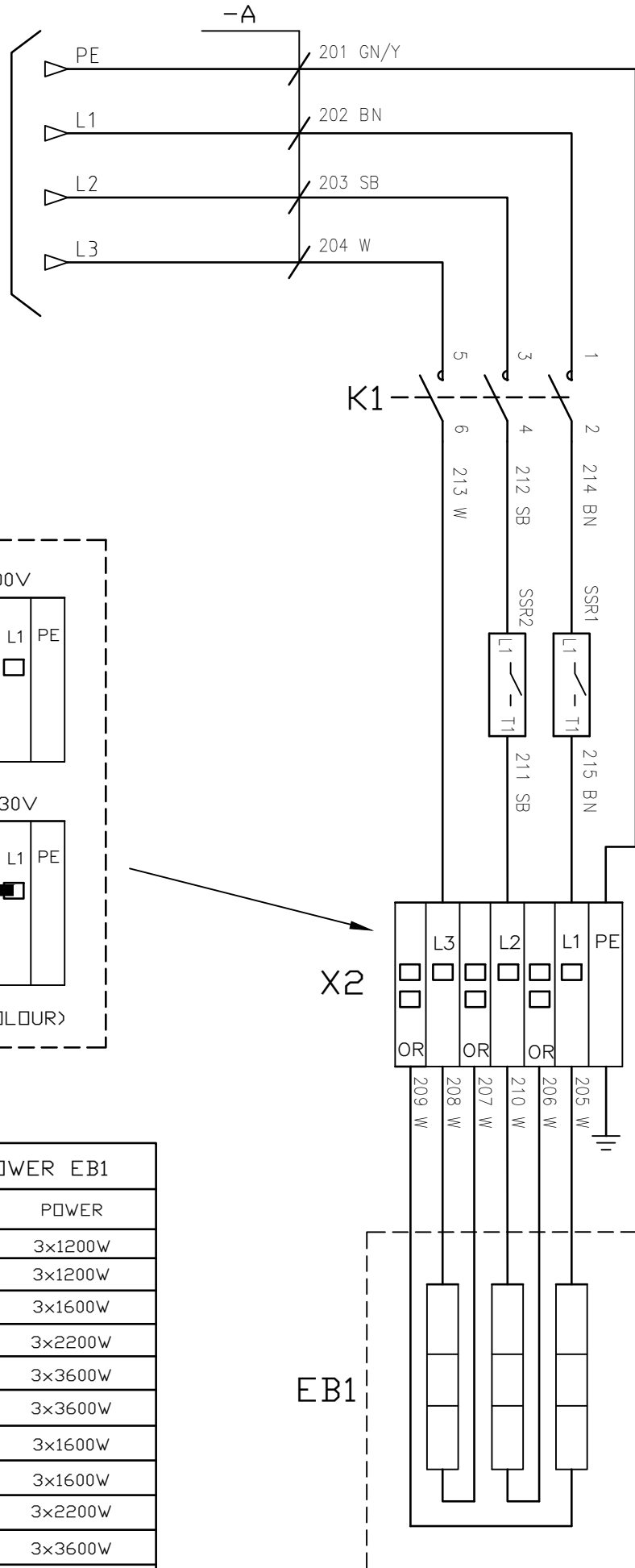
Date/Sign.	No. Pos.		Name, type, dim.	Drawing no. Standard	Art. No.	Matr. Spec.
	Unit	No.				
Changes	Date	2021-11-17	Drawn	RydKri	Projection	Scale
	Checked		Appr.			
Symb.	FANS + ROTOR				Replaces:	Replaced by:
	M1, M2 AND HR-R				342375	
	ProNordic L110-L270					

Lay-out Moun*tain

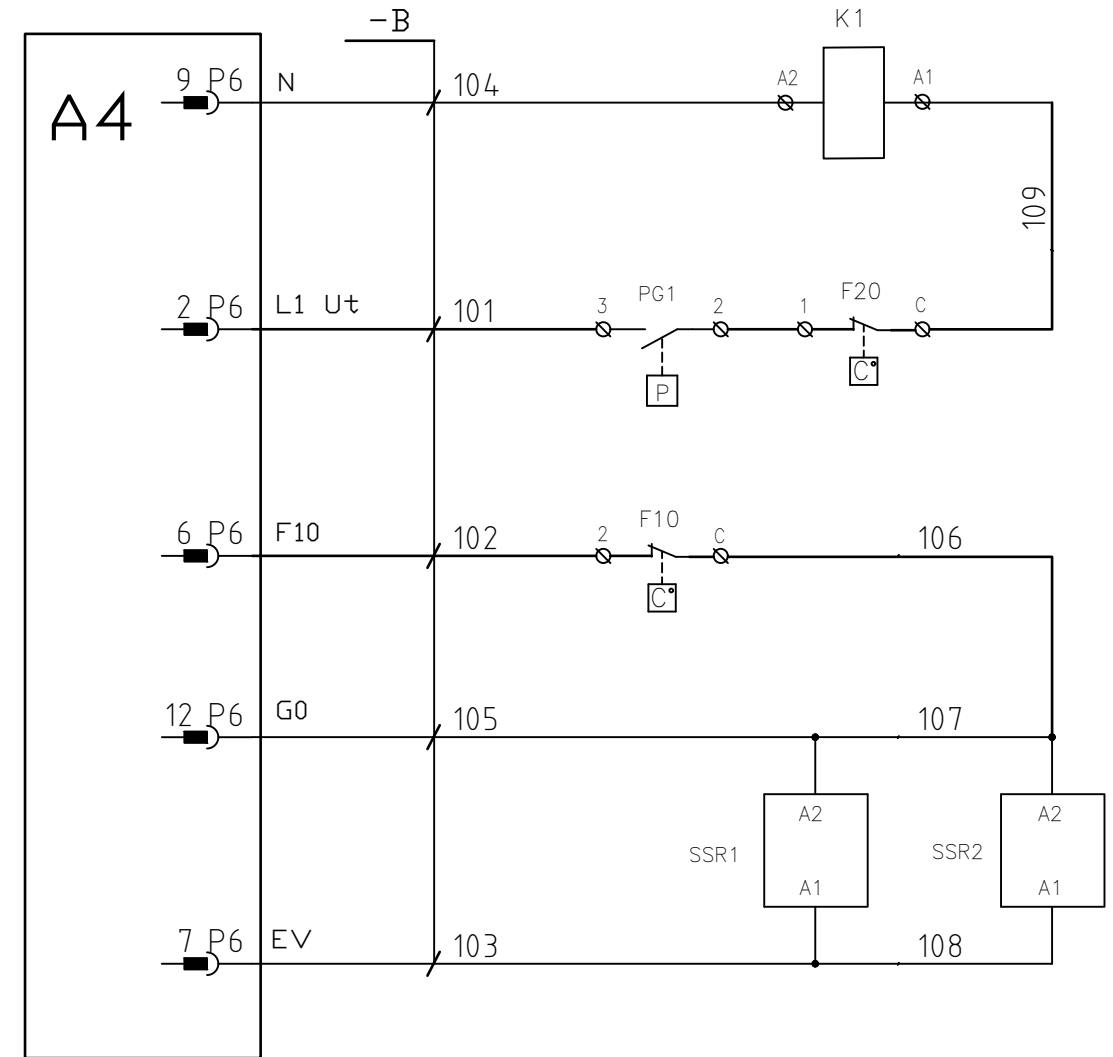
COLOUR ABBREVIATIONS

BLACK	WHITE	RED	BLUE	YELLOW	GREEN	GREY	BROWN	ORANGE	PINK	VIOLET
SB	W	R	BL	Y	GN	GR	BN	OR	P	V

FROM X1
DWG.NO 342366
ALT. 342373



HEATING POWER EB1	
UNIT MODEL	POWER
S100	3x1200W
S140	3x1200W
S180	3x1600W
S220	3x2200W
S240	3x3600W
S260	3x3600W
L110	3x1600W
L150	3x1600W
L190	3x2200W
L230	3x3600W
L270	3x3600W



UNIT MODEL	ELECTRIC HARNESS ART.NO	
	-A	-B
S100-S220	112161	112160
S240-S260	112907	112939
L110-L190	112161	112160
L230-L270	112907	112939

Rev.	Date/Sign.		Name, type, dim.		Drawing no. Standard	Art. No.	Matr. Spec.
	No. Unit	Pos. No.	Drawn	Projection	Scale		
	Date	2021-05-26	RydKri	Checked	Appr.		
<p style="text-align: center;"><i>ELECTRIC HEATER</i> <i>EB1</i></p> <p style="text-align: center;"><i>ProNordic S100-S260/L110-L270</i></p>						Replaces:	Replaced by:
						342366	

DESCRIPTION	NO	EN	SV	DA	FI
A1	Regulator	Regulator	Regulator	Styresystem	Ohjausjärjestelmä
A2	Koblingskort	Connection board	Anslutningskort	Klemmekort	Riviliitinkortti
A3	Modbusextender	Modbus extender	Modbusextender	Modbusextender	Modbus-laajennin
A4	Strømforsyningskort	Power supply board	Strömförsörjningskort	Strømforsyningskort	Virransyöttökortti
A5	Styresignaler til rotor	Rotor controller	Rotorstyrning	Styresignaler til rotor	Roottorin ja lämpötila
B1	Temperaturføler, tilluft	Temperature sensor, supply air	Temperaturgivare, tilluft	Temperaturføler, indsugningsluft	Tuloilma-anturi
B3	Temperaturføler, avtrekk	Temperature sensor, extract air	Temperaturgivare, frånluft	Temperaturføler, udsugning	Lämpötila-anturi, poistoilma
B4	Temperaturføler, uteluft	Temperature sensor, outdoor air	Temperaturgivare, uteluft	Temperaturføler, udeluft	Lämpötila-anturi, ulkoilma
B5	Returvannsføler vannbatteri	Returnwater sensor, water battery	Returvattengivare, vattenbatteri	Temperaturføler, vandvarmevlade	Lämpötila-anturi, vesipatteri
DA1	Avkastspjæld	Exhaust air damper	Avluftsspjäll	Spjæld, udsugningsluft	Sulkupelti, poistoilma
DA2	Uteluftspjæld	Outdoor air damper	Uteluftsspjäll	Spjæld, udeluft	Sulkupelti, ulkoilma
EB1	Ettervarmebatteri, elektrisk	Heating battery, electrical	Eftervarmebatteri, elektrisk	Eftervarmeflade, elektrisk	Lämmityspatteri, sähkö
F1	Sikring	Fuse	Säkring	Sikring	Sulake
F10	Overopphetningstermostat EB1 Manuell reset	Thermostat overheating EB1 Manual reset	Överhettningstermostat EB1 Manuell återställning	Overophedningstermostat EB1 Manuel resetfunktion	Yliämpötermostaatti EB1 Manuaalinen nollaus
F20	Overhettningstermostat EB1 Automatisk reset	Thermostat overheating EB1 Automatic reset	Överhettningstermostat EB1 Automatisk återställning	Overophedningstermostat EB1 Automatisk reset	Termostaatti EB1 Automaattinen nollaus
M1	Tilluftsvifte	Supply air fan	Tilluftsflykt	Indsugningsventilator	Tuloilmapuhallin
M2	Avtrekksvifte	Extract air fan	Frånluftsflykt	Udsugningsventilator	Poistoilmapuhallin
M4	Rotormotor	Rotor motor	Rotormotor	Rotormotor	LTO-kiekon mootori
PG1	Trykkvakt, EB1	Pressure Guard, EB1	Tryckvakt, EB1	Pressostat, EB1	Paine-eroanturi, EB1
P10	Rotorvakt	Rotation detector	Rotationsvakt	Rotations detektor	Pyöritys ilmaisin
S1	Styrepanel	Control panel	Styrpanel	Styrepanel	Ohjauspaneeli
ST1	Transformator	Transformer	Transformator	Transformator	Muuntaja
WB1	Ettervarmebatteri, vann	Heating battery, water based	Eftervarmebatteri, vatten	Eftervarmeflade, vand	Lämmityspatteri, vesi
HR-R	Rotor	Rotor	Rotor	Rotor	Roottorin
F2	Sikring, kretskort	Fuse, printed circuit boards	Säkring, kretskort	Sikring, printkort	Sulake, piirikortti
K1	Kontaktor, EB1	Contact, EB1	Kontaktor, EB1	Kontaktor, EB1	Kontaktori, EB1
SSR1, SSR2	Halvlederrelé, EB1	Solid state relay, EB1	Halvlederrelä, EB1	Halvlederrelæ, EB1	Puolijohderele, EB1
X1	Rekkeklemme, forsyning	Connector, supply voltage	Anslutningsplint, matning	Rækkeklemmer indgående forsyning	Riviliittimet – sisääntulevaa syöttöä varten
X2	Rekkeklemme, EB1	Connector terminal, EB1	Anslutningsplint, EB1	Rækkeklemmer, EB1	Riviliittimet, EB1
X100	ISDN skjøtekontakt	RJ45 contact	RJ45 skarvkontakt	RJ45-samlemuffe	RJ45-liitäntä
X101	RJ12 skjøtekontakt	RJ12 contact	RJ12 skarvkontakt	RJ12-samlemuffe	RJ12-liitäntä
X102	Skjøtekontakt	Contact	Skarvkontakt	Samlemuffe	Liitäntä
E1, E2	EMC-filter	EMC filter	EMC-filter	EMC-filter	EMC-suodatin
RL1	Relé	Relay	Relä	Relæ	Rele
PS1	24V DC strømforsyning	24V DC power supply	24V DC nättaggregat	24V DC strømforsyning	24 V DC virtalähde
C1	Kondensator	Capacitor	Kondensator	Kondensator	Kondensaattori