



F1145/F1245

Elschema **SE**

Wiring diagram **GB**

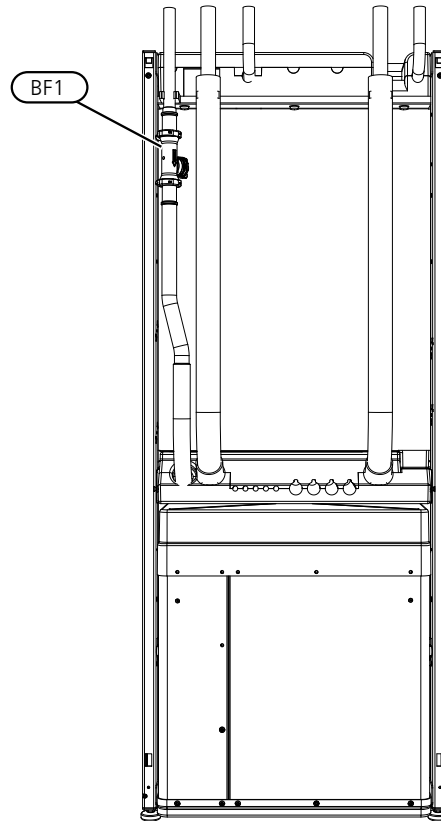
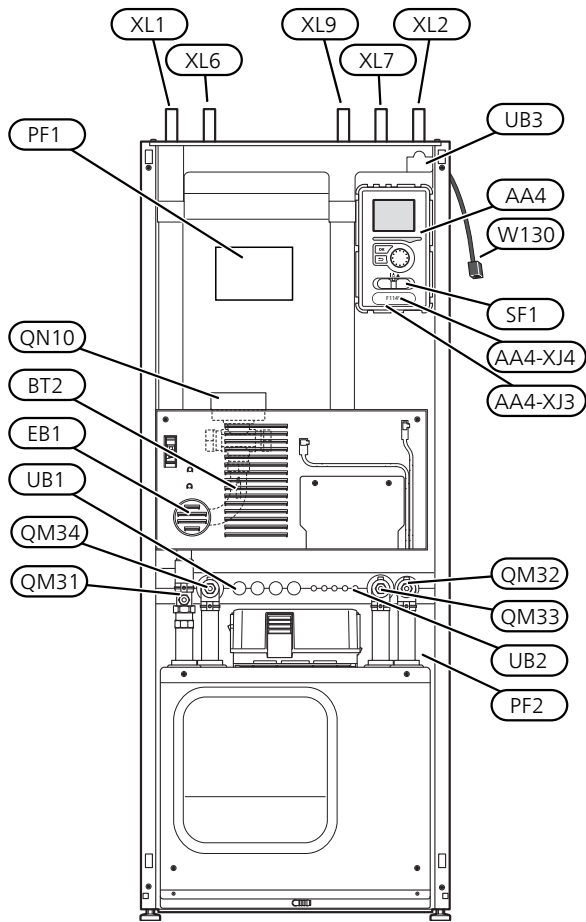
Elektrischer Schaltplan **DE**

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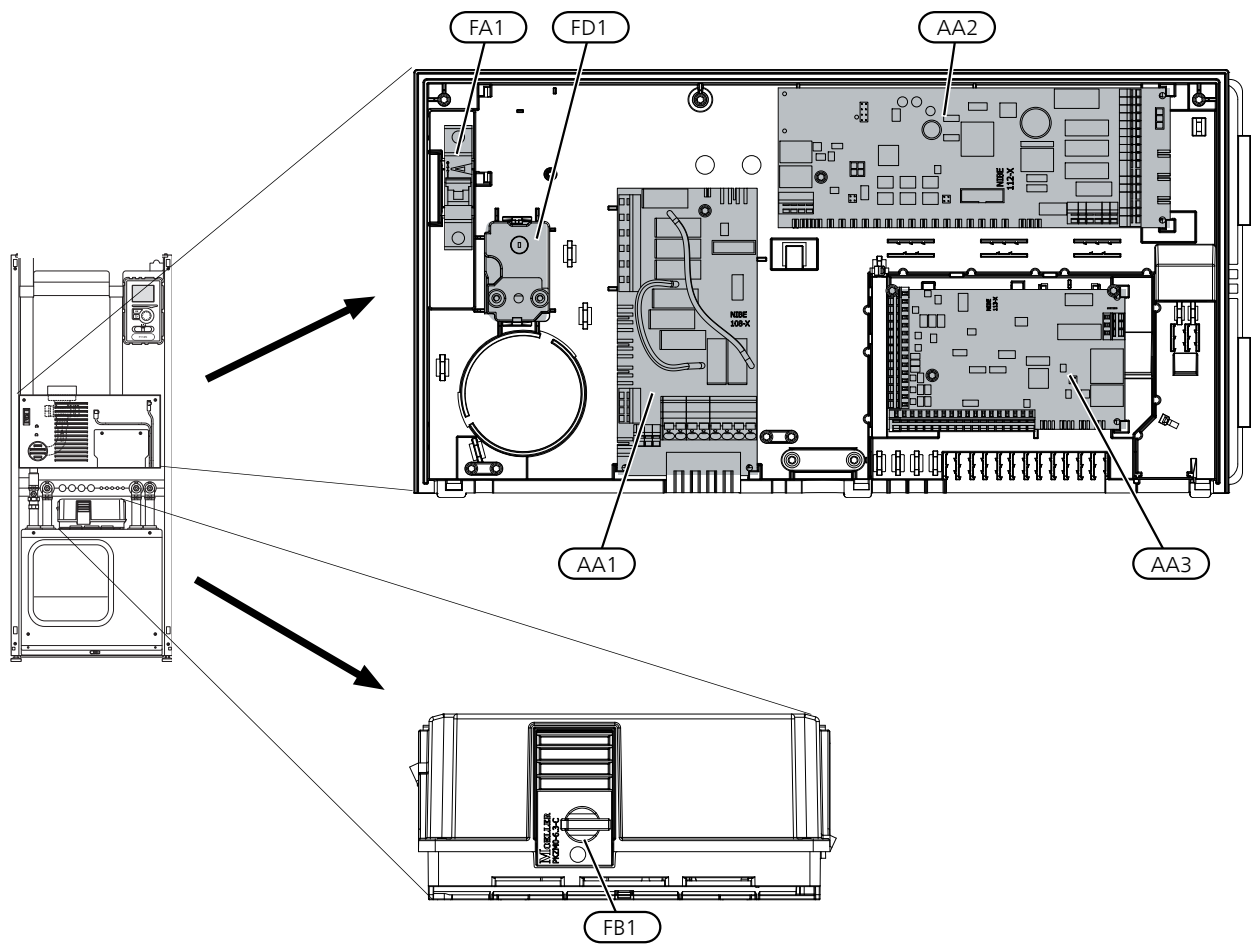
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Komponentenplacering – Component locations – Position der Komponenten

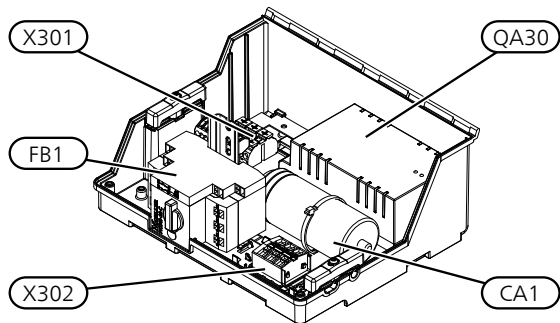
F1145



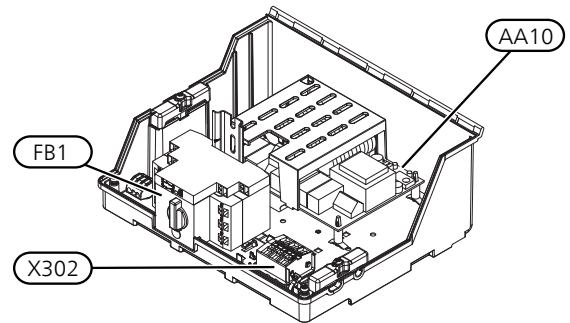
Only F1145 EM.



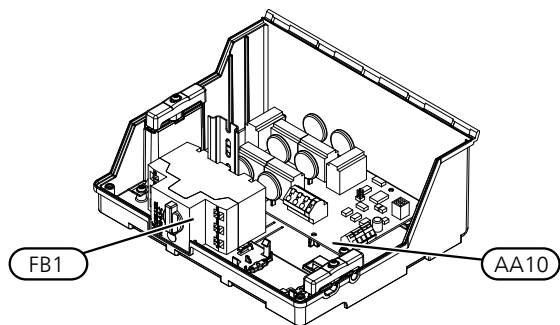
1x230V 5 - 12 kW
3x400V 5 kW



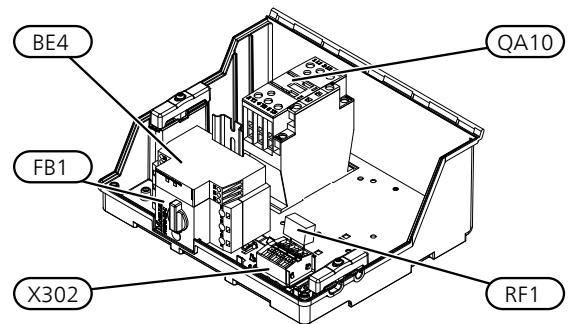
3x230V 6 - 10 kW



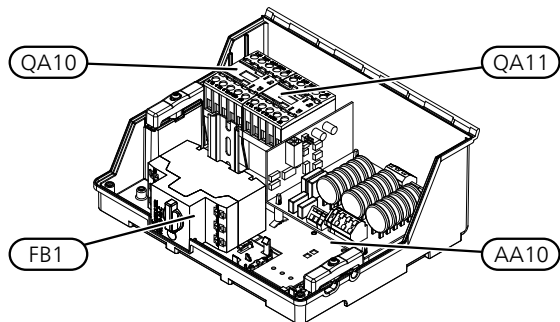
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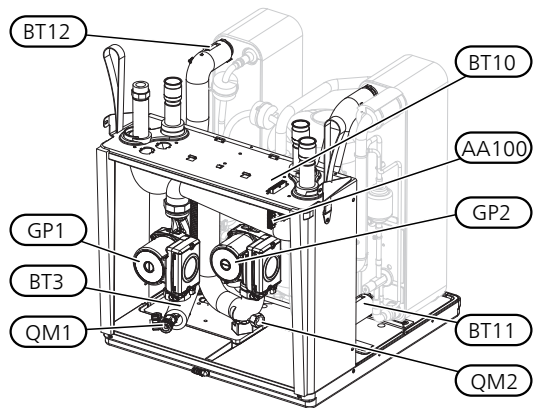
3x230V 12 - 17 kW



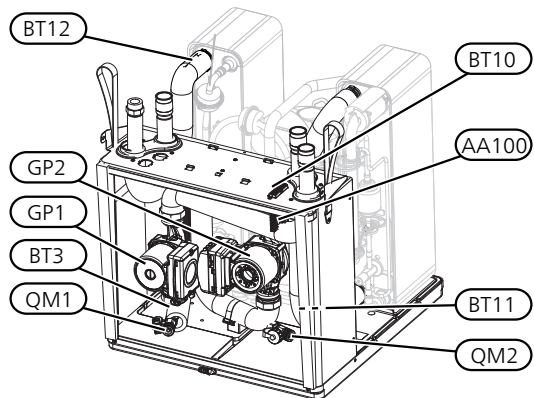
3x400V 15 - 17 kW



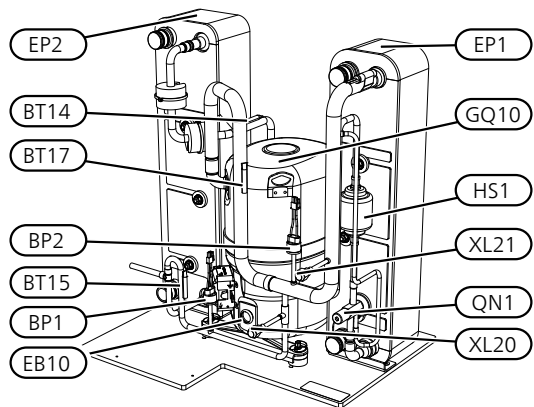
5 - 8 kW



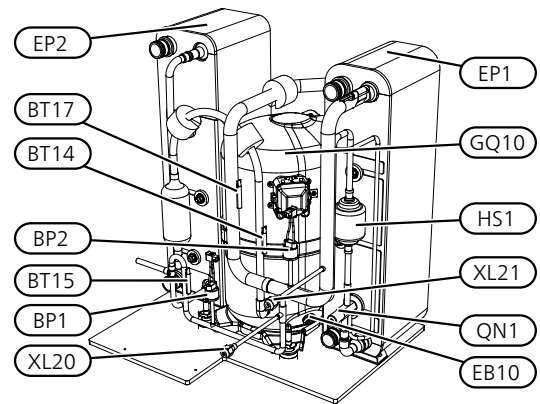
10 - 17 kW



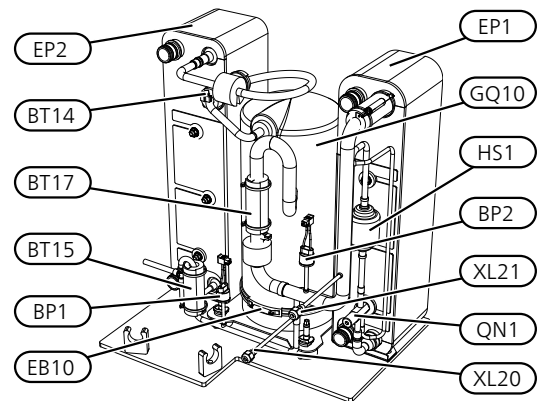
1x230V 5 kW
3x400V 5 kW



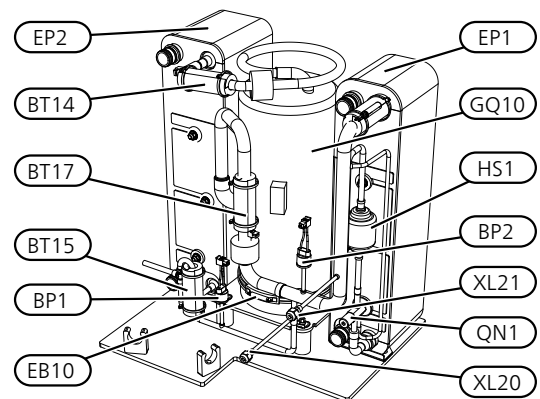
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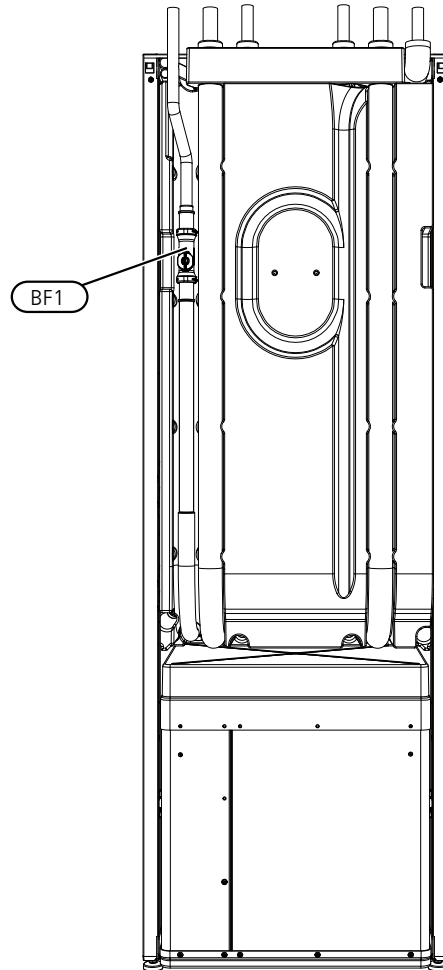
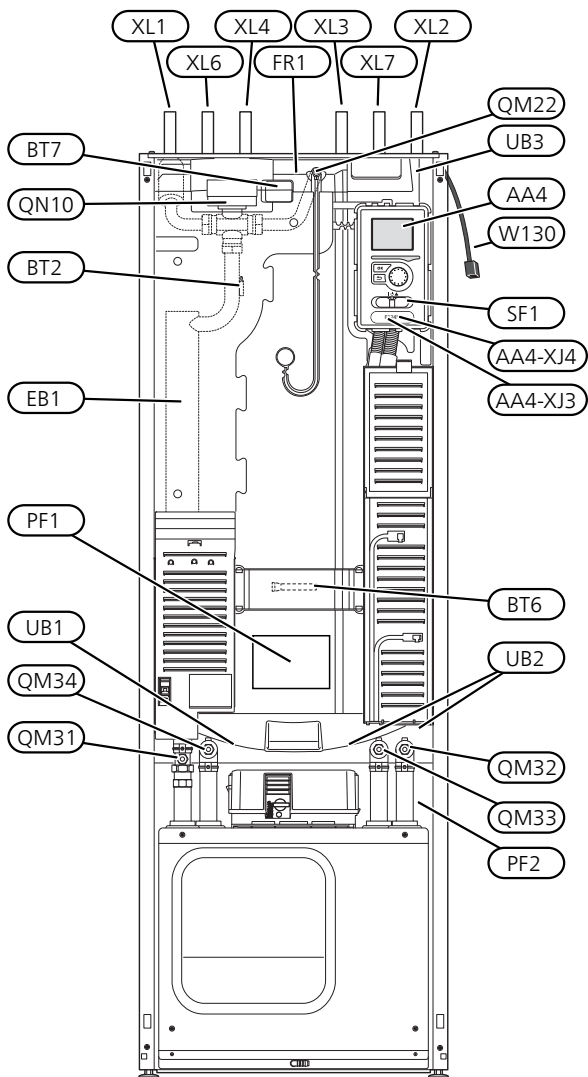
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3x400V 12 kW



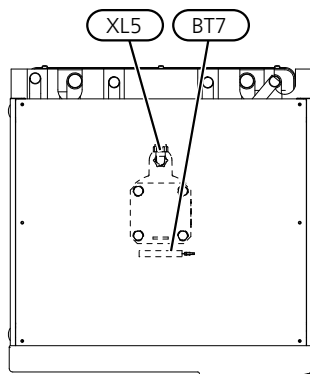
3x230V 12 - 17 kW
3x400V 15 & 17 kW

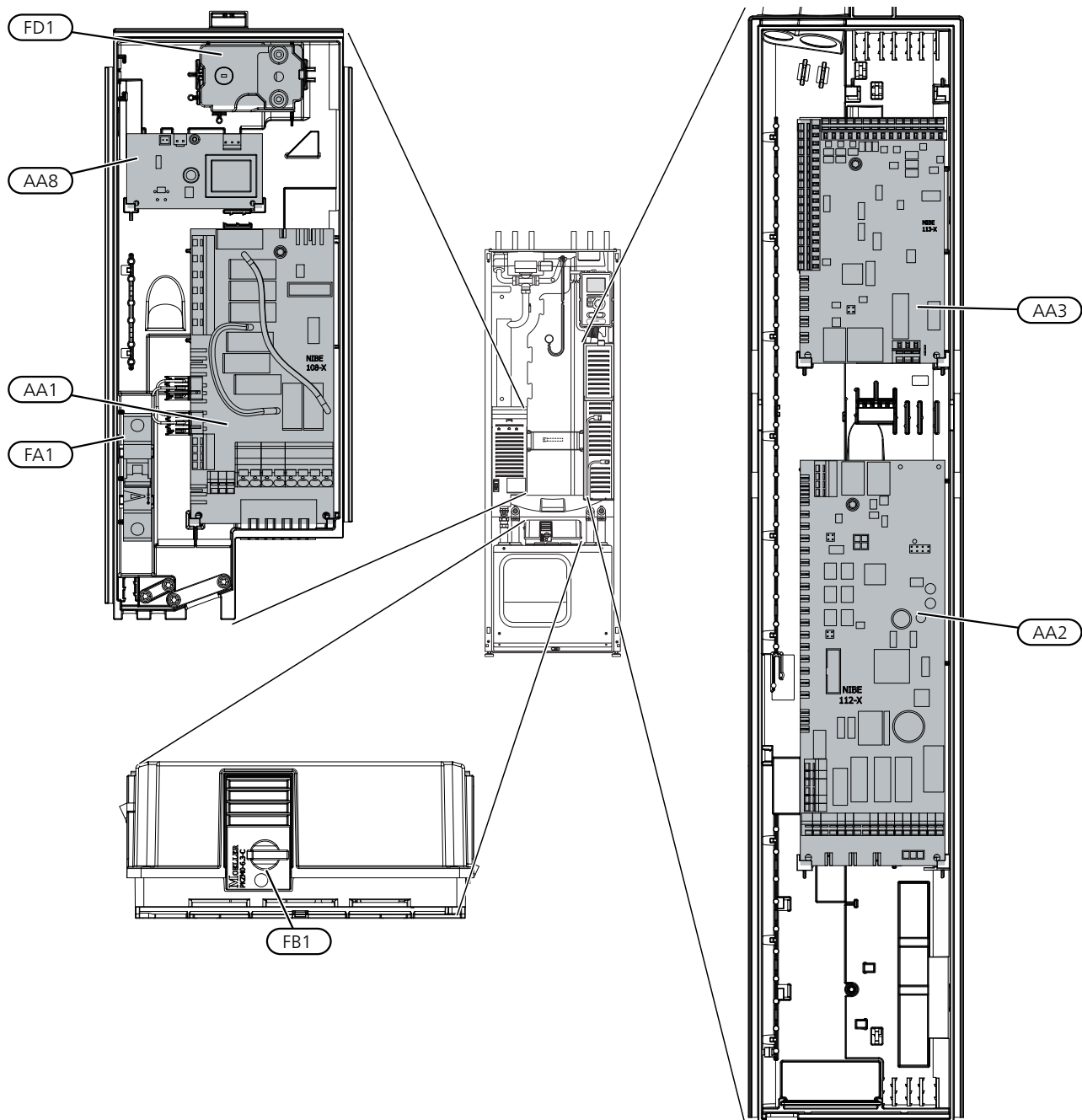


F1245

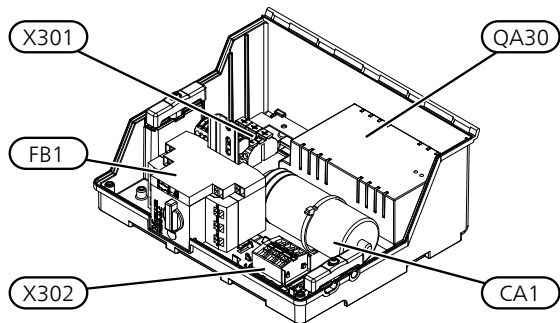


Only F1245 EM.

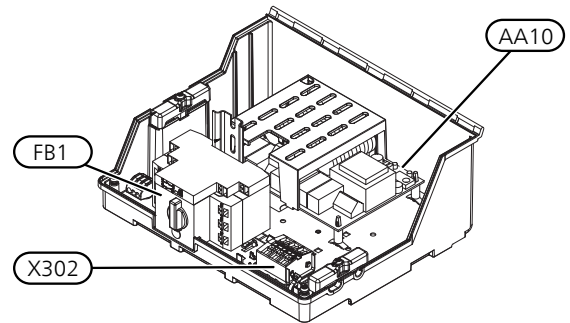




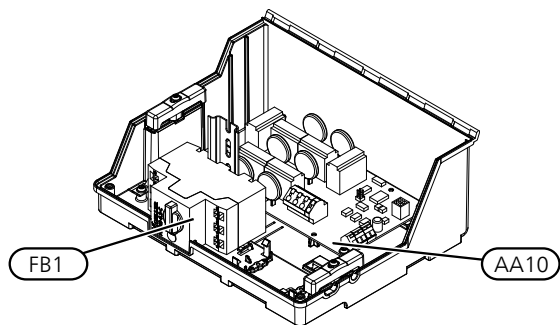
1x230V 5 - 12 kW
3x400V 5 kW



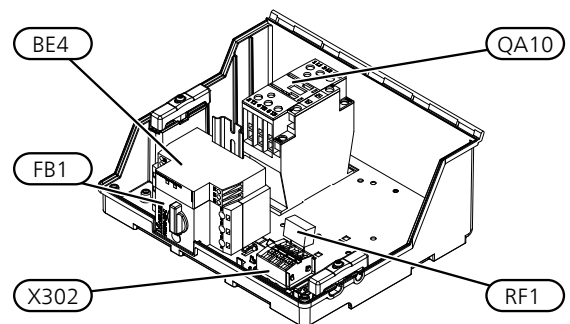
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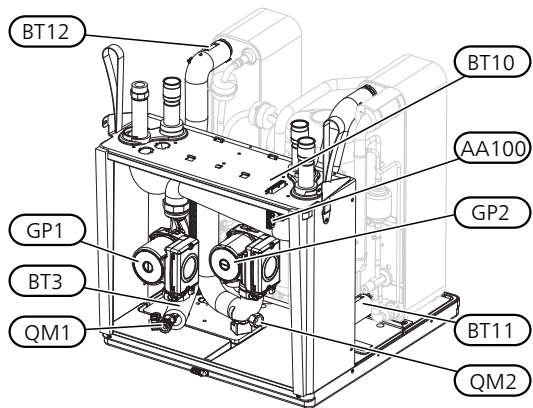
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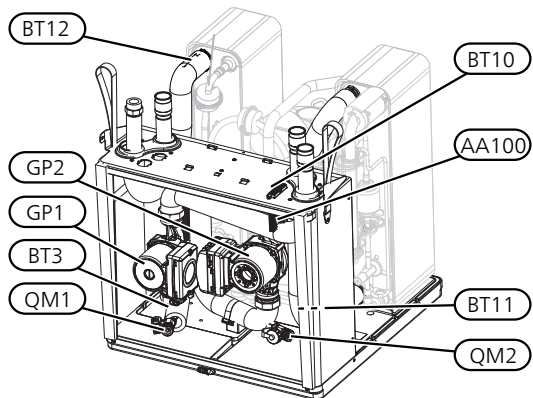
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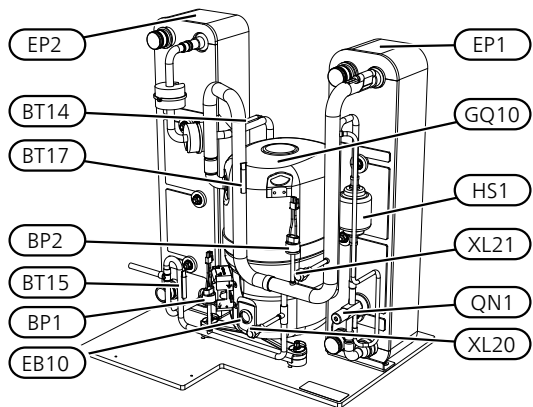
5 - 8 kW



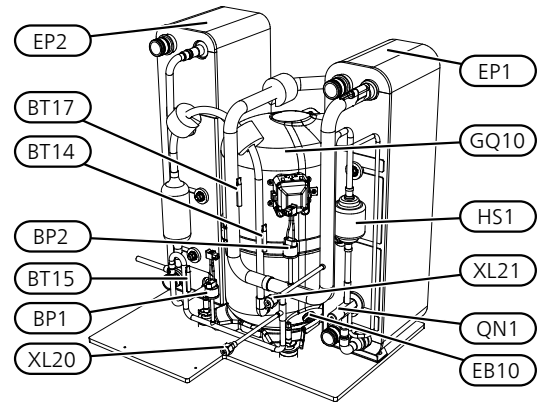
10 & 12 kW



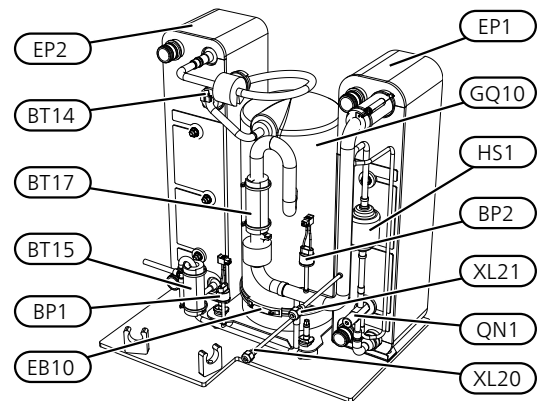
1x230V 5 kW
3x400V 5 kW



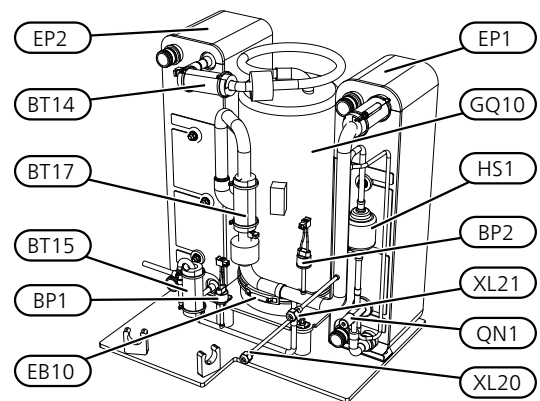
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3x400V 6 - 10 kW



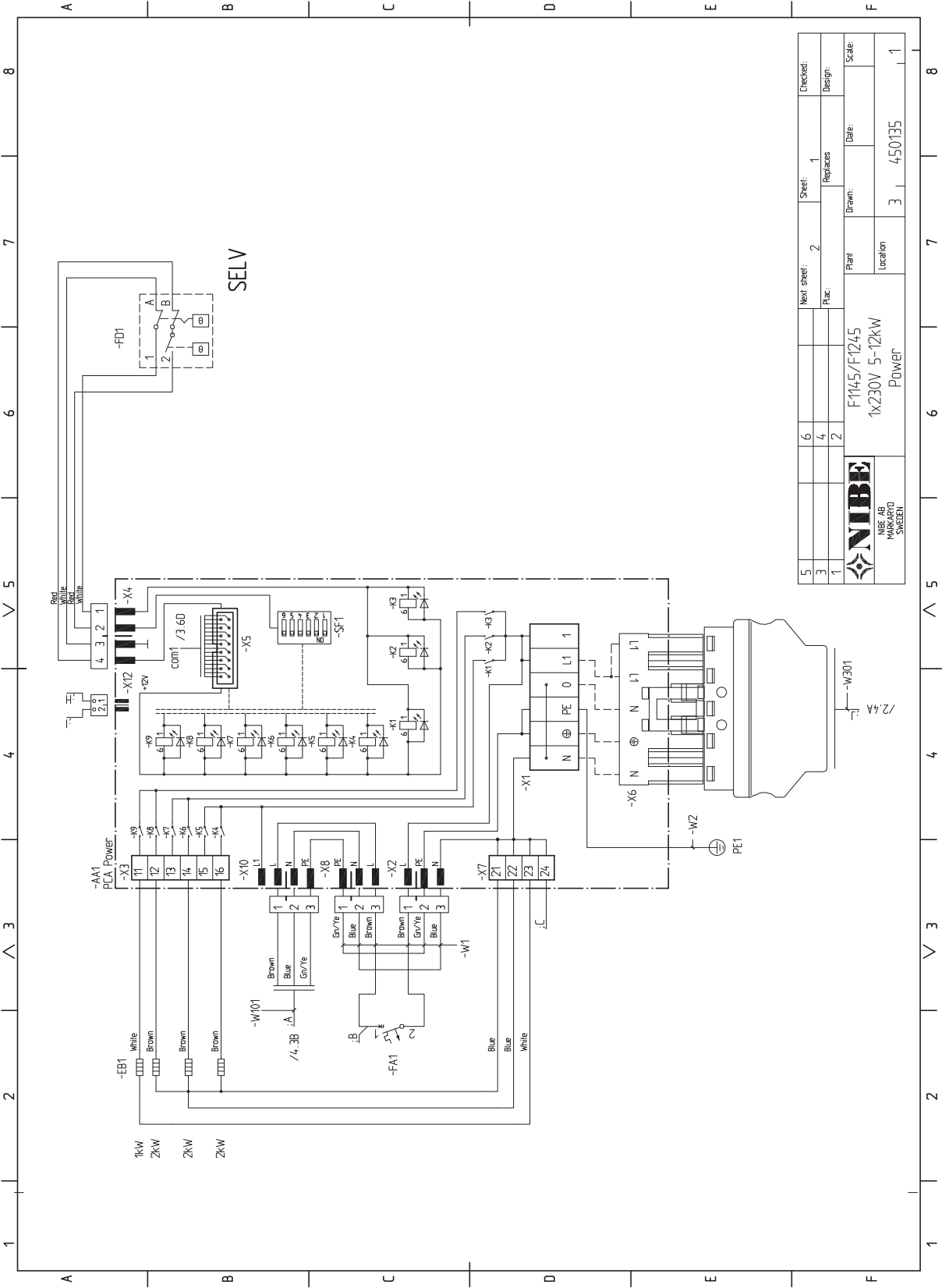
1x230V 8 - 12 kW
3x400V 12 kW

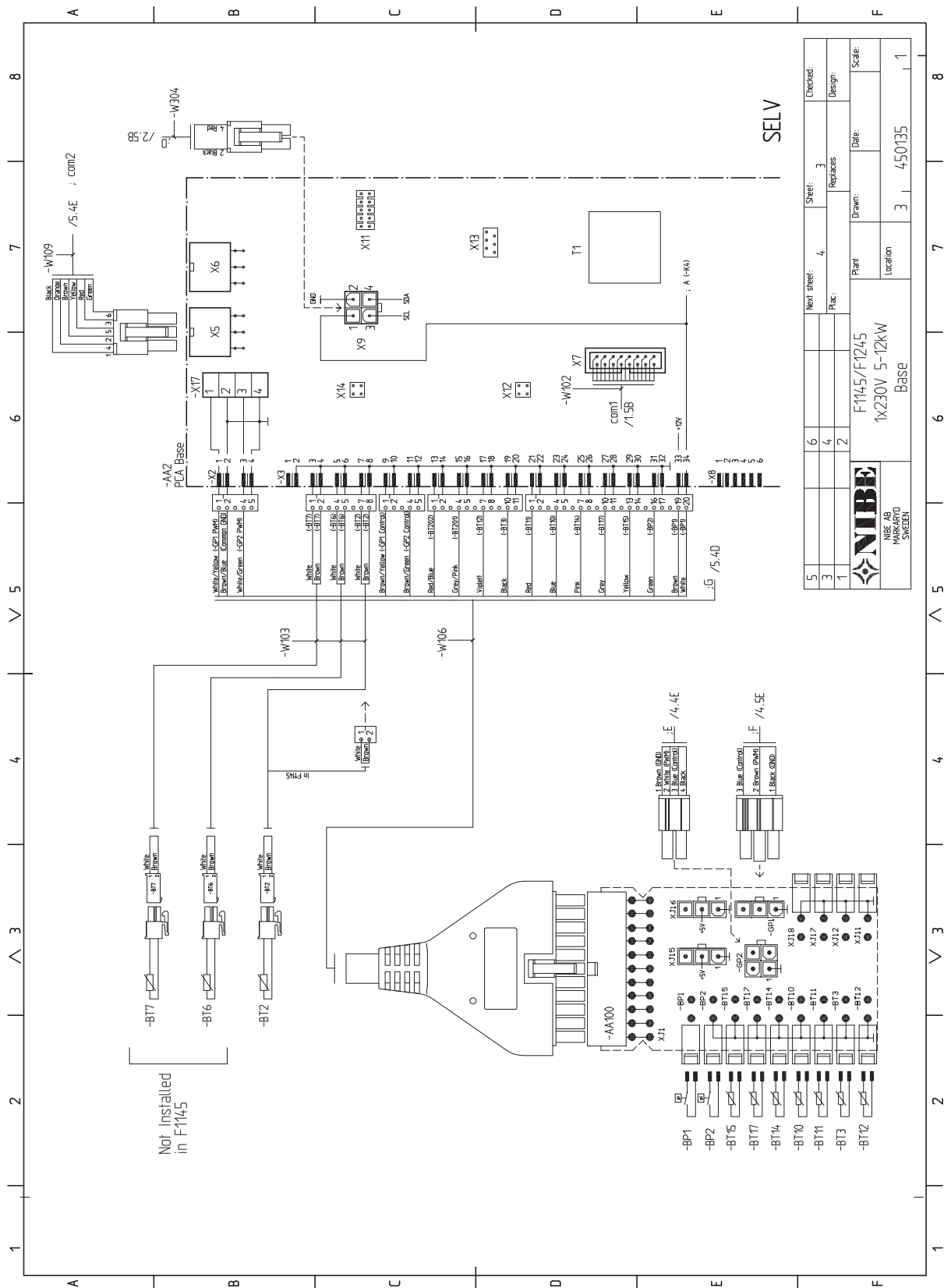


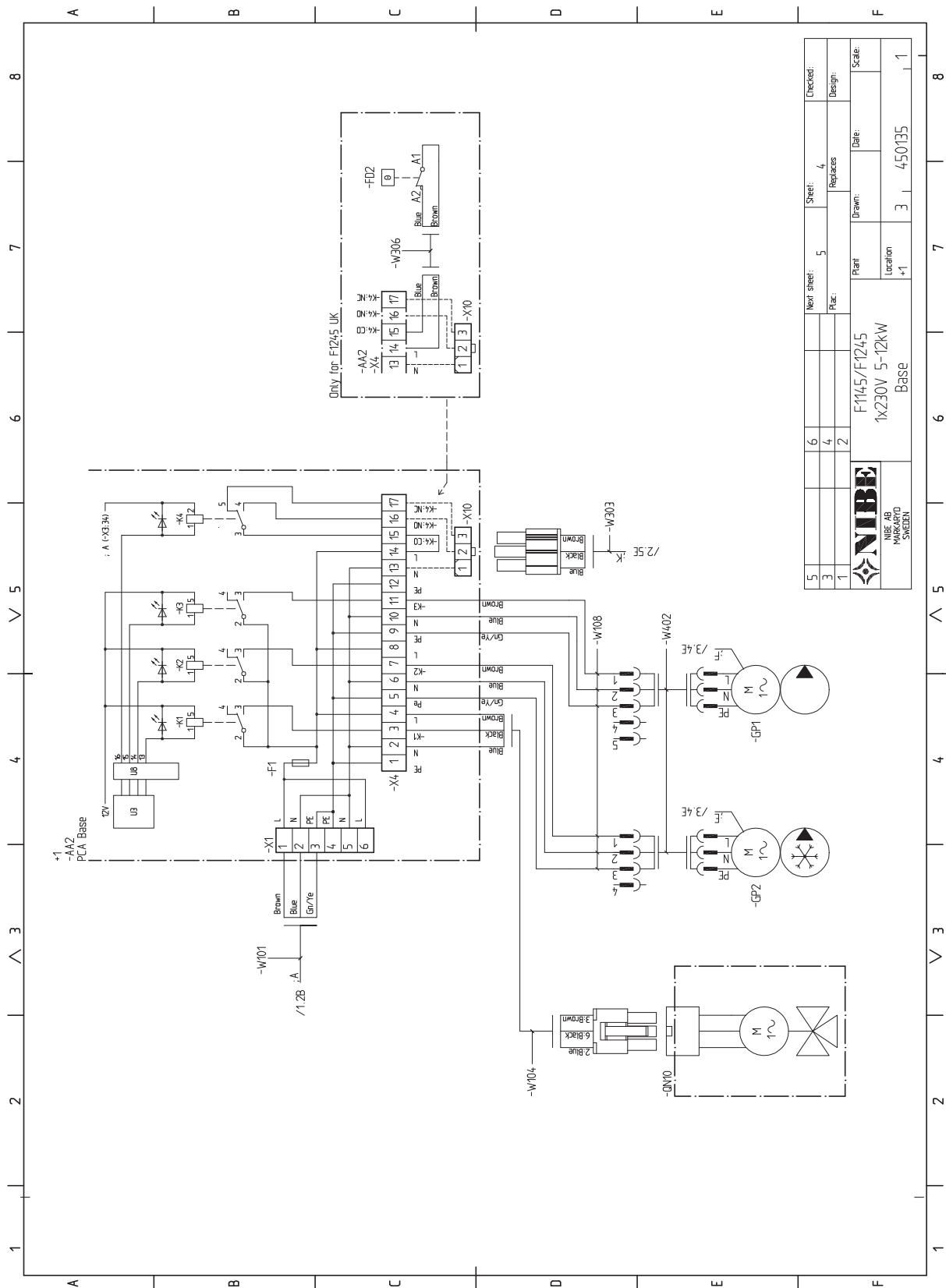
3x230V 12 kW

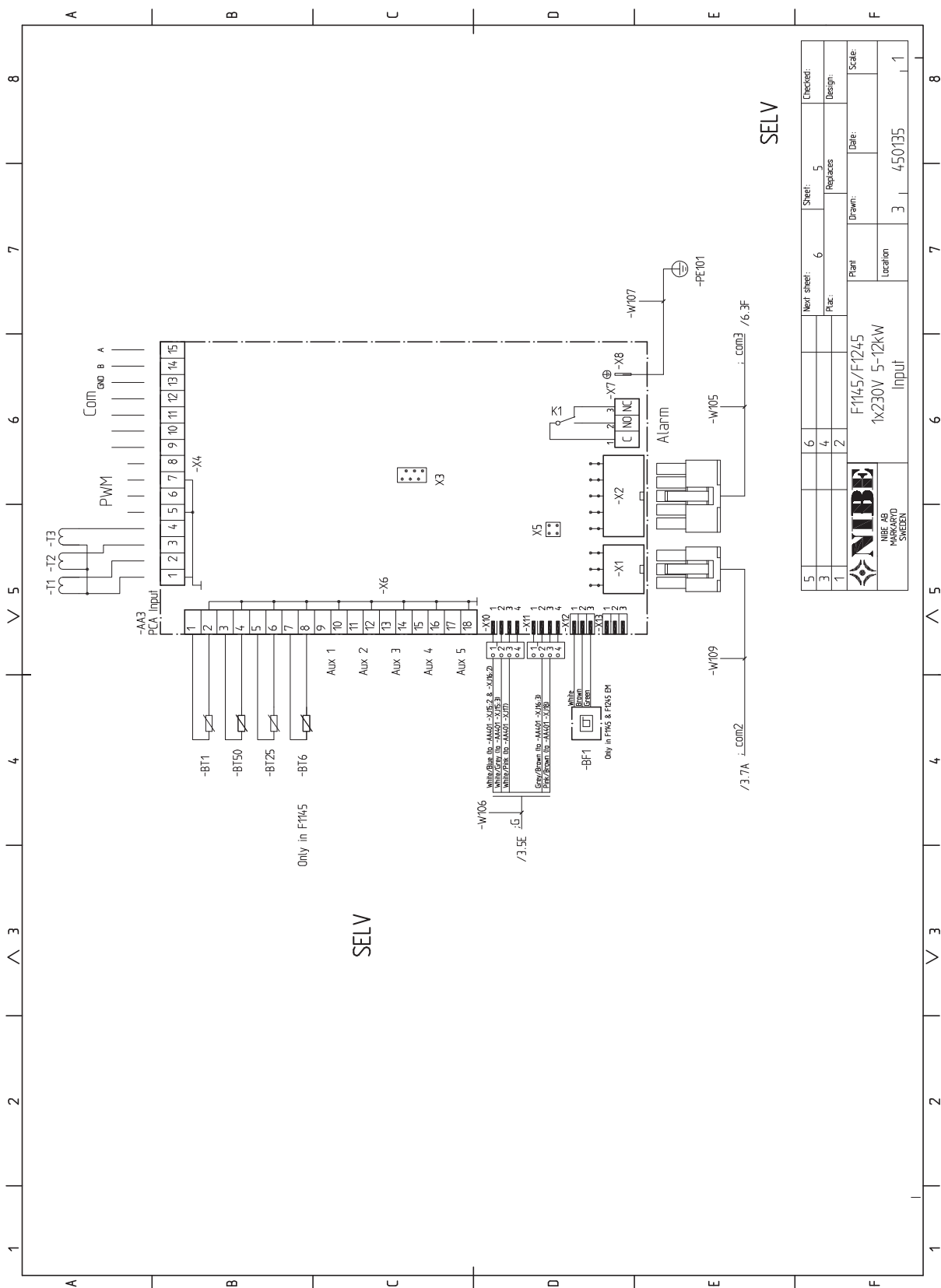


Elschewan – Wiring diagram – Elektrischer Schaltplan 1x230V 5-12 kW (F1145/F1245)

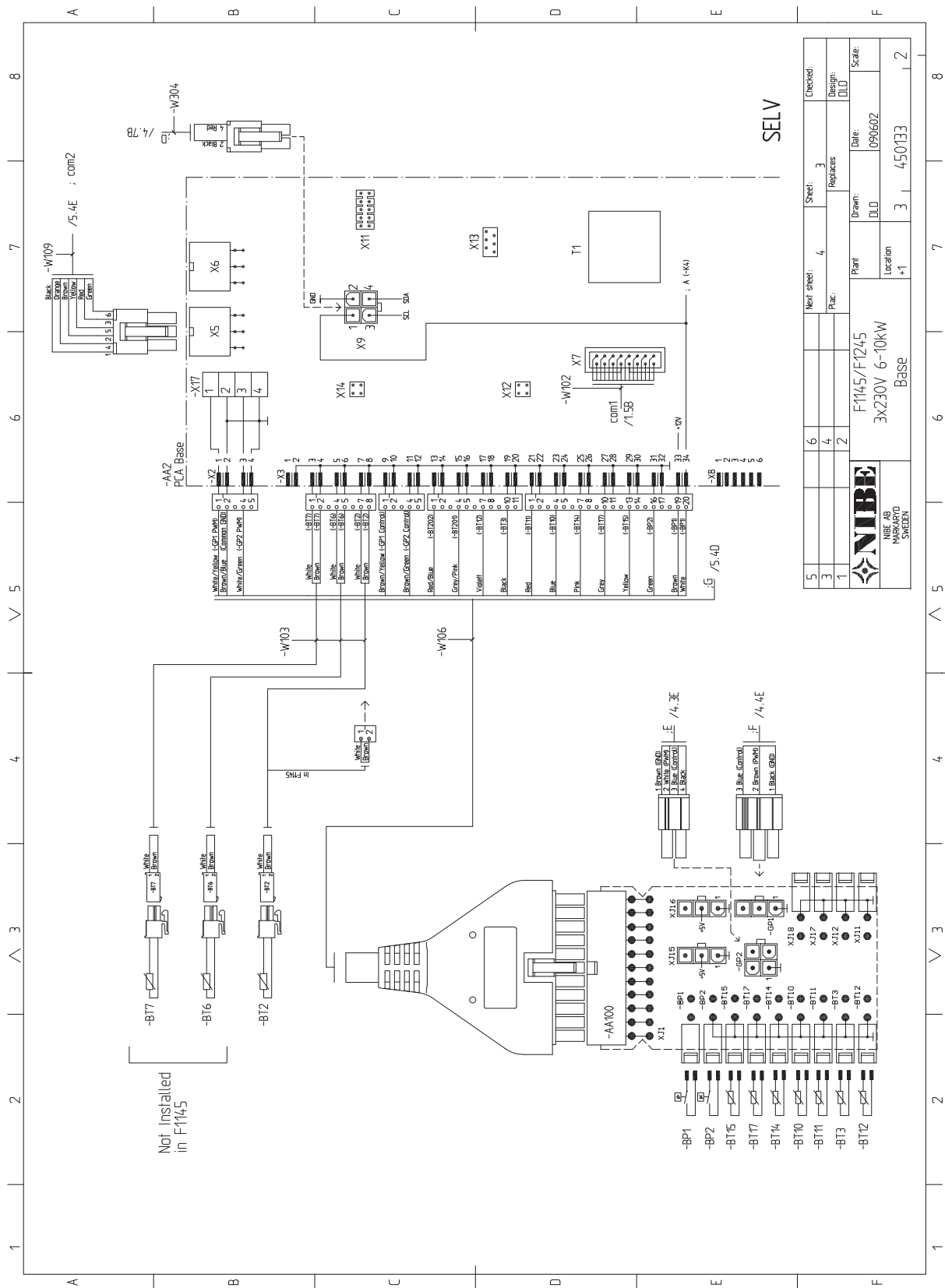


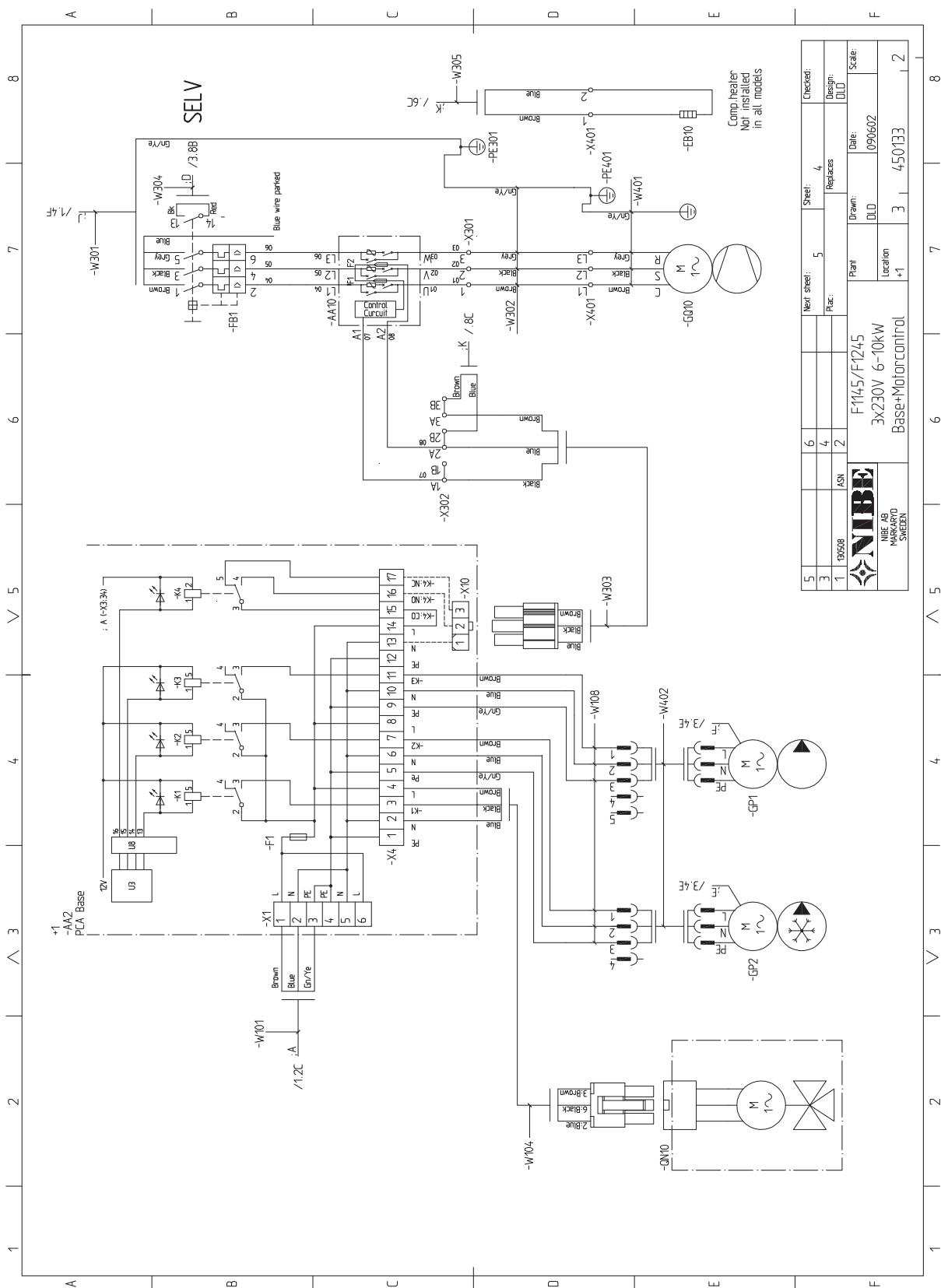


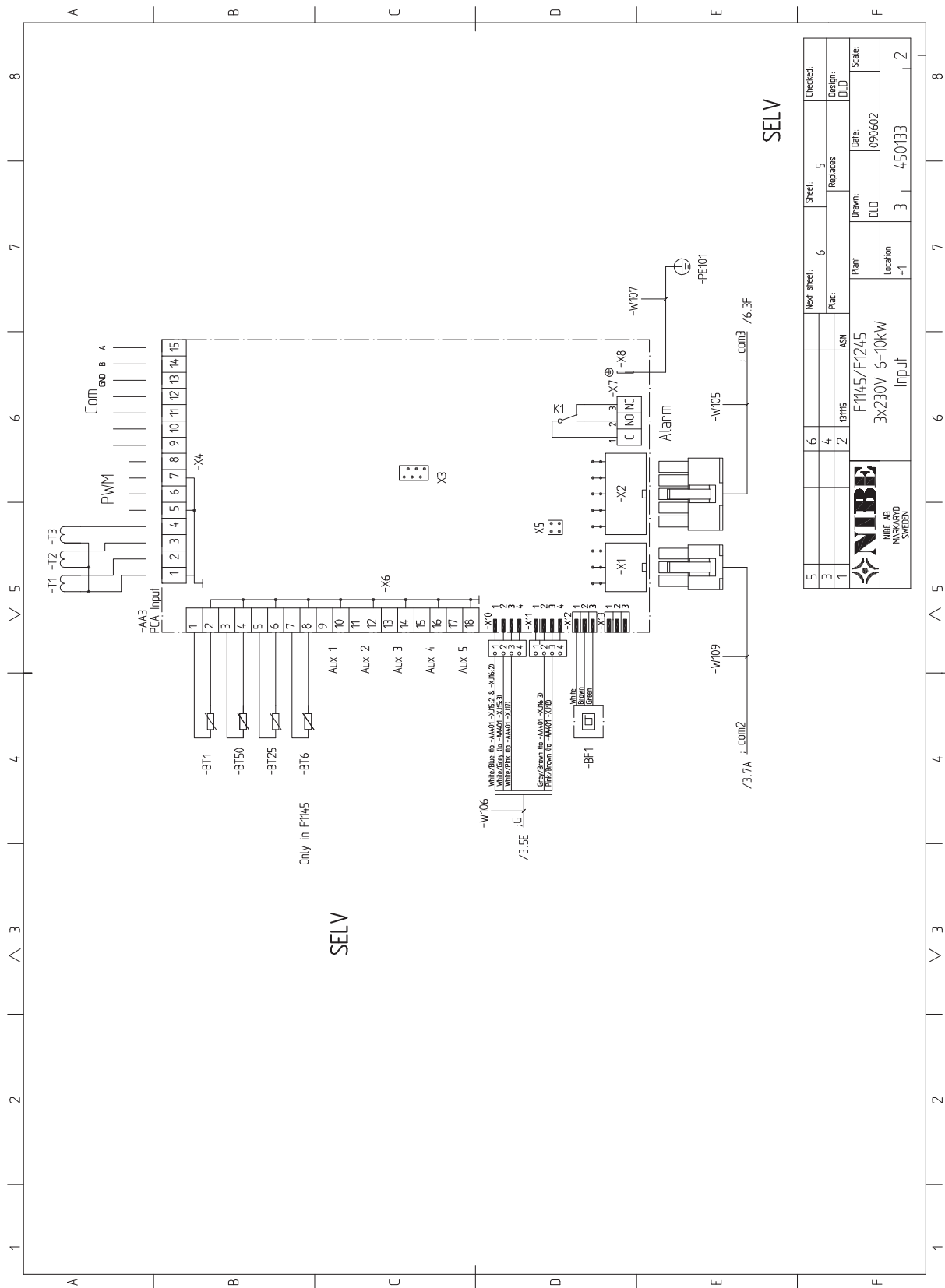




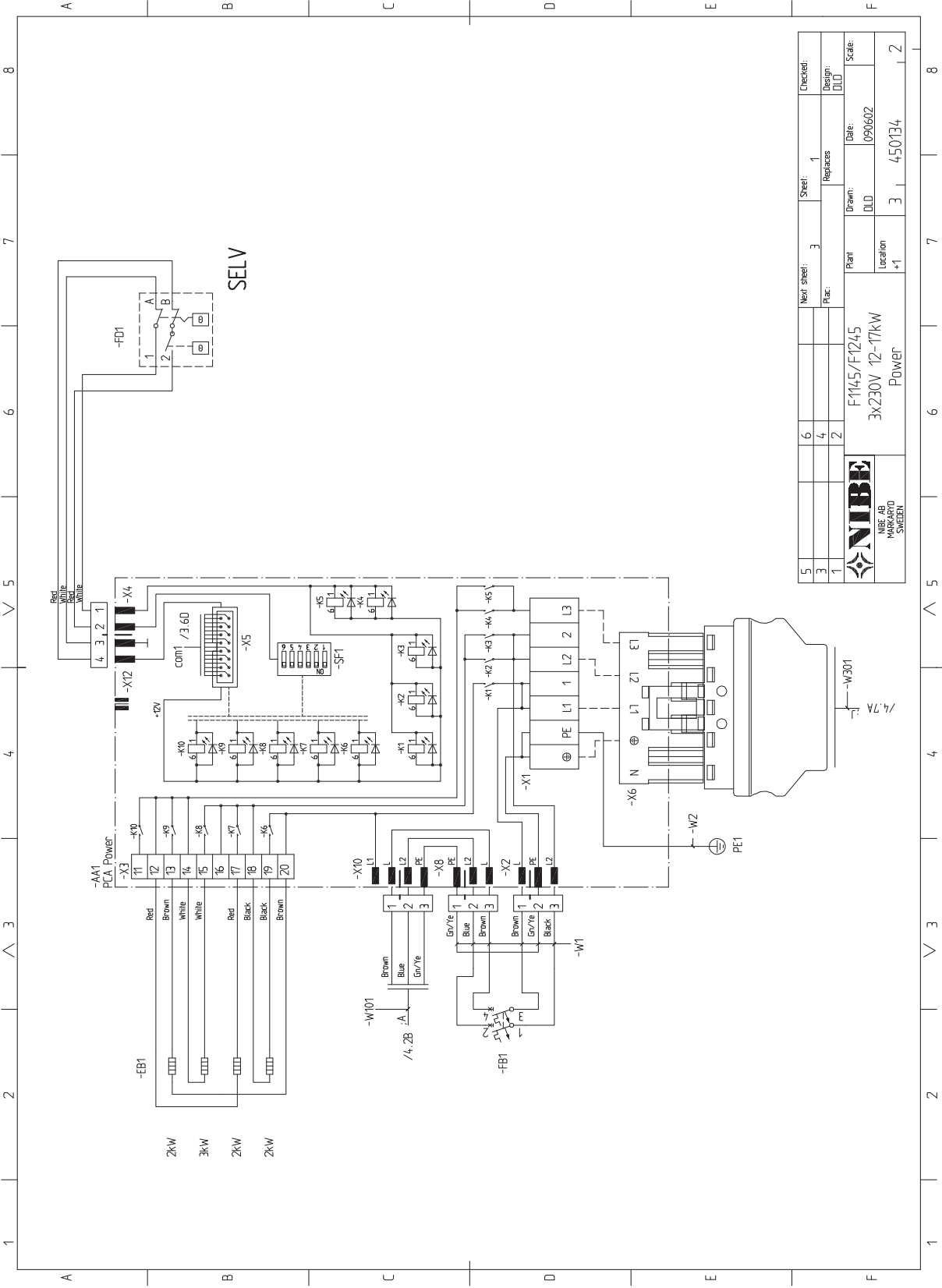
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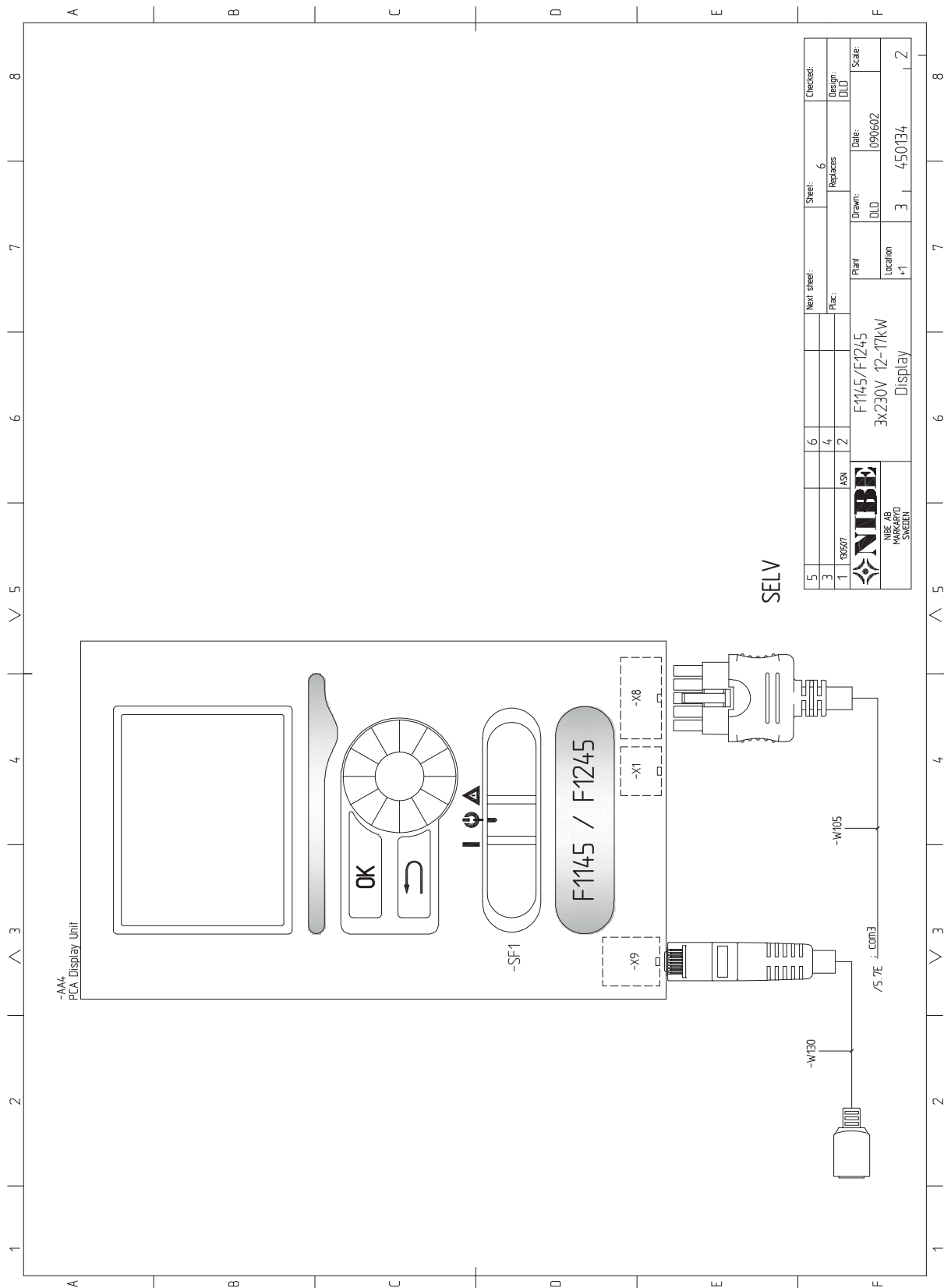




3x230V 12-17 kW (F1145/F1245)



 NIBE MARKARYD SWEDEN										F1145/F1245 3x230V 12-17kW Power										Plant Location +1										Drawn: DLD										Date 090602										Replaces										Sheet: 1										Checked: DLD																									
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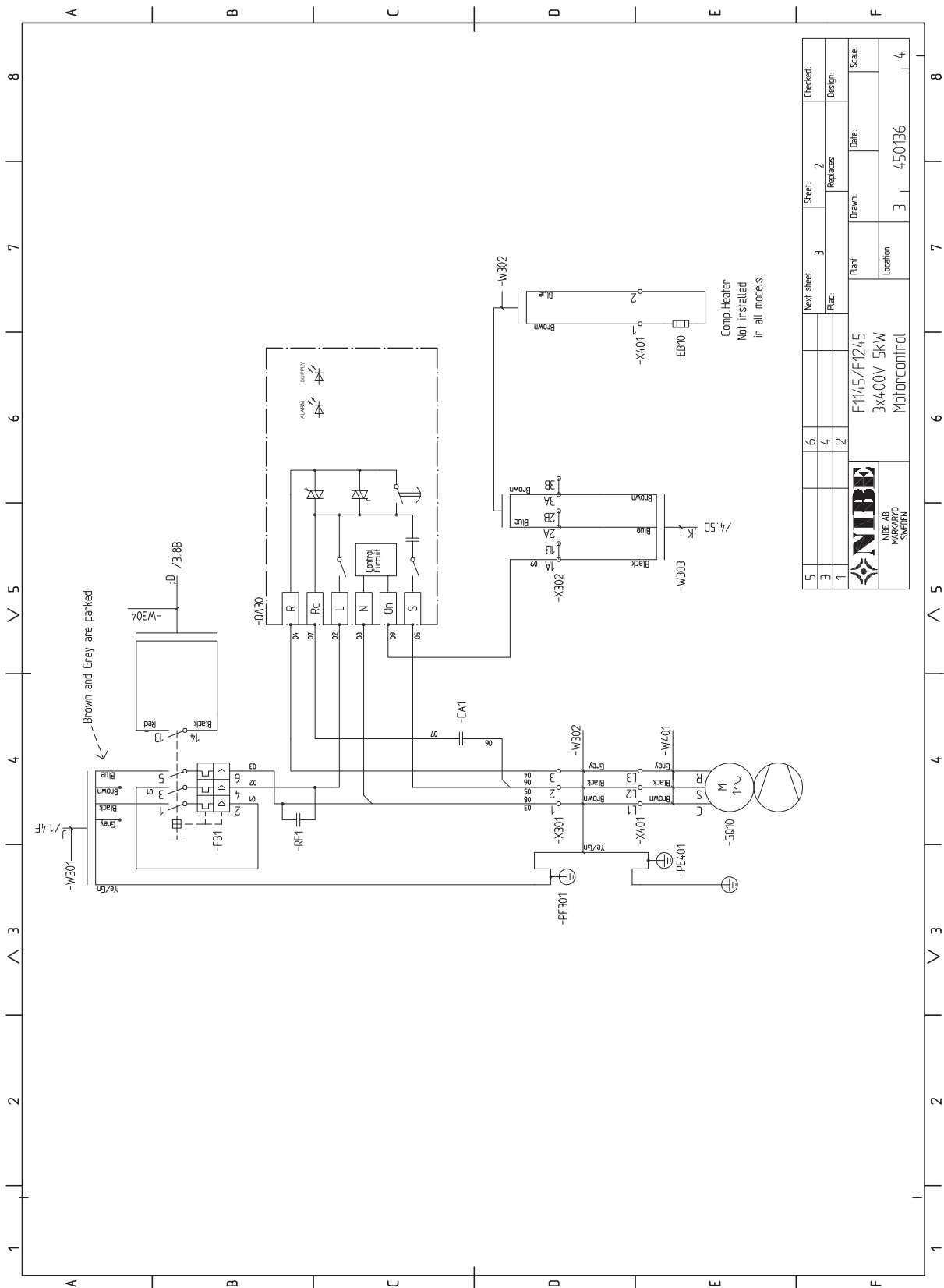


Only for F1245, products with enameled vessel

Only for F1245, products with enameled vessel

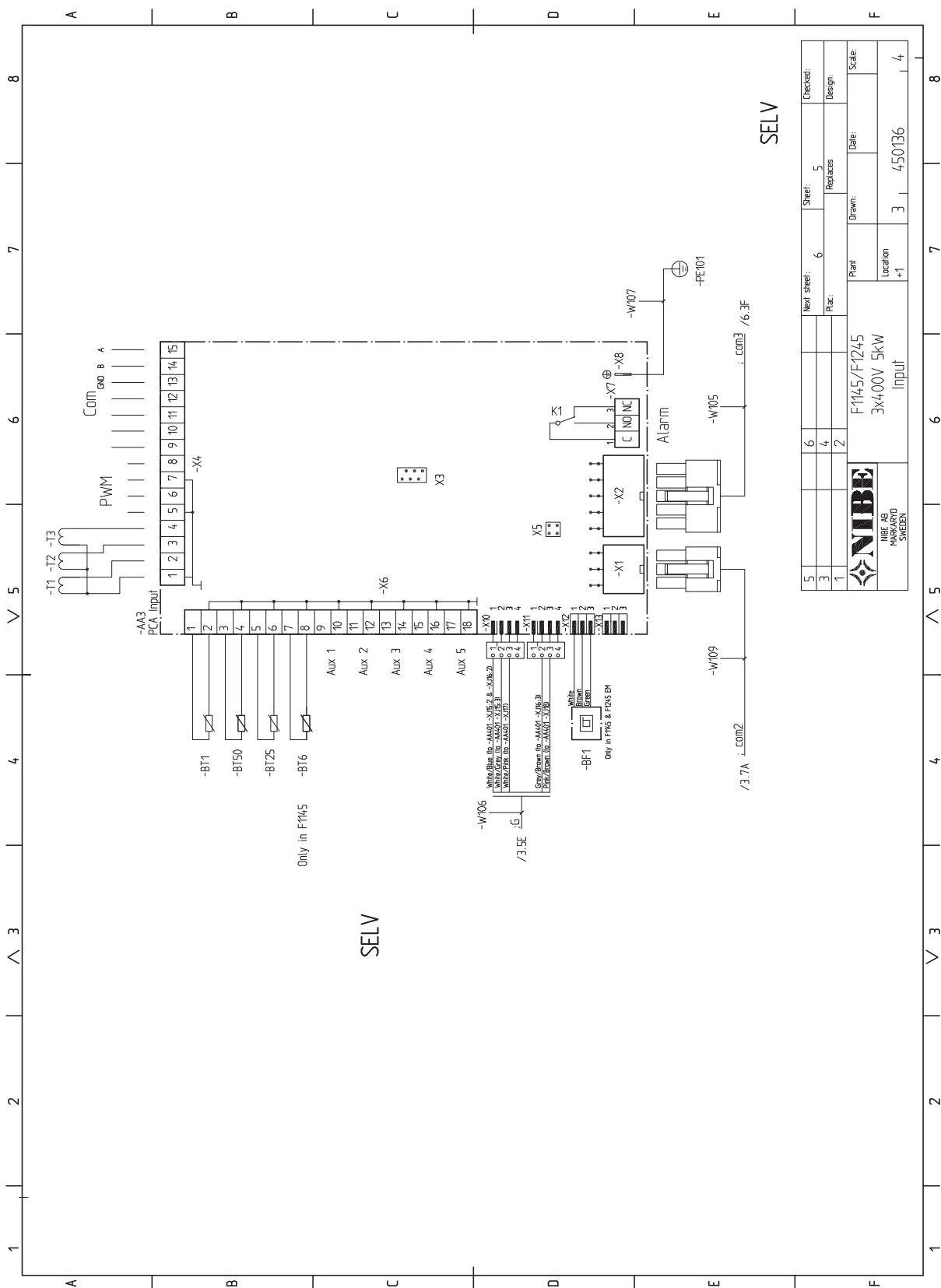
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 NIBE NIBE AB MARKERÖ	F1145/F1245				Scale:	
	3x400V 5kW				Date:	
	Pnvar				Plant	Drawn:
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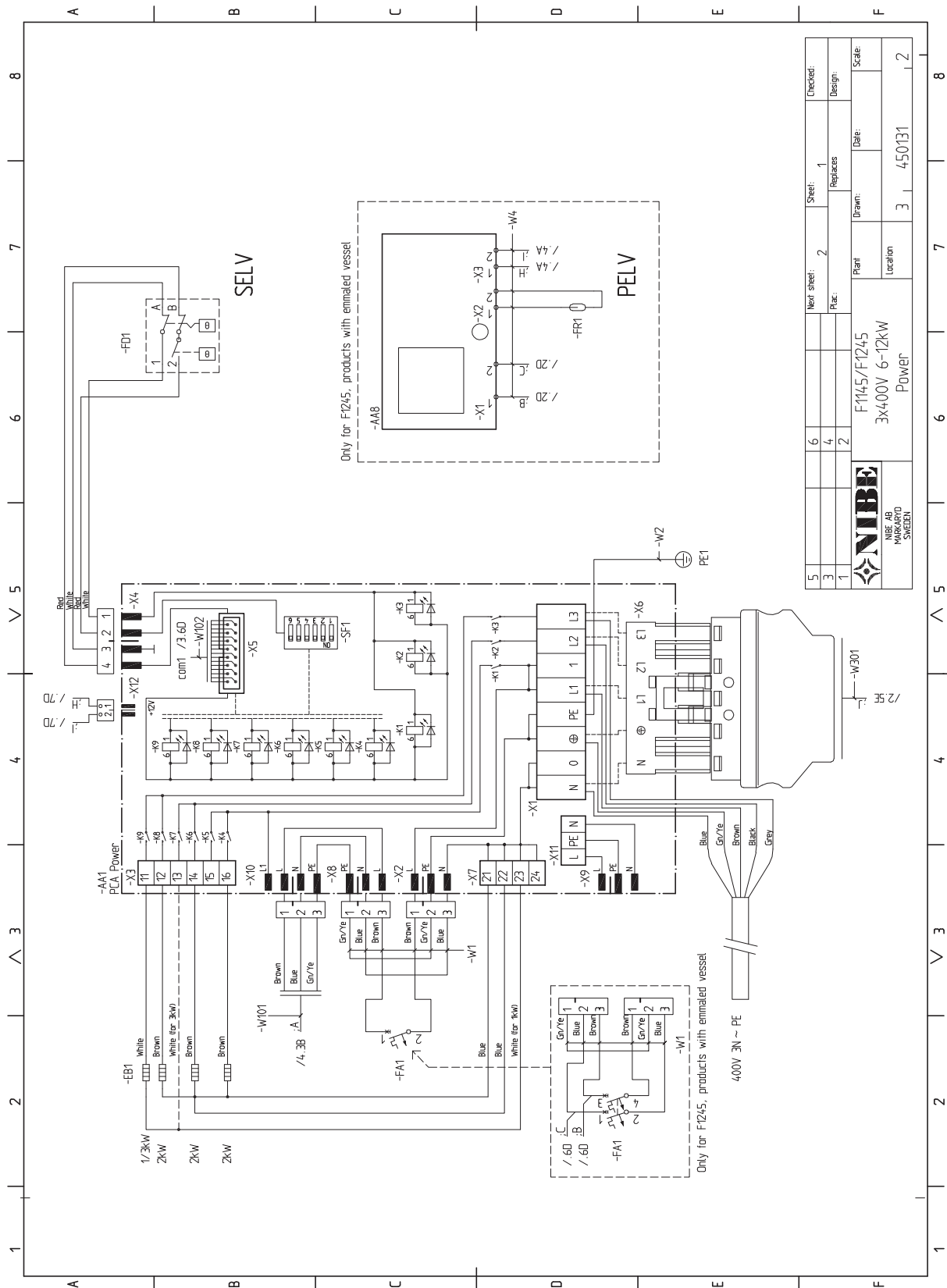


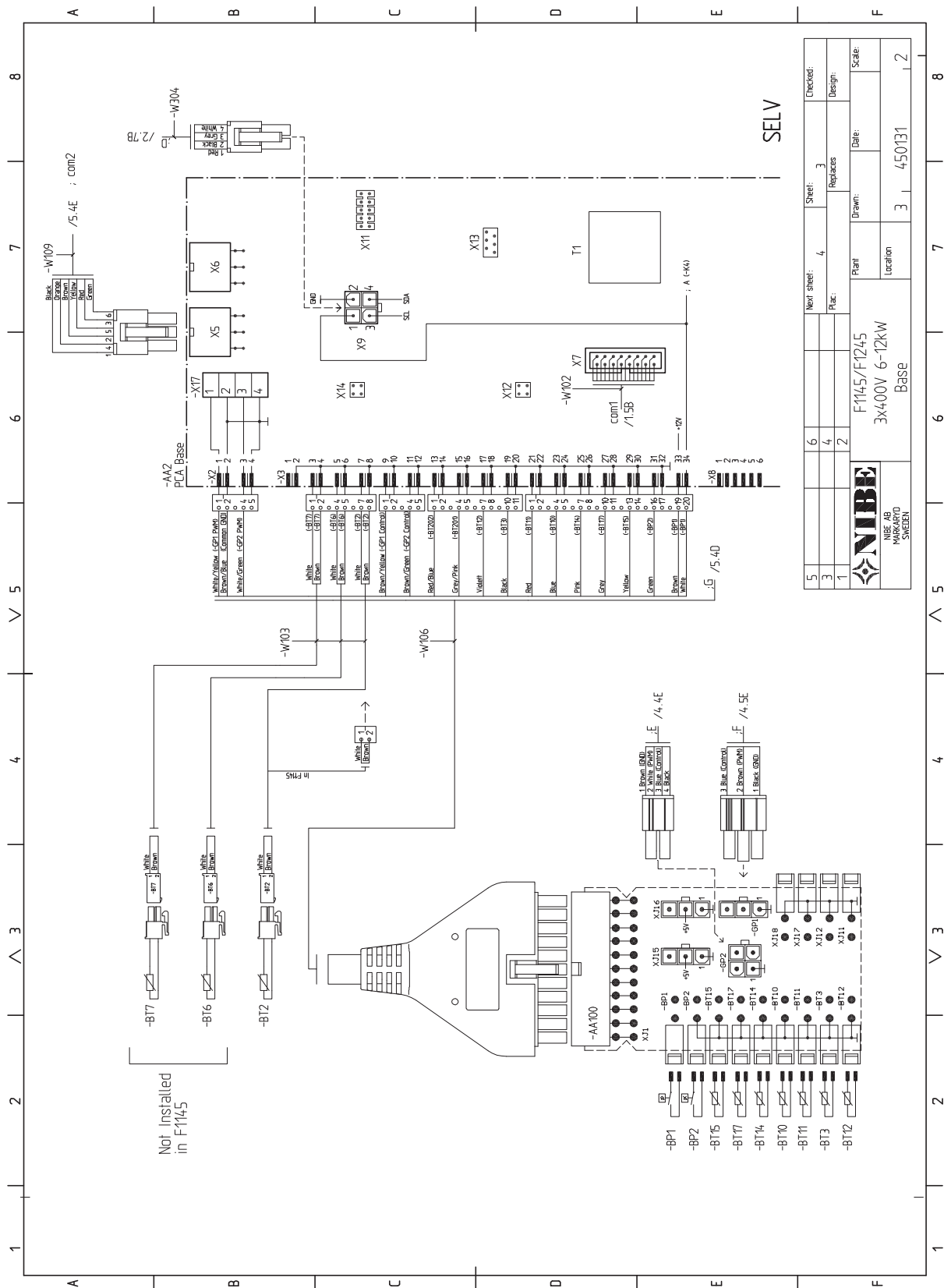
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Motorcontrol			Location	3	450136

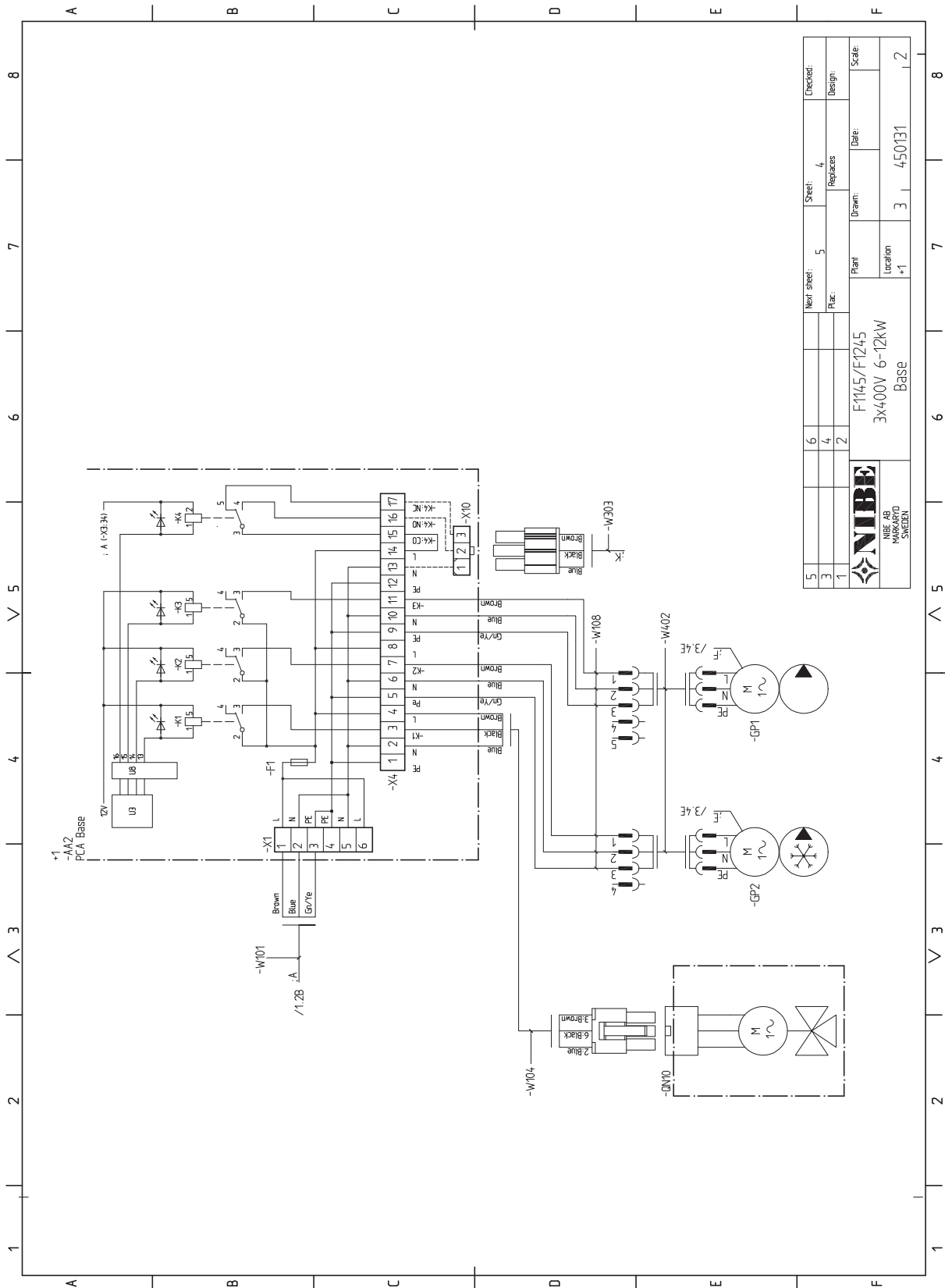
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NIBE AB
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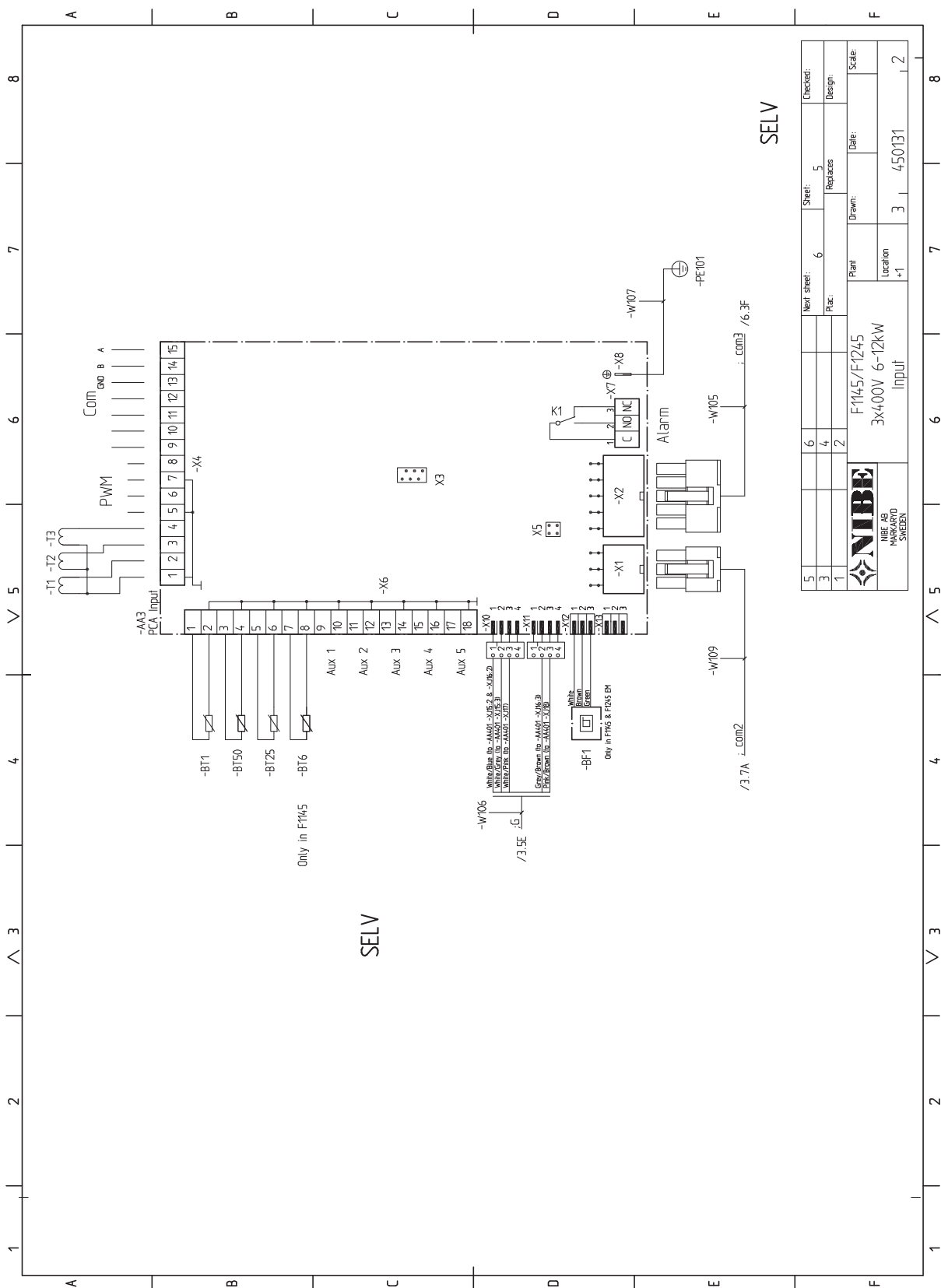


3x400V 6-12 kW (F1145/F1245)





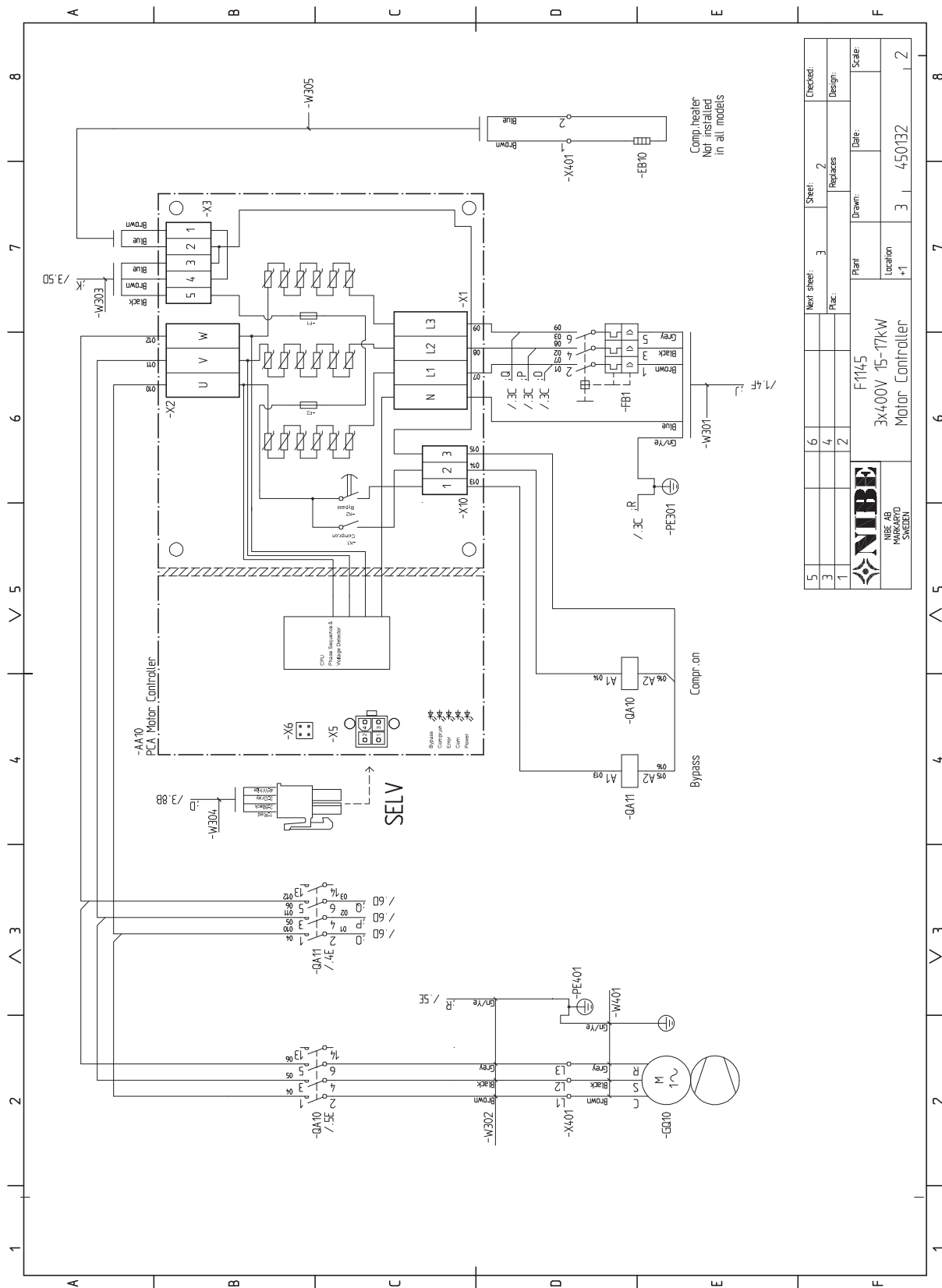


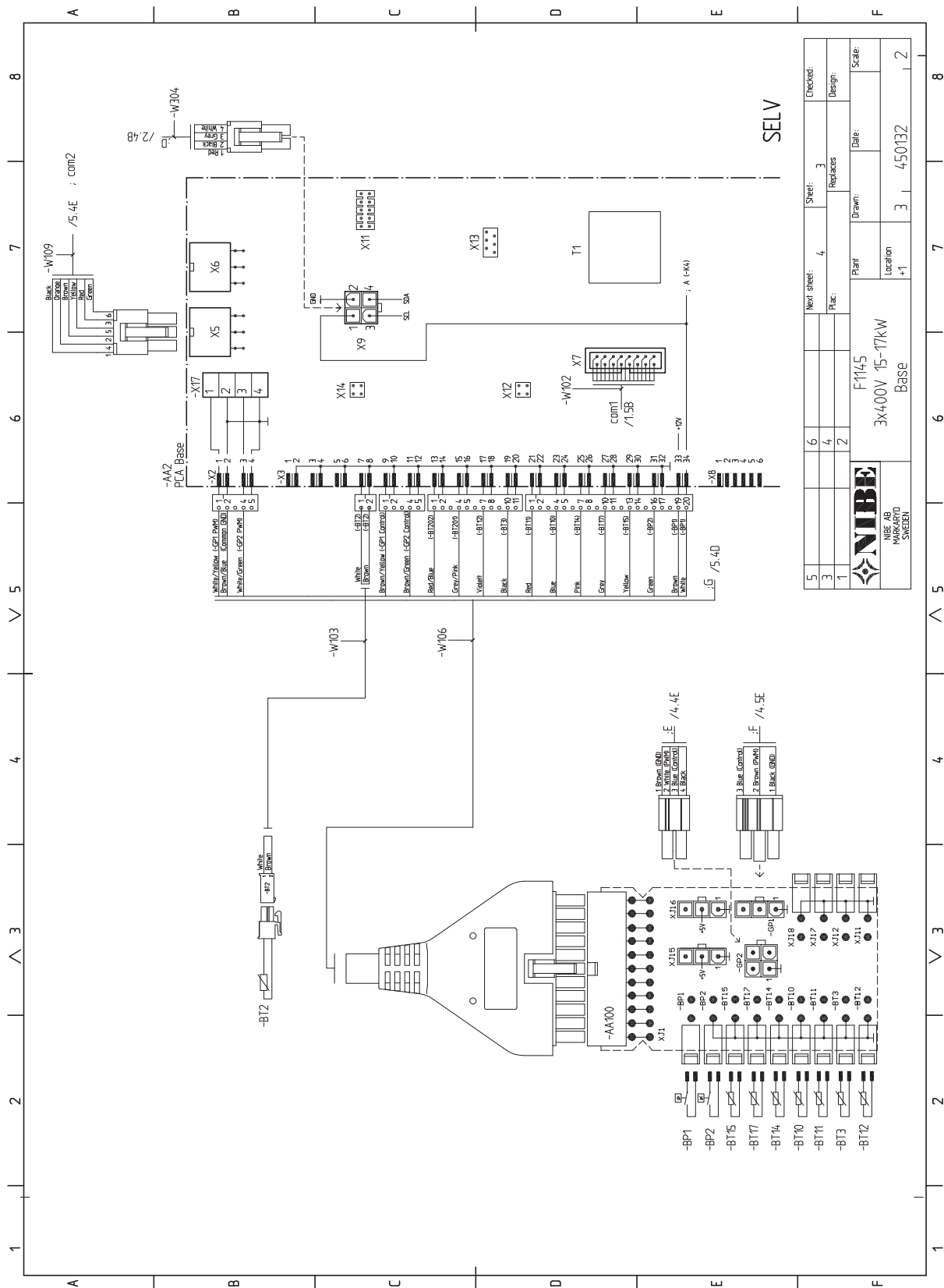


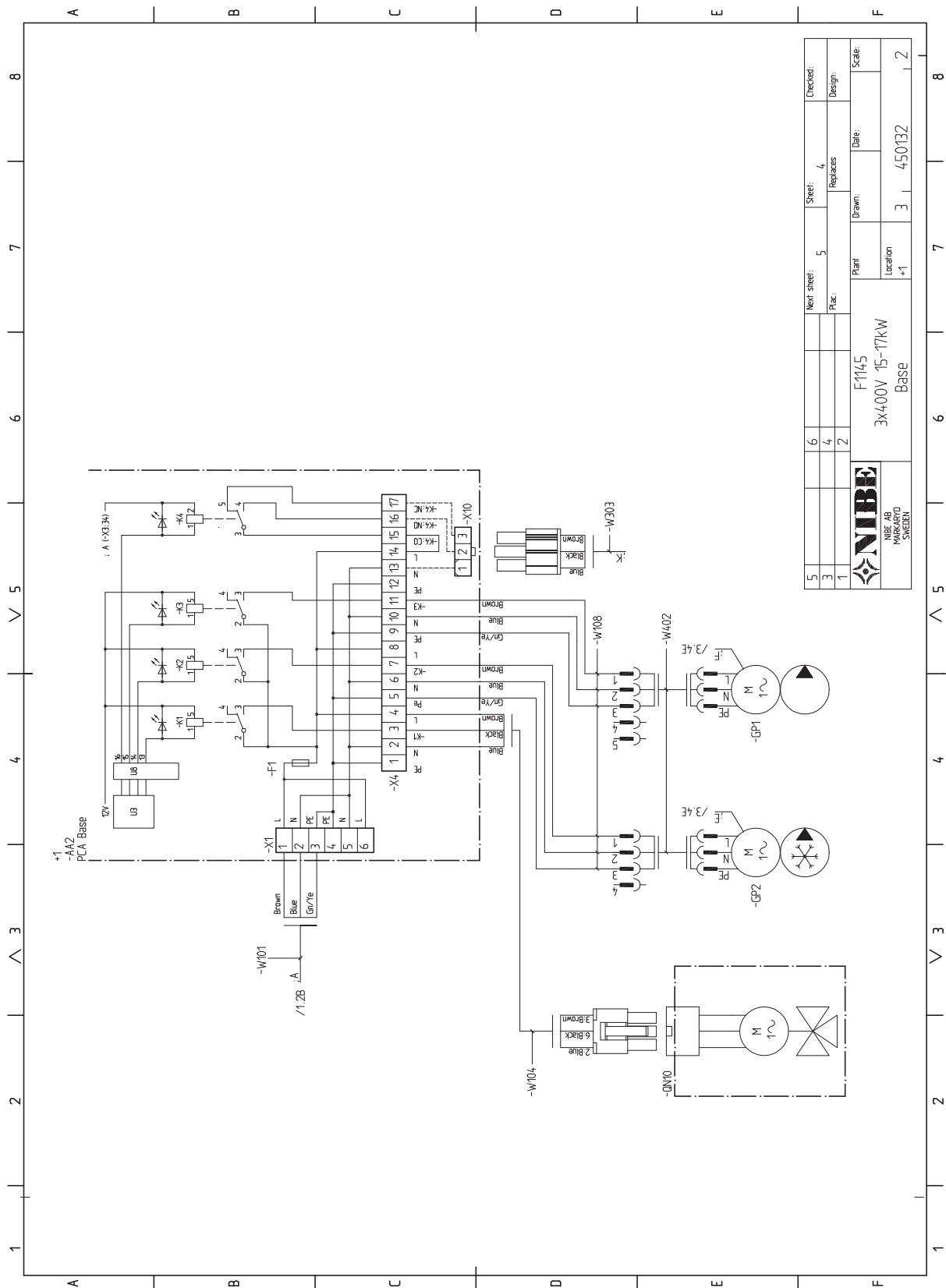
Technical drawing of a power distribution system for a 400V 3N~PE motor. The diagram shows the connection from a 400V 3N~PE supply through a main switch (W101) and a circuit breaker (FA1) to a terminal block (X1). From X1, the power is distributed to a motor (M1) and a control circuit. The control circuit includes a fuse (F1), a thermal relay (SF1), and a contactor (C1). The motor is connected to a terminal block (X6) and a motor control unit (M1). The diagram also shows the connection to a SELV system. A table at the bottom right provides project information.

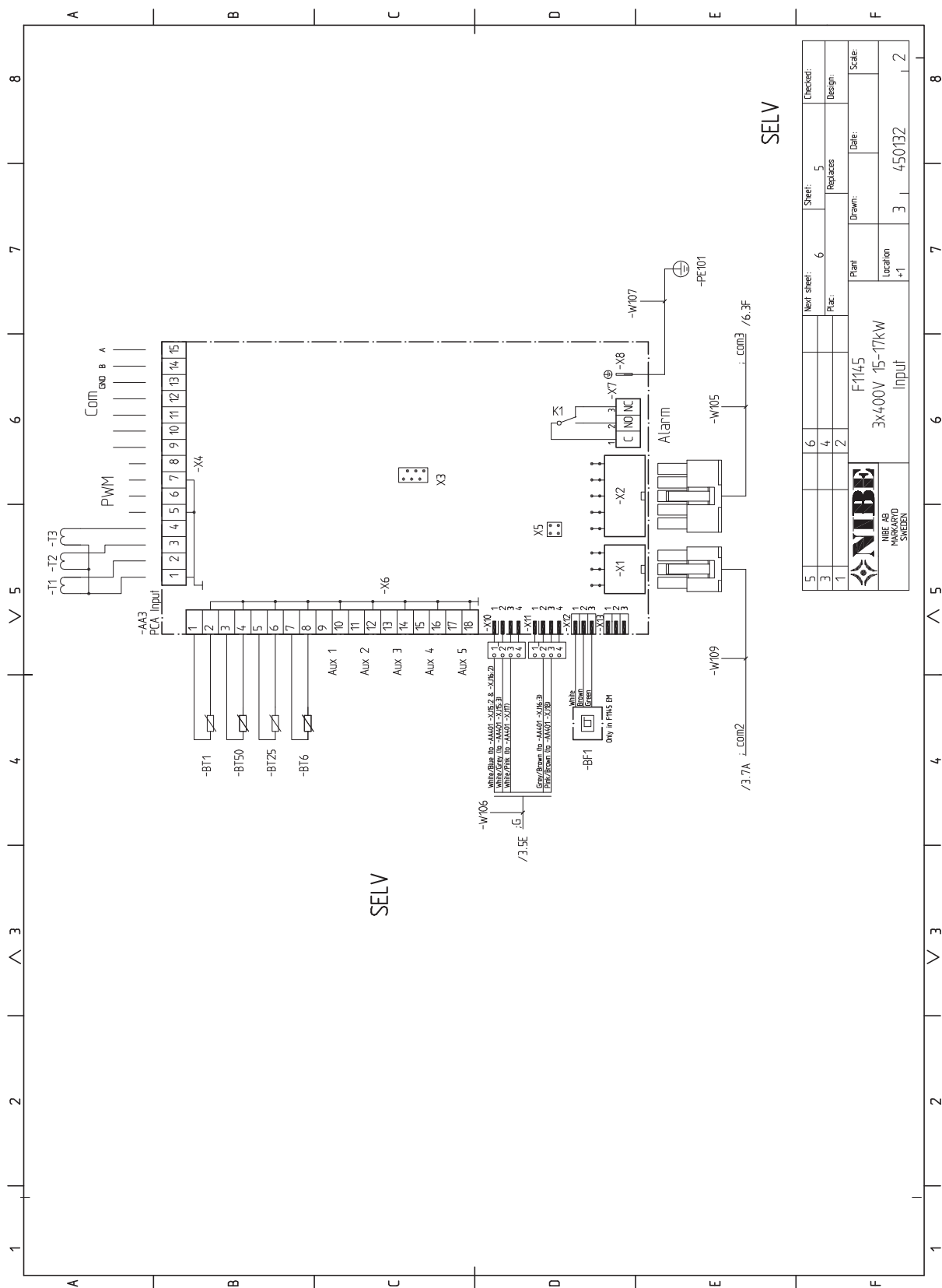
NIBE		F1145		3x400V 15-17kW		Power	
NIBE AB MARKARYD SWELEN		Plant	Location	Drawn:	Date:	Replaces	Scale:
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3	4	Plat:		Design:			
1	2						
		3	450132				

[illegible]









Översättningstabell – Translation table – Übersetzungstabelle

	GB	SE	DE
1	Alarm	Larm	Alarm
2	Aux #	Extrainsång #	Aux #
3	Base	Grund	Grund
4	Black	Svart	schwarz
5	Blue	Blå	blau
6	Brown	Brun	braun
7	Bypass	Förbikoppling	Bypass
8	Com (Communication)	Kommunikation	Kommunikation
9	Comp. Heater Not installed in all models	Kompressorvärmare, ej installerad i alla modeller	Verdichtererwärmer nicht in allen Modellen montiert
10	Compr.on	Kompressor på	Verdichter an
11	Control Curcuit	Överhettningsskydd	Überhitzungsschutz
12	CPU	Processor	CPU
13	Display	Display	Display
14	Display unit	Display enhet	Bedienfeld
15	Error	Fel	Fehler
16	Gn/Ye	Grön/Gul	grün/gelb
17	GND	Jord	Erde
18	Green	Grön	grün
19	Grey	Grå	grau
20	In F1x45	I F1x45	im F1x45
21	Input	Ingång	Eingang
22	Motor controller	Motormodul	Motormodul
23	Motorcontrol	Motorkontroll	Motorsteuerung
24	Not installed in F1145	Inte installerad i F1145	nicht installiert in F1145
25	On 5kW model: Brown and Grey are parked	Bara på 5kW modell: Brun och grå är parkerad	bei 5 kW Modell: braun und grau nicht verwendet
26	Only for F1245 UK	Endast för F1245 UK	nur für F1245 UK
27	Only for F1245, products with emmalled vessel	Endast för F1245 produkter med emaljerat kärl	nur für F1245 -produkte mit emailliertem Speicher
28	Only in F1145 & F1245 DE	Endast i tyska F1145 och F1245	nur in F1145 & F1245 DE
29	Only in F1145 DE	Endast i tyska F1145	nur in F1145 DE
30	Only in F1x45	Endast i F1x45	nur in F1x45
31	Orange	Orange	orange
32	Phase Sequence & Voltage Detector	Fasföljd och spänningsdetektor	Phasenfolgen- und Spannungsanzeiger
33	Pink	Rosa	rosa
34	Power	Effekt	Leistung
35	PWM (pulse width modulation)	Pulsbreddsmodulering	PWM (Pulsweitenmodulation)
36	Red	Röd	rot
37	Supply	Matning	Versorgung
38	White	Vit	weiß
39	White (for #kW)	Vit (för # kW)	weiß (für # kW)
40	Violett	Lila	violett
41	Ye/Gn	Gul/Grön	gelb/grün
42	Yellow	Gul	gelb
AA1	Immersion heater card	Elpatronskort	Heizpatronenkarte
AA2	Base card	Grundkort	Grundkarte
AA3	Input circuit board	Ingångskort	Eingangskarte

	GB	SE	DE
AA4	Display unit AA4-XJ3 USB outlet (no function) AA4-XJ4 Service outlet (No function)	Displayenhet AA4-XJ3 USB-uttag (ingen funktion) AA4-XJ4 Serviceuttag (ingen funktion)	Bedienfeld AA4-XJ3 USB-Anschluss (keine Funktion) AA4-XJ4 Serviceanschluss (keine Funktion)
AA8	Sacrificial anode card	Elanodskort	Fremdstromanodenkarte
AA10	Soft-start card	Mjukstartskort	Schonstartkarte
AA100	Joint card	Skarvkort	Verbindungskarte
BE4	Phase sequence monitor (3-phase)	Fasföljdsvakt (3-fas)	Phasenfolgenwächter (3 Phasen)
BF1	Flow meter (optional)	Flödesmätare (valbar)	Durchflußmesser (optional)
BP1	High pressure pressostat	Högtryckspressostat	Hochdruckpressostat
BP2	Low pressure pressostat	Lågtryckspressostat	Niederdruckpressostat
BT1	Outdoor sensor	Utegivare	Außenfühler
BT2	Temperature sensors, heating medium flow	Temperaturgivare, värmebärare fram	Temperaturfühler, Heizungsvorlauf
BT3	Temperature sensors, heating medium return	Temperaturgivare, värmebärare retur	Temperaturfühler, Heizungsrücklauf
BT6	Temperature sensor, hot water charging	Temperaturgivare, varmvattenladdning	Temperaturfühler, Brauchwasserbereitung
BT7	Temperature sensor, hot water top	Temperaturgivare, varmvatten topp	Temperaturfühler, Brauchwasser oben
BT10	Temperature sensor, brine in	Temperaturgivare, köldbärare in	Temperaturfühler, Wärmequellenmedium ein
BT11	Temperature sensor, brine out	Temperaturgivare, köldbärare ut	Temperaturfühler, Wärmequellenmedium aus
BT12	Temperature sensor, condenser supply line	Temperaturgivare, kondensor framledning	Vorlauftemperaturfühler, Kondensator
BT14	Temperature sensor, hot gas	Temperaturgivare, hetgas	Heißgasfühler
BT15	Temperature sensor, fluid pipe	Temperaturgivare, vätskeledning	Flüssigkeitsleitungsfühler
BT17	Temperature sensor, suction gas	Temperaturgivare, suggas	Sauggasfühler
CA1	Capacitor	Kondensator	Kondensator
EB1	Immersion heater	Elpatron	Heizpatrone
EB10	Compressor heater	Kompressorvärmare	Verdichtererwärmer
EP1	Evaporator	Förångare	Verdampfer
EP2	Condenser	Kondensor	Kondensator
FA1	Miniature circuit-breaker	Automatsäkring	Sicherungsautomat
FB1	Motor cut-out	Motorskydds brytare	Motorschutzschalter
FD1	Temperature limiter/Emergency mode thermostat	Temperaturbegränsare/Reservlägesthermostat	Temperaturbegrenzer/
FR1	Sacrificial anode	Elanod	Fremdstromanode
GP1	Circulation pump	Värmebärarpump	Heizkreispumpe
GP2	Brine pump	Köldbärarpump	Wärmequellenpumpe
GQ10	Compressor	Kompressor	Verdichter
HS1	Drying filter	Torkfilter	Trockenfilter
PF1	Rating plate	Dataskylt	Datenschild
PF2	Type plate, cooling section	Typskylt kyl del	Typenschild Kältemodul
PF3	Serial number plate	Seriennummerskylt	Seriennummernschild
QA10	Contact, compressor	Kontaktor, kompressor	Schütz, Verdichter
QA11	Contact, compressor	Kontaktor, kompressor	Schütz, Verdichter
QA30	Soft-starter	Mjukstart	Schonstartrelais
QM1	Drainage, climate system	Avtappning, klimatsystem	Entleerung, Heizsystem

	GB	SE	DE
QM2	Draining, brine side	Avtappning, köldbärarsystem	Entleerung, Wärmequellensystem
QM22	Venting, coil	Avluftning, slinga	Entlüftung, Rohrwärmeübertrager
QM32	Shut off valve, heating medium re- turn	Avstängningsventil, värmebärare re- tur	Absperrventil, Heizungsrücklauf
QM33	Shut off valve, brine out	Avstängningsventil, köldbärare ut	Absperrventil, Wärmequellenme- dium aus
QM34	Shut-off valve, brine in	Avstängningsventil, köldbärare in	Absperrventil, Wärmequellenme- dium ein
QN1	Expansion valve	Expansionsventil	Expansionsventil
QN10	Shuttle valve, climate system/water heater	Växelventil, klimatsystem/varmvat- tenberedare	Umschaltventil, Heizsystem/Brauch- wasserspeicher
RF1	Suppression capacitor	Avstörningskondensator	Entstörungskondensator
SF1	Switch	Strömställare	Betriebsschalter
UB1	Cable gland, incoming electricity	Kabelgenomföring, inkommande el	Kabeldurchführung, Stromversor- gung
UB2	Cable gland	Kabelgenomföring	Kabeldurchführung
UB3	Cable gland, rear side, sensor	Kabelgenomföring, baksida, givare	Kabeldurchführung, Rückseite, Fühler
WP4	Pipe fitting	Rörkoppling, värmebärare fram	Rohrkupplung
X301	Terminal block	Kopplingsplint	Klemmleiste
X302	Terminal block	Kopplingsplint	Klemmleiste
XL1	Connection, heating medium flow	Anslutning, värmebärare fram	Anschluss, Heizungsvorlauf
XL2	Connection, heating medium return	Anslutning, värmebärare retur	Anschluss, Heizungsrücklauf
XL3	Connection, cold water	Anslutning, kallvatten	Kaltwasseranschluss
XL4	Connection, hot water (F1245)	Anslutning, varmvatten (F1245)	Anschluss, Brauchwasser (F1245)
XL5	Connection, HWC	Anslutning, VVC	Anschluss BWZ
XL6	Connection, brine in	Anslutning, köldbärare in	Anschluss, Wärmequellenmedium ein
XL7	Connection, brine out	Anslutning, köldbärare ut	Anschluss, Wärmequellenmedium aus
XL9	Connecting, hot water heater (F1145)	Anslutning, varmvattenberedare (F1145)	Anschluss, Brauchwasserspeicher (F1145)
XL20	Service connection, high pressure	Serviceanslutning, högtryck	Wartungsanschluss, Hochdruck
XL21	Service connection, low pressure	Serviceanslutning, lågtryck	Wartungsanschluss, Niederdruck

	GB	FI	NO
1	Alarm	Hälytys	Alarm
2	Aux #	Tuloportti #	Ekstrainngang #
3	Base	Perus	Grund
4	Black	Musta	Svart
5	Blue	Sininen	Blå
6	Brown	Ruskea	Brun
7	Bypass	Ohitus	Bypas
8	Com (Communication)	Kommunikaatio	Kommunikasjon
9	Comp. Heater Not installed in all models	Kompressorilämmitin, ei asennettu kaikissa malleissa	Kompressorvarme, ikke installert i alle modeller
10	Compr.on	Kompressor på	Kompressor på
11	Control Curcuit	Ylikuumenemissuoja	Overopphetningssikring
12	CPU	CPU	Cpu/prosessor

	GB	FI	NO
13	Display	Näyttö	Display
14	Display unit	Näyttöyksikkö	Display enhet
15	Error	Virhe	Feil
16	Gn/Ye	Keltainen/Vihreä	Grønn/gul
17	GND	Maa	Jord
18	Green	Vihreä	Grønn
19	Grey	Harmaa	Grå
20	In F1x45	F1X45	I F1x45
21	Input	Tulo	Inngang
22	Motor controller	Moottorimoduuli	Motormodul
23	Motorcontrol	Moottorihjaus	Motorkontroll
24	Not installed in F1145	Ei asennettu F1145ssa	Ikke innstallert i F1145
25	On 5kW model: Brown and Grey are parked	Vain 5kW mallissa: Ruskea ja harmaa johto tulpattu	Bare på 5 Kw modell: Brun og grå er parkert
26	Only for F1245 UK	Vain F1245 UK	Bare for F1245 UK
27	Only for F1245, products with emmalled vessel	Vain F1245 emalisäiliöllä	Bare for F1245 produkter med emaljert tank
28	Only in F1145 & F1245 DE	Vain F1X45 DE	Bare i tyske F1145 og F1245
29	Only in F1145 DE	Vain F1145 DE	Bare i tyske F1145
30	Only in F1x45	Vain F1X45	Bare i F1x45
31	Orange	Oranssi	Oransje
32	Phase Sequence & Voltage Detector	Vaihejärjestys- ja jännitetunnistin	Fase rekkefølge og spenningsdetektor
33	Pink	Pinkki	Rosa
34	Power	Teho	Effekt
35	PWM (pulse width modulation)	PWM (pulse width modulation)	Puls med modulering
36	Red	Punainen	Rød
37	Supply	Syöttö	Mating
38	White	Valkoinen	Hvit
39	White (for #kW)	Valkoinen (# kW)	Hvit (for #kW)
40	Violet	Violetti	Lilla
41	Ye/Gn	Keltainen/Vihreä	Gul/grønn
42	Yellow	Keltainen	Gul
AA1	Immersion heater card	Sähkövastuskortti	El-patronkort
AA2	Base card	Peruskortti	Grunnkort
AA3	Input circuit board	Tulokortti	Inngangskort
AA4	Display unit	Näyttö	Displayenhet
	AA4-XJ3 USB outlet (no function)	AA4-XJ3 USB-liitäntä (ei toimintoa)	AA4-XJ3 USB-uttak (ingen funksjon)
	AA4-XJ4 Service outlet (No function)	AA4-XJ4 Huoltoliitäntä (ei toimintoa)	AA4-XJ4 Serviceuttak (ingen funksjon)
AA8	Sacrificial anode card	Sähköanodikortti	El-anodekort
AA10	Soft-start card	Pehmokäynnistyskortti	Mykstartskort
AA100	Joint card	Liitoskortti	Koplingskort
BE4	Phase sequence monitor (3-phase)	Vaihejärjestysvahti (3-vaihe)	Fasefølgevak (3-faset)
BF1	Flow meter (optional)	Virtausmittari (valinnainen)	Volumstrømmåler (valgbar)
BP1	High pressure pressostat	Ylipaineensäädin	Høytrykkspressostat
BP2	Low pressure pressostat	Alipaineensäädin	Lavtrykkspressostat
BT1	Outdoor sensor	Ulkolämpötilan anturi	Uteføler
BT2	Temperature sensors, heating medium flow	Lämpötilan anturi, lämpöjohto meno	Temperaturføler, varmebærer tur

	GB	FI	NO
BT3	Temperature sensors, heating medium return	Lämpötilan anturi, lämpöjohto paluu	Temperaturføler, varmebærer retur
BT6	Temperature sensor, hot water charging	Lämpötilan anturi, käyttöveden tuotanto	Temperaturføler, varmtvannsoppvarming
BT7	Temperature sensor, hot water top	Lämpötilan anturi, käyttövesi huippu	Temperaturføler, varmtvannstopp
BT10	Temperature sensor, brine in	Lämpötilan anturi, lämmönkeruu paluu	Temperaturføler, kuldebærer inn
BT11	Temperature sensor, brine out	Lämpötilan anturi, lämmönkeruu meno	Temperaturføler, kuldebærer ut
BT12	Temperature sensor, condenser supply line	Lämpötila-anturi, lauhduttimen menojohto	Temperaturføler, kondensator turledning
BT14	Temperature sensor, hot gas	Lämpötila-anturi, kuumakaasu	Temperaturføler, hetgass
BT15	Temperature sensor, fluid pipe	Lämpötila-anturi, käyttövesi	Temperaturføler, væskeledning
BT17	Temperature sensor, suction gas	Lämpötila-anturi, imukaasu	Temperaturføler, sugegass
CA1	Capacitor	Kondensaattori	Kondensator
EB1	Immersion heater	Sähkövastus	El-patron
EB10	Compressor heater	Kompressorilämmitin	Kompressorvarmer
EP1	Evaporator	Höyrystin	Fordamper
EP2	Condenser	Lauhdutin	Kondensator
FA1	Miniature circuit-breaker	Automaattivaroke	Automatsikring
FB1	Motor cut-out	Moottorisuojakatkaisin	Motorvernbyrter
FD1	Temperature limiter/Emergency mode thermostat	Lämpötilanrajoitin/varatilatermostaatti	Temperaturbegrenser/Reservestillingstermostat
FR1	Sacrificial anode	Sähköanodi	Elanode
GP1	Circulation pump	Lämpöjohtopumppu	Varmebærerpumpe
GP2	Brine pump	Lämmönkeruupumppu	Kuldebærerpumpe
GQ10	Compressor	Kompressori	Kompressor
HS1	Drying filter	Kuivaussuodatin	Tørkefilter
PF1	Rating plate	Tyypikilpi	Typeskilt
PF2	Type plate, cooling section	Tyypikilpi, kylmäosa	Typeskilt kjøledel
PF3	Serial number plate	Laitekilpi	Serienummerskilt
QA10	Contact, compressor	Kontaktori, kompressori	Kontaktor, kompressor
QA11	Contact, compressor	Kontaktori, kompressori	Kontaktor, kompressor
QA30	Soft-starter	Pehmökäynnistys	Mykstart
QM1	Drainage, climate system	Tyhjennys, lämmitysjärjestelmä	Avtapping, klimasystem
QM2	Draining, brine side	Tyhjennys, lämmönkeruupuoli	Avtapping, kuldebærersystem
QM22	Venting, coil	Ilmaus, silmukka	Avluftung, slynge
QM32	Shut off valve, heating medium return	Sulkuventtiili, lämpöjohto paluu	Avstengingsventil, varmebærer retur
QM33	Shut off valve, brine out	Sulkuventtiili, lämmönkeruuliuos meno	Avstengingsventil, kuldebærer ut
QM34	Shut-off valve, brine in	Sulkuventtiili, lämmönkeruu paluu	Avstengingsventil, kuldebærer inn
QN1	Expansion valve	Paisuntaventtiili	Ekspansjonsventil
QN10	Shuttle valve, climate system/water heater	Vaihtoventtiili, lämmitysjärjestelmä/lämminvesivaraaja	Vekselventil, klimasystem/varmtvannsbereder
RF1	Suppression capacitor	Häiriönpoistokondensaattori	Kondensator
SF1	Switch	Katkaisin	Strømbryter
UB1	Cable gland, incoming electricity	Kaapeliläpivienti, syöttökaapelil	Kabelgjennomføring, innkommende strøm
UB2	Cable gland	Kaapeliläpivienti	Kabelgjennomføring
UB3	Cable gland, rear side, sensor	Kaapeliläpivienti, takapuoli, anturit	Kabelgjennomføring, bakside, føler

	GB	FI	NO
WP4	Pipe fitting	Putkiliitäntä, lämmitysvesi meno	Rørkopling, varmebærer tur
X301	Terminal block	Liitinrima	Koplingsplint
X302	Terminal block	Liitinrima	Koplingsplint
XL1	Connection, heating medium flow	Liitäntä, lämpöjohto meno	Tilkopling, varmebærer tur
XL2	Connection, heating medium return	Liitäntä, lämpöjohto paluu	Tilkopling, varmebærer retur
XL3	Connection, cold water	Liitäntä, kylmävesi	Tilkopling, kaldtvann
XL4	Connection, hot water (F1245)	Liitäntä, käyttövesi (F1245)	Tilkopling, varmtvann (F1245)
XL5	Connection, HWC	Liitäntä, VVC	Tilkopling, VVC
XL6	Connection, brine in	Liitäntä, lämmönkeruu tulo	Tilkopling, kuldebærer inn
XL7	Connection, brine out	Liitäntä, lämmönkeruu meno	Tilkopling, kuldebærer ut
XL9	Connecting, hot water heater (F1145)	Liitäntä, lämminvesivaraaja (F1145)	Tilkopling, varmtvannsbereder (F1145)
XL20	Service connection, high pressure	Huoltoliitäntä, ylipaine	Servicetilkopling, høytrykk
XL21	Service connection, low pressure	Huoltoliitäntä, alipaine	Servicetilkopling, lavtrykk

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