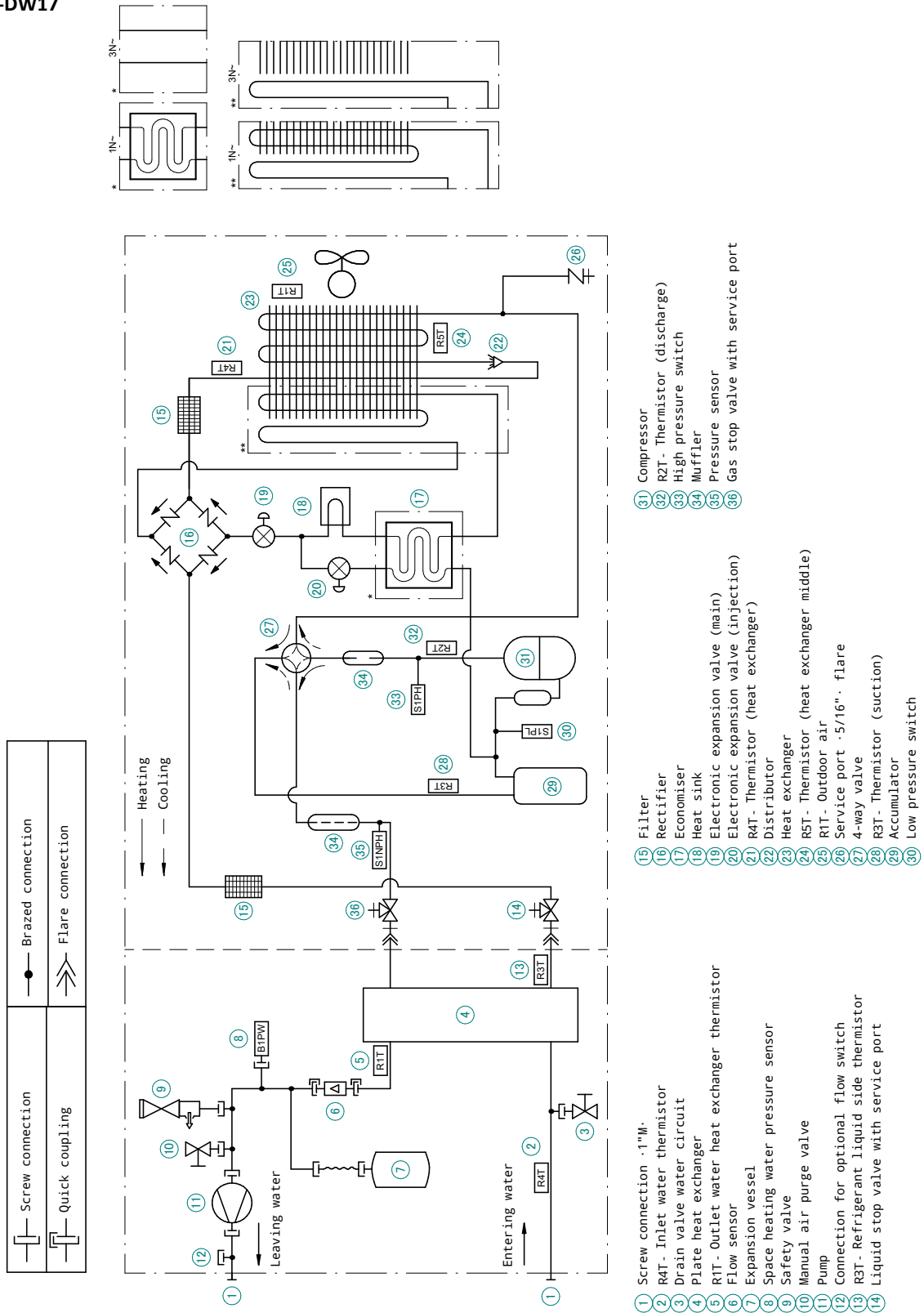


9 Piping diagrams

9 - 1 Piping Diagrams

9

EBLA09-14DV3 / EBLA09-14DW1 / EDLA09-14DV3 / EDLA09-14DW1 / EBLA-DV37 / EBLA-DW17 / EDLA-DV37 / EDLA-DW17

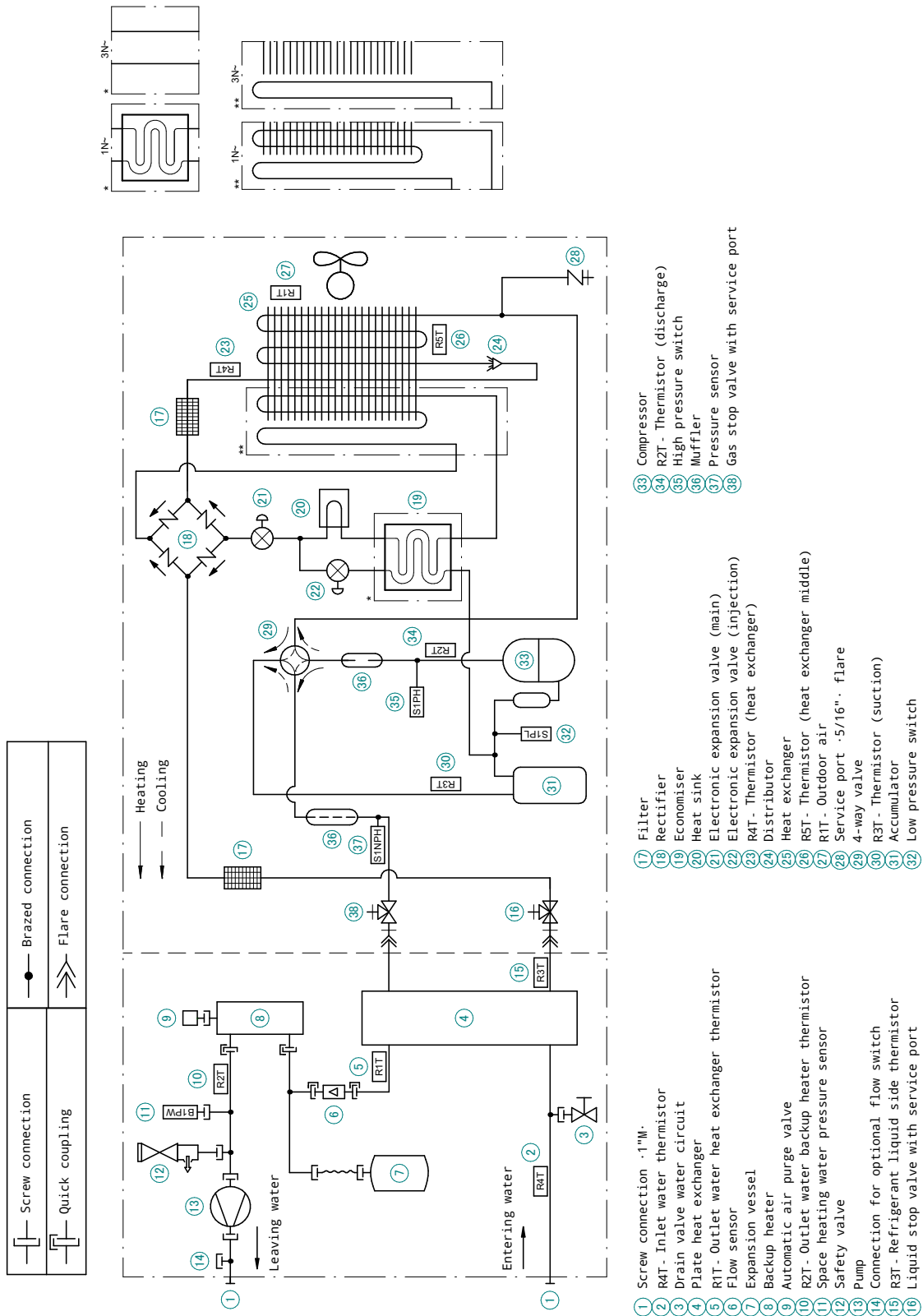


3D128954A

9 Piping diagrams

9 - 1 Piping Diagrams

EBLA09-14D3V3 / EBLA09-14D3W1 / EDLA09-14D3V3 / EDLA09-14D3W1 / EBLA-D3V37 / EBLA-D3W17 / EDLA-D3V37 / EDLA-D3W17



3D128953A

10 Wiring diagrams

10 - 1 Notes & Legend

10

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
 EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
 EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
 EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17

(2) NOTES

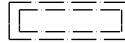
X14M, X15M : Main terminal

----- : Earth wiring

15 : Wire number 15

- - - - - : Field supply

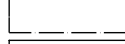
① : Several wiring possibilities



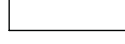
: Option



: Wiring depending on model



: Not mounted in switch box



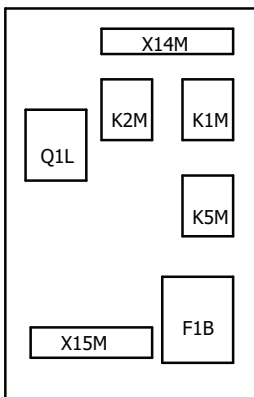
: PCB

Optional backup heater configuration :
 (only for EKLBUHCB6W1)

1N~, 230V, 3kW or 6kW

3N~, 400V, 6kW or 9kW

(3) BUH kit switch box



EKLBUHCB6W1

(4) Legend

| Part n° | Description |
|---------|---------------------------------|
| E1H | BUH element (1 kW) |
| E2H | BUH element (2 kW) |
| F1B | Overcurrent fuse BUH |
| F1T | Thermal fuse BUH |
| F1U | Fuse |
| K1M | Contacteur BUH (Step 1) |
| K2M | Contacteur BUH (Step 2) |
| K5M | Safety contacteur BUH |
| Q3DI | # Earth leakage circuit breaker |
| Q1L | Thermal protector BUH |
| R2T | Outlet BUH thermistor |
| X*M | Terminal strip |

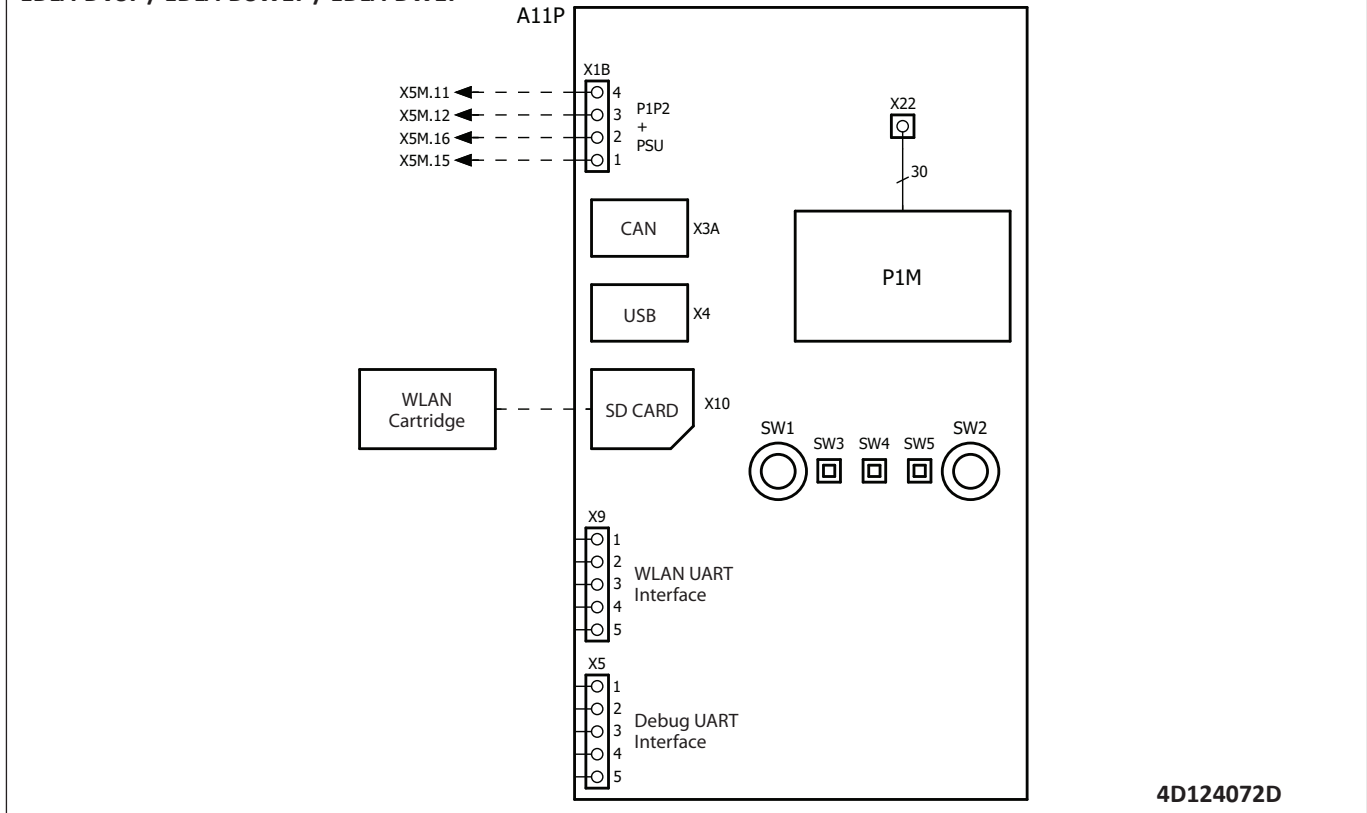
#: field supply

4D124072D

10 Wiring diagrams

10 - 2 Control Circuit, Inverter

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1 / EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1 / EBLA-D3V37 / EBLA-D3W17 / EBLA-DW17 / EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17



10 Wiring diagrams

10 - 3 Compressor - Notes & Legend

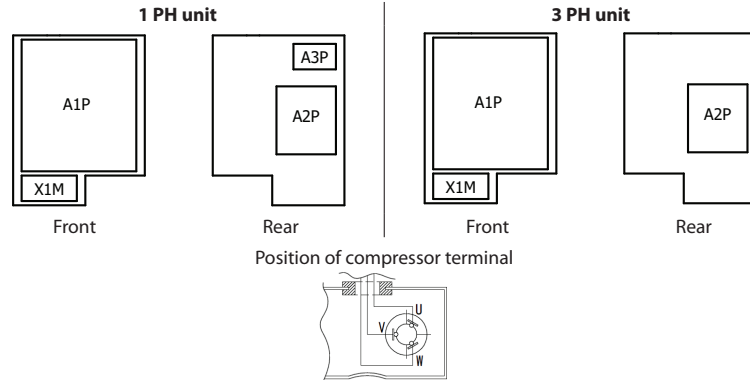
10

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
 EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
 EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
 EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17

NOTES to go through before starting the unit

- X1M : Main terminal
- : Earth wiring
- - - - - : Field supply
- ① : Several wiring possibilities
- [] : Option
- [] : Wiring depending on model
- [] : Not mounted in switch box
- [] : PCB

POSITION IN SWITCH BOX



NOTES

1. Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BS1~BS4 and DS1 switches.
2. When operating, do not short-circuit protection device Q1, S1PH and S1PL.
3. Refer to the combination table and the option manual for how to connect the wiring to X6A, X41A and X77A.
4. Colours: BLK: black; RED: red; BLU: blue; WHT: white; GRN: green; BRN: brown; YLW: yellow; ORG: orange
5. Confirm the method of setting the selector switches (DS1) by service manual. Factory setting of all switches: OFF

LEGEND

| 1 PH unit | | 3 PH unit | |
|--------------------|---|--------------------|---|
| Part n° | Description | Part n° | Description |
| A1P | Printed circuit board (main) | A1P | Printed circuit board (main) |
| A2P | Printed circuit board (noise filter) | A2P | Printed circuit board (noise filter) |
| A3P | Printed circuit board (flash) | C* (A1P) | Capacitor |
| C* (A*P) | Capacitor | BS* (A1P) | Push-button switch |
| BS* (A1P) | Push-button switch | DS1 (A1P) | Dipswitch |
| DS1 (A1P) | Dipswitch | F1U, F3U~F4U (A2P) | Fuse T 6.3 A 250 V |
| F1U, F3U~F4U (A2P) | Fuse T 6.3 A 250 V | F4U, F5U (A2P) | Fuse T 30 A 250 V |
| F2U (A2P) | Fuse T 56 A 250 V | F7U (A1P) | Fuse T 5 A 250 V |
| F6U (A1P) | Fuse T 5 A 250 V | HAP (A1P) | Light emitting diode (service monitor is green) |
| H1~7P (A1P) | Indication light emitting diode (service monitor is orange) | K1R (A1P) | Magnetic relay (Y1S) |
| HAP (A1P) | Light emitting diode (service monitor is green) | K5~8R (A1P) | Magnetic relay |
| K1R (A1P) | Magnetic relay (Y1S) | K*M (A1P) | Magnetic relay (Main) |
| K10R (A1P) | Magnetic relay | L*R (A*P) | Reactor |
| K10R (A1P) | Magnetic relay | M1C | Compressor motor |
| K11M (A1P) | Magnetic relay (Main) | M1F | Fan motor |
| K14~15R (A2P) | Magnetic relay | PS (A1P) | Switching power supply |
| L*R (A1P) | Reactor | Q1 | Thermal overcurrent protector |
| M1C | Compressor motor | Q1DI | # Earth leakage circuit breaker (30mA) |
| M1F | Fan motor | R1~9 (A1P) | Resistor |
| PS (A1P) | Switching power supply | R1T | Thermistor (air) |
| Q1 | Thermal overcurrent protector | R2T | Thermistor (discharge) |
| Q1DI | # Earth leakage circuit breaker (30mA) | R3T | Thermistor (suction) |
| R1~5 (A*P) | Resistor | R4T | Thermistor (distribution pipe) |
| R1T | Thermistor (air) | R5T | Thermistor (heat exchanger middle) |
| R2T | Thermistor (discharge) | R11T (A1P) | Thermistor (fin) |
| R3T | Thermistor (suction) | RC (A2P) | Signal receiver circuit |
| R4T | Thermistor (distribution pipe) | S1NPH | Pressure sensor |
| R5T | Thermistor (heat exchanger middle) | S1PH | High pressure switch |
| R11T (A1P) | Thermistor (fin) | S1PL | Low pressure switch |
| RC (A2P) | Signal receiver circuit | TC (A2P) | Signal transmission circuit |
| S1NPH | Pressure sensor | V*D (A1P) | Diode |
| S1PH | High pressure switch | V1R (A1P) | Power module |
| S1PL | Low pressure switch | V2R (A1P) | Diode module |
| TC (A2P) | Signal transmission circuit | V*T (A1P) | IGBT |
| V*D (A1P) | Diode | X1M | Terminal strip |
| V1R (A1P) | Power module | X*A, X*Y (A*P) | Connector |
| V2R (A1P) | Diode module | Y1E, Y3E | Electronic expansion valve |
| V*T (A1P) | IGBT | Y1S | Solenoid valve (4-way valve) |
| X1M | Terminal strip | Z*C | Noise filter (ferrite core) |
| X*A, X*Y (A*P) | Connector | Z*F (A*P) | Noise filter |
| Y1E, Y3E | Electronic expansion valve | | |
| Y1S | Solenoid valve (4-way valve) | | |
| Z*C | Noise filter (ferrite core) | | |
| Z*F (A*P) | Noise filter | | |

* : optional

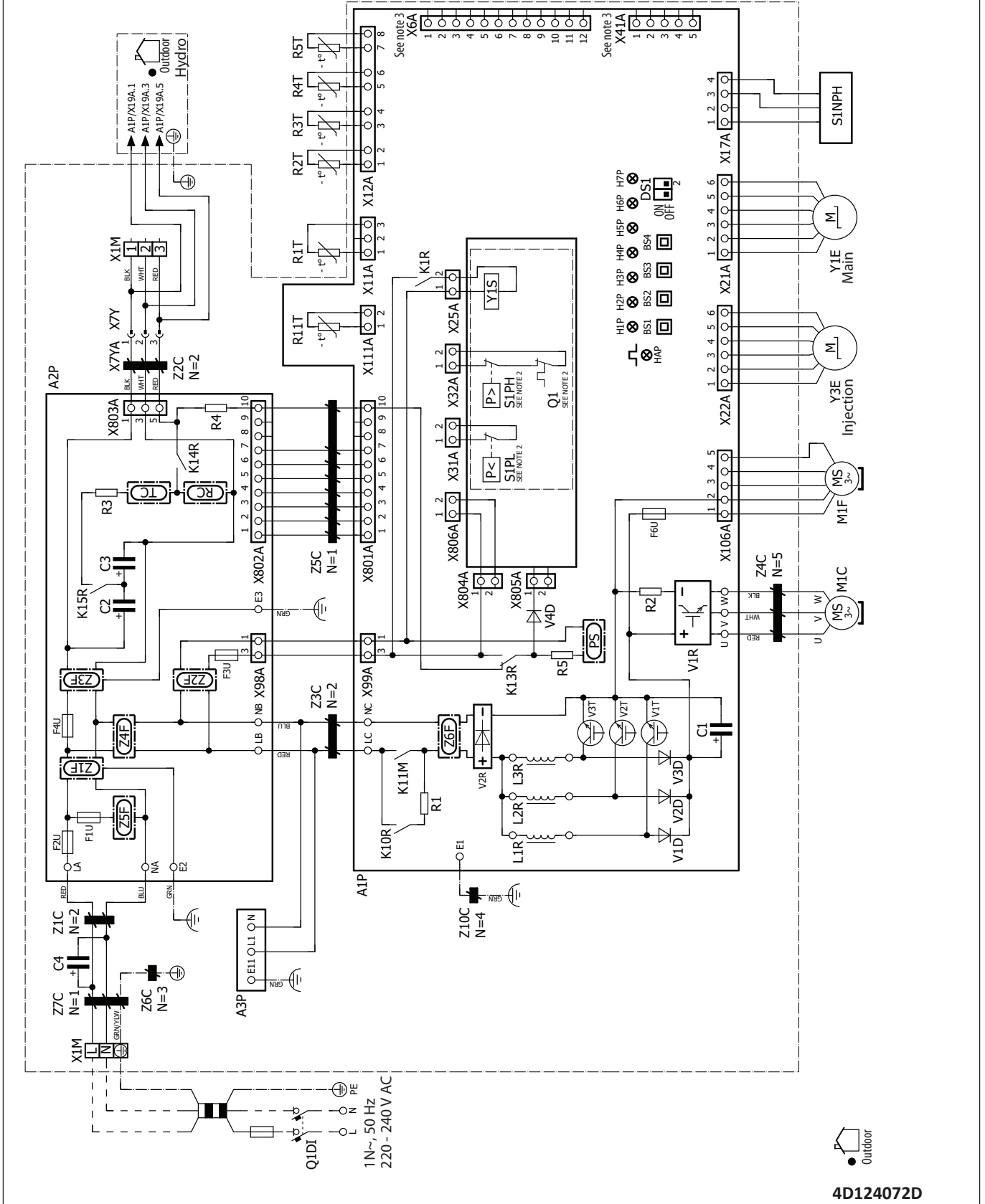
: field supply

4D124072D

10 Wiring diagrams

10 - 4 Compressor - Single phase

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
 EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
 EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
 EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17

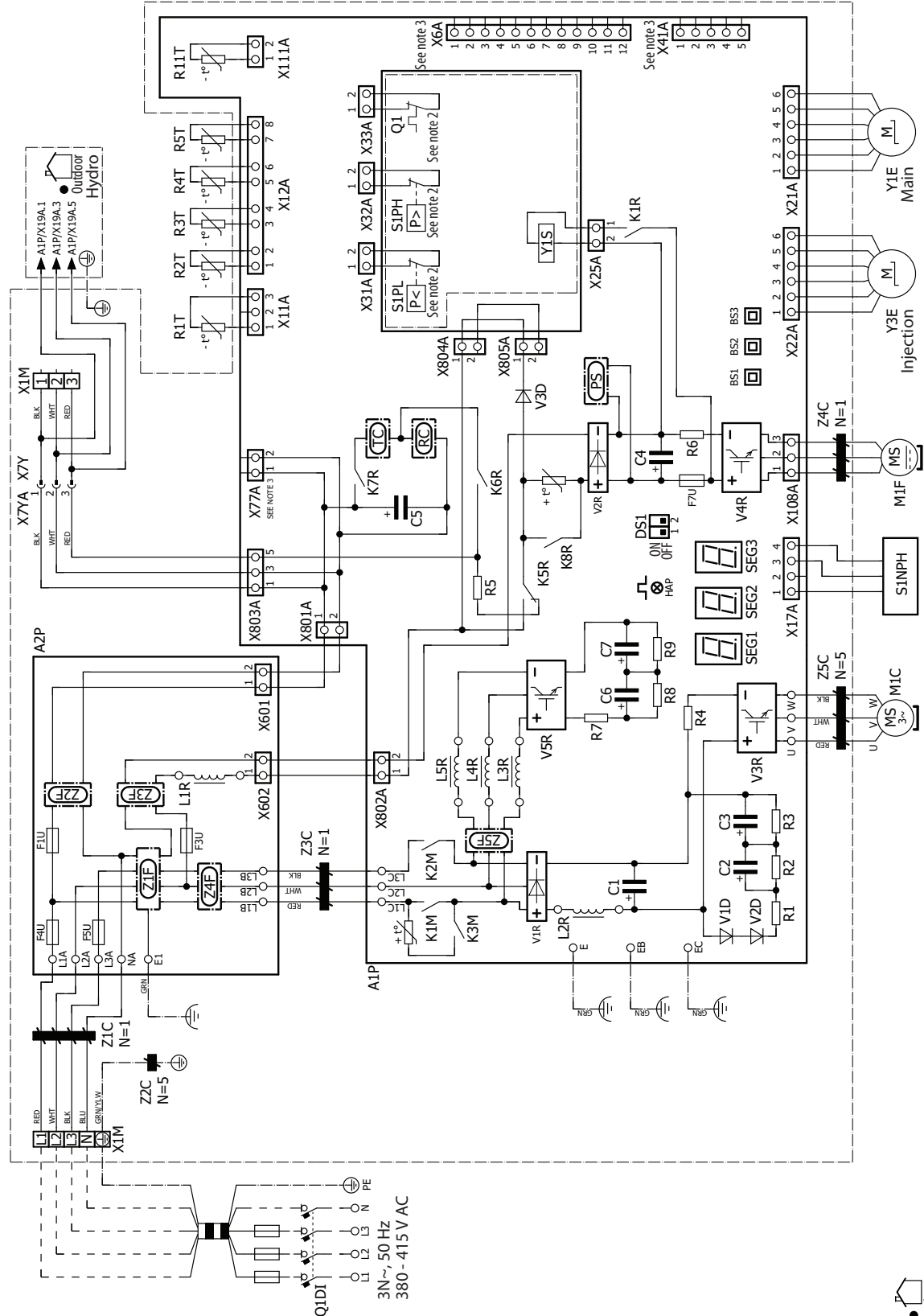


10 Wiring diagrams

10 - 5 Compressor - Three phase

10

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17



Outdoor
4D124072D

10 Wiring diagrams

10 - 6 Hydro Module - Notes & Legend

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17

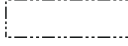
NOTES to go through before starting the unit

- X1M : Main terminal
- X2M : Field wiring terminal for AC
- X3M : External backup heater terminal
- X4M : Booster heater power supply terminal
- X5M : Field wiring terminal for DC
- X9M : Internal backup heater power supply terminal
- X10M : Smartgrid terminal
- : Earth wiring
- - - - - : Field supply

① : Several wiring possibilities



: Option



: Wiring depending on model



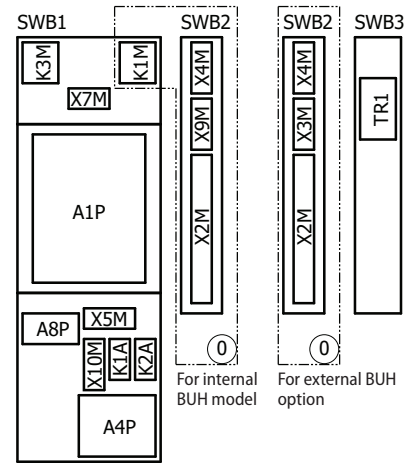
: Not mounted in switch box



: PCB

- Backup heater power supply:
 - 3V (1N~, 230V, 3kW)
- User installed options:
 - LAN adapter
 - Domestic hot water tank
 - External backup heater
 - Booster heater
 - Remote user interface
 - Ext. indoor thermistor
 - Ext. outdoor thermistor
 - Digital I/O PCB
 - Demand PCB
 - Smart grid
 - WLAN cartridge
 - Bypass kit
- Main LWT:
 - ON/OFF thermostat (wired)
 - ON/OFF thermostat (wireless)
 - Ext. thermistor
 - Heat pump convactor
- Add LWT:
 - ON/OFF thermostat (wired)
 - ON/OFF thermostat (wireless)
 - Ext. thermistor
 - Heat pump convactor

POSITION IN SWITCH BOX



NOTE

1. Connection point of the power supply for the backup heater & booster heater should be foreseen outside the unit.

LEGEND

| Part n° | Description |
|----------------|--|
| A1P | main PCB |
| A2P | * ON/OFF thermostat (PC=power circuit) |
| A3P | * heat pump convactor |
| A4P | * digital I/O PCB |
| A8P | * demand PCB |
| A11P | MMI main PCB |
| A13P | * LAN adapter |
| A14P | * user interface PCB |
| A15P | * receiver PCB (wireless ON/OFF thermostat) |
| B1L | flow sensor |
| B1PW | water pressure sensor |
| CN* (A4P) | * connector |
| DS1 (A8P) | * dipswitch |
| E3H | backup heater element (3 kW) |
| E5H | * booster heater element (2,4 kW) |
| E6H | PHE heater (50 W) |
| E7H | OP10 heater (33 W) |
| E8H | OP10 heater (50 W) |
| E9H | expansion vessel heater (50 W) |
| E10H | expansion vessel flex heater (15,6 W) |
| E11H, E12H | PHE heater IN/OUT (33 W) |
| E*P (A9P) | indication LED |
| F1B | # overcurrent fuse backup heater |
| F1T | thermal fuse backup heater |
| F2B | # overcurrent fuse booster heater |
| F2T | thermal fuse booster heater |
| F1U, F2U (A4P) | * fuse 5 A 250 V for digital I/O PCB |
| FU1 (A1P) | fuse T 5 A 250 V for PCB |
| K1A, K2A | * high voltage smartgrid relay |
| K1M | contactor backup heater |
| K3M | * contactor booster heater |
| K*R (A1P-A4P) | relay on PCB |
| M1P | main supply pump |
| M2P | # domestic hot water pump |
| M2S | # 2 way valve for cooling mode |
| M3S | * 3 way valve for floorheating /domestic hot water |
| M4S | * valve kit |
| P1M | MMI display |

| Part n° | Description |
|--------------|---|
| PC (A15P) | * power circuit |
| PHC1 (A4P) | * optocoupler input circuit |
| Q1L | thermal protector backup heater |
| Q2L | * thermal protector booster heater |
| Q4L | # safety thermostat |
| Q*DI | # earth leakage circuit breaker |
| R1H (A2P) | * humidity sensor |
| R1T (A1P) | outlet water heat exchanger thermistor |
| R1T (A2P) | * ambient sensor On/OFF thermostat |
| R1T (A14P) | * ambient sensor user interface |
| R2T (A1P) | internal BUH sensor |
| R2T (A2P) | * external sensor (floor or ambient) |
| R3T | refrigerant liquid side thermistor |
| R4T | inlet water thermistor |
| R5T | * domestic hot water thermistor |
| R6T | * external indoor or outdoor ambient thermistor |
| S1L | * flow switch |
| S1S | # preferential kWh rate PS contact |
| S*T | thermostat |
| S2S | # electrical meter pulse input 1 |
| S3S | # electrical meter pulse input 2 |
| S4S | # smartgrid feed-in |
| S6S-S9S | * digital power limitation inputs |
| S10S-S11S | # low voltage smartgrid contact |
| SS1 (A4P) | * selector switch |
| SW1~2 (A11P) | turn buttons |
| SW3~5 (A11P) | push button |
| TR1 | power supply transformer |
| X4M | * booster heater power supply terminal strip |
| X6M, X8M | # power supply terminal strip client |
| X9M | backup heater power supply terminal strip |
| X10M | * smartgrid power supply terminal strip |
| X*, X*A, X*Y | connector |
| X*M | terminal strip |
| Z*C | noise filter (ferrite core) |

* : optional

: field supply

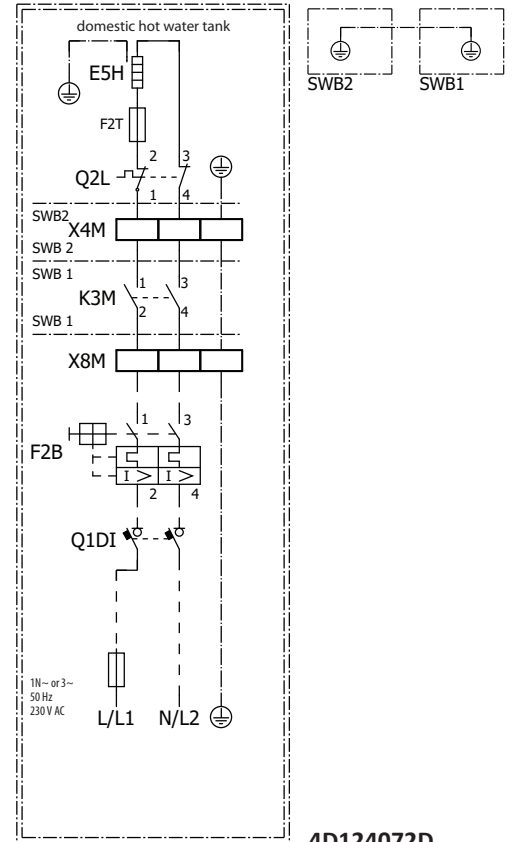
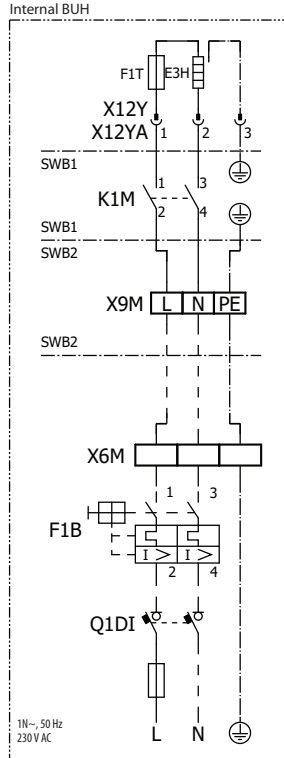
4D124072D

10 Wiring diagrams

10 - 7 Hydro Module - Power Supply, Back-up Heater

10

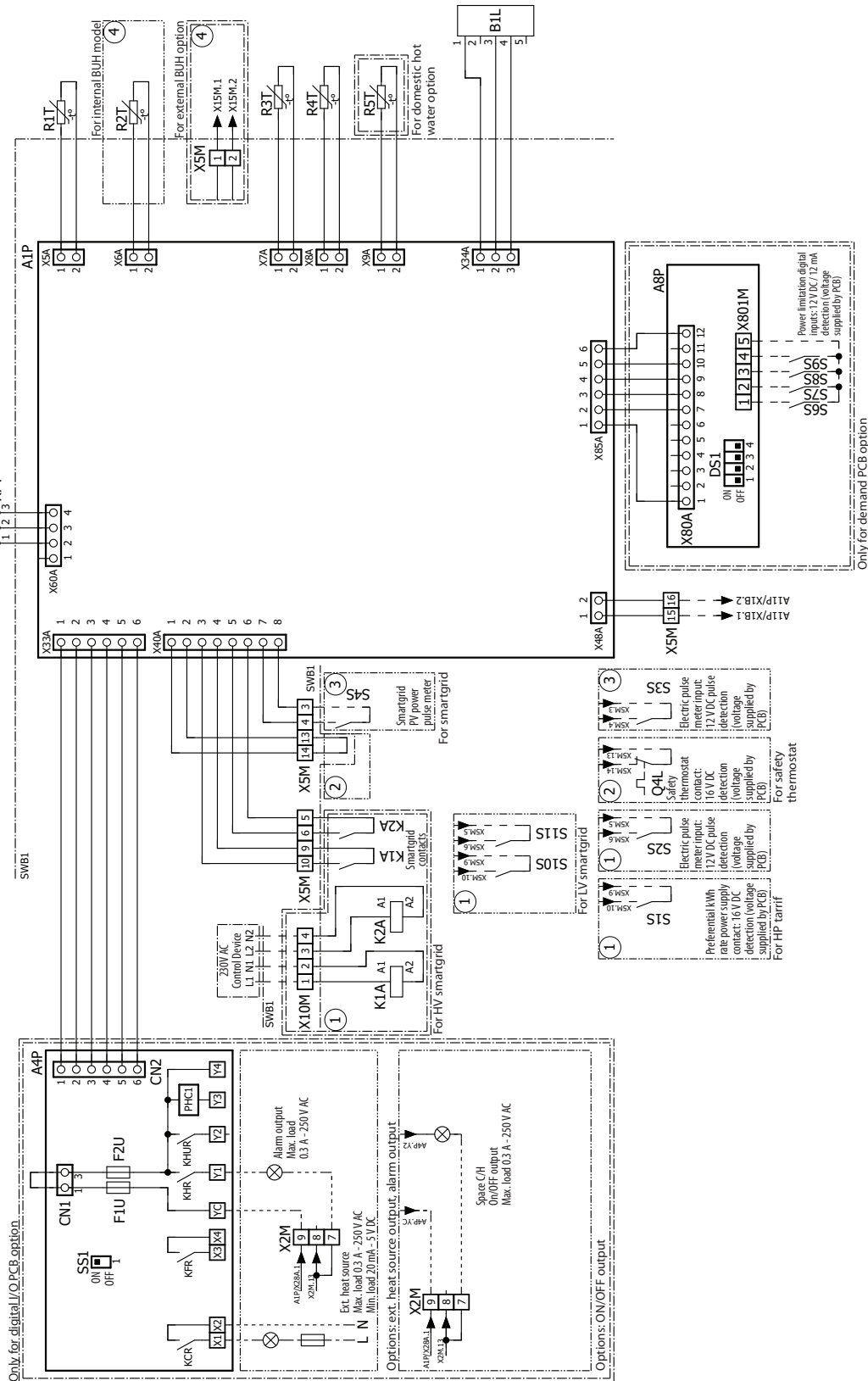
EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
 EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
 EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
 EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17



10 Wiring diagrams

10 - 8 Hydro Module - Control Circuit

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
 EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
 EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
 EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17



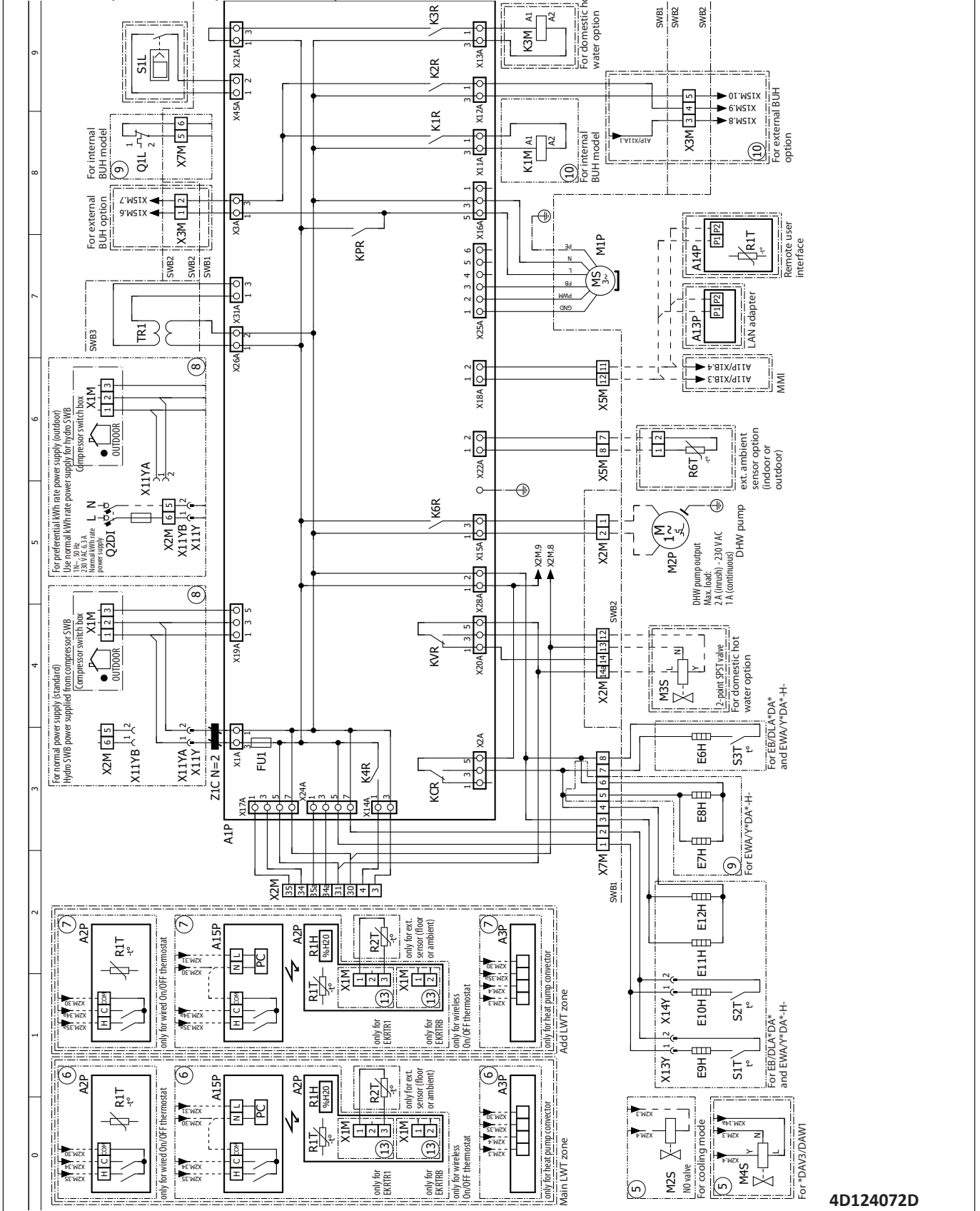
4D124072D

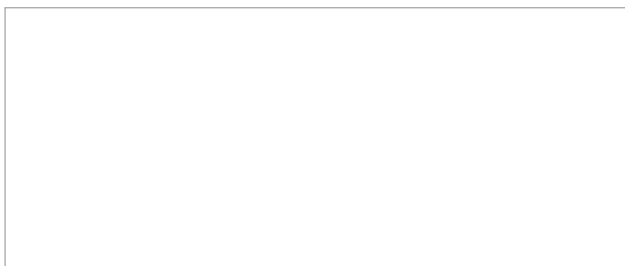
10 Wiring diagrams

10 - 8 Hydro Module - Control Circuit

10

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
 EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
 EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
 EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17





EEEDEN22

09/2022



The present leaflet is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V. Daikin Europe N.V. has compiled the content of this leaflet to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this leaflet. All content is copyrighted by Daikin Europe N.V.