

10 Wiring diagrams

10 - 1 Notes & Legend

EBLA09-16(DW1-DV3) / EBLA09-16(3DW1-3DV3) / EDLA09-16(DW1-DV3) / EDLA09-16(3DW1-3DV3)

(2) Notes

X14M, X15M : Main terminal
 15 : Earth wiring
 : Wire number 15
 : Field supply

① : Several wiring possibilities

: Option

: Wiring depending on model

: switch box

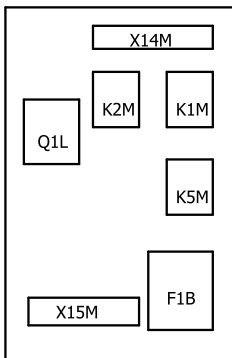
: PCB

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 (1kW)
E2H	BUH element (2kW)
F1B	Overcurrent fuse BUH
F1T	Thermal fuse BUH
F1U	Fuse
K1M	Contactor BUH (Step 1)
K2M	Contactor BUH (Step 2)
K5M	Safety contactor BUH
Q3DI	# Earth leakage circuit breaker
Q1L	Thermal protector BUH
R2T	Outlet BUH thermistor
X*M	Terminal strip

: field supply

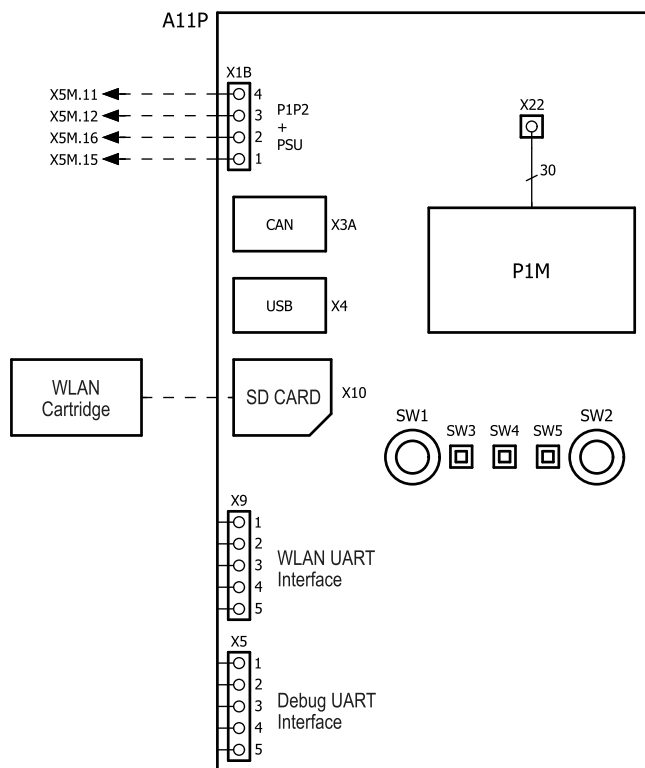
4D124072B

10 Wiring diagrams

10 - 2 Control Circuit

EBLA09-16(DW1-DV3) / EBLA09-16(3DW1-3DV3) / EDLA09-16(DW1-DV3) / EDLA09-16(3DW1-3DV3)

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10 Wiring diagrams

10 - 3 Compressor - Notes & Legend

EBLA09-16(DW1-DV3) / EBLA09-16(3DW1-3DV3) / EDLA09-16(DW1-DV3) / EDLA09-16(3DW1-3DV3)

NOTES to go through before starting the unit

X1M : Main terminal
 — : Earth wiring
 - - - : Field supply

① : Several wiring possibilities

Option

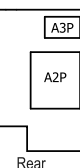
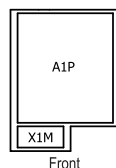
Wiring depending on model

Not mounted in switch box

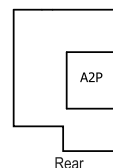
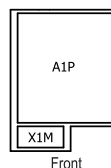
PCB

POSITION IN SWITCH BOX

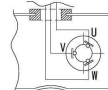
1PH UNIT



3PH UNIT



Position of compressor terminal



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

1PH UNIT

Part n°	Description
A1P	Printed circuit board (main)
A2P	Printed circuit board (noise filter)
A3P	Printed circuit board (flash)
C* (A*P)	Capacitor
BS* (A1P)	Push-button switch
DS1 (A1P)	Dipswitch
F1U, F3U~F4U (A2P)	Fuse T 6,3 A 250 V
F2U (A2P)	Fuse T 56 A 250 V
F6U (A1P)	Fuse T 5 A 250 V
H1~7P (A1P)	Indication light emitting diode (service monitor is orange)
HAP (A1P)	Light emitting diode (service monitor is green)
K1R (A1P)	Magnetic relay (Y1S)
K10R (A1P)	Magnetic relay
K11M (A1P)	Magnetic relay (main)
K14~15R (A2P)	Magnetic relay
L*R (A1P)	Reactor
M1C	Compressor motor
M1F	Fan motor
PS (A1P)	Switching power supply
Q1	Thermal overcurrent protector
Q1DI	# Earth leakage circuit breaker (30mA)
R1~5 (A*P)	Resistor
R1T	Thermistor (air)
R2T	Thermistor (discharge)
R3T	Thermistor (suction)
R4T	Thermistor (distribution pipe)
R5T	Thermistor (heat exchanger middle)
R11T (A1P)	Thermistor (fin)
RC (A2P)	Signal receiver circuit
S1NPH	Pressure sensor
S1PH	High pressure switch
S1PL	Low pressure switch
TC (A2P)	Signal transmission circuit
V*D (A1P)	Diode
V1R (A1P)	Power module
V2R (A1P)	Diode module
V*T (A1P)	IGBT
X1M	Terminal strip
X*A, X*Y (A*P)	Connector
Y1E, Y3E	Electronic expansion valve
Y1S	Solenoid valve (4-way valve)
Z*C	Noise filter (ferrite core)
Z*F (A*P)	Noise filter

3PH UNIT

Part n°	Description
A1P	Printed circuit board (main)
A2P	Printed circuit board (noise filter)
C* (A1P)	Capacitor
BS* (A1P)	Push-button switch
DS1 (A1P)	Dipswitch
F1U, F3U (A2P)	Fuse T 6,3 A 250 V
F4U, F5U (A2P)	Fuse T 30 A 500 V
F7U (A1P)	Fuse T 5 A 250 V
HAP (A1P)	Light emitting diode (service monitor is green)
K1R (A1P)	Magnetic relay (Y1S)
K5~8R (A1P)	Magnetic relay
K*M (A1P)	Magnetic relay (main)
L*R (A*P)	Reactor
M1C	Compressor motor
M1F	Fan motor
PS (A1P)	Switching power supply
Q1	Thermal overcurrent protector
Q1DI	# Earth leakage circuit breaker (30mA)
R1~9 (A1P)	Resistor
R1T	Thermistor (air)
R2T	Thermistor (discharge)
R3T	Thermistor (suction)
R4T	Thermistor (distribution pipe)
R5T	Thermistor (heat exchanger middle)
R11T (A1P)	Thermistor (fin)
RC (A1P)	Signal receiver circuit
S1NPH	Pressure sensor
S1PH	High pressure switch
S1PL	Low pressure switch
SEG* (A1P)	7-segment display
TC (A1P)	Signal transmission circuit
V*D (A1P)	Diode
V1~2R (A1P)	Diode module
V3~5R (A1P)	Power module
X1M	Terminal strip
X*A, X*Y (A*P)	Connector
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

4D124072B

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10 - 4 Compressor - Single phase

EBLA09-16(DW1-DV3) / EBLA09-16(3DW1-3DV3) / EDLA09-16(DW1-DV3) / EDLA09-16(3DW1-3DV3)

