

# 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
- : Earth wiring
- 15 : Wire number 15
- - - : Field supply

① : Several wiring possibilities

 : Option

 : Wiring depending on model

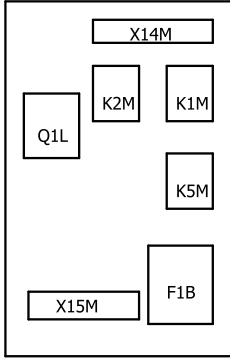
 : switch box

 : 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	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

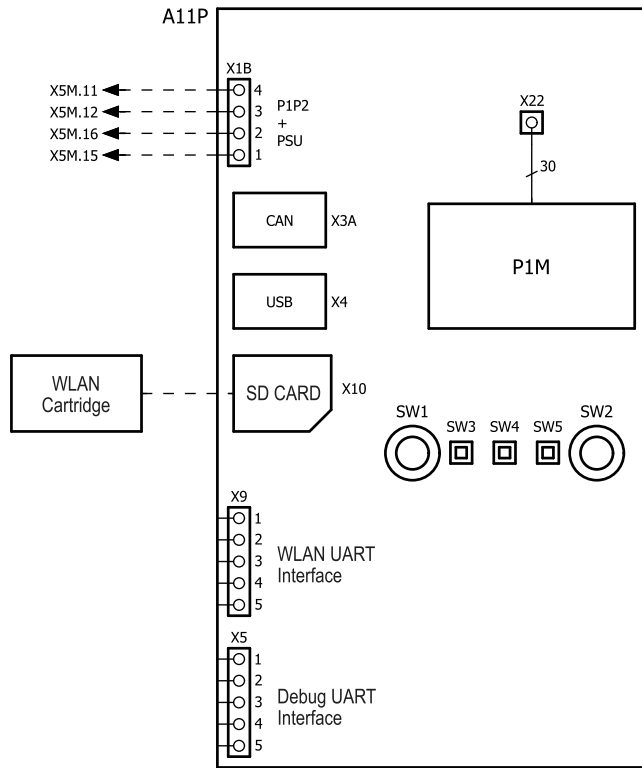
**4D124072B**

# 10 Wiring diagrams

## 10 - 2 Control Circuit

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



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# 10 Wiring diagrams

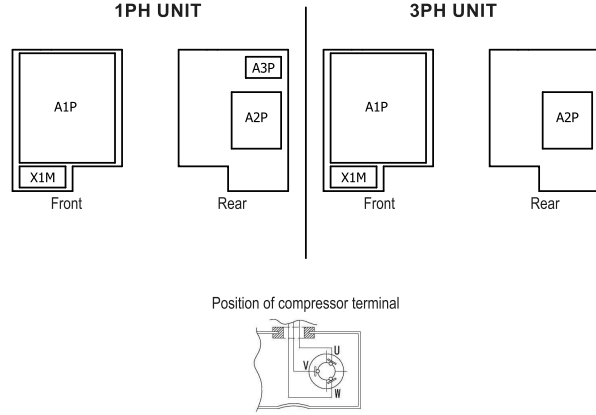
## 10 - 3 Compressor - Notes & Legend

**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**



**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		3PH 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 500 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
K11M (A1P)	Magnetic relay (main)	M1C	Compressor motor
K14~15R (A2P)	Magnetic relay	M1F	Fan motor
L*R (A1P)	Reactor	PS (A1P)	Switching power supply
M1C	Compressor motor	Q1	Thermal overcurrent protector
M1F	Fan motor	Q1DI	# Earth leakage circuit breaker (30mA)
PS (A1P)	Switching power supply	R1~9 (A1P)	Resistor
Q1	Thermal overcurrent protector	R1T	Thermistor (air)
Q1DI	# Earth leakage circuit breaker (30mA)	R2T	Thermistor (discharge)
R1~5 (A*P)	Resistor	R3T	Thermistor (suction)
R1T	Thermistor (air)	R4T	Thermistor (distribution pipe)
R2T	Thermistor (discharge)	R5T	Thermistor (heat exchanger middle)
R3T	Thermistor (suction)	R11T (A1P)	Thermistor (fin)
R4T	Thermistor (distribution pipe)	RC (A1P)	Signal receiver circuit
R5T	Thermistor (heat exchanger middle)	S1NPH	Pressure sensor
R11T (A1P)	Thermistor (fin)	S1PH	High pressure switch
RC (A2P)	Signal receiver circuit	S1PL	Low pressure switch
S1NPH	Pressure sensor	SEG* (A1P)	7-segment display
S1PH	High pressure switch	TC (A1P)	Signal transmission circuit
S1PL	Low pressure switch	V*D (A1P)	Diode
TC (A2P)	Signal transmission circuit	V1~2R (A1P)	Diode module
V*D (A1P)	Diode	V3~5R (A1P)	Power module
V1R (A1P)	Power module	X1M	Terminal strip
V2R (A1P)	Diode module	X*A, X*Y (A*P)	Connector
V*T (A1P)	IGBT	Y1E, Y3E	Electronic expansion valve
X1M	Terminal strip	Y1S	Solenoid valve (4-way valve)
X*A, X*Y (A*P)	Connector	Z*C	Noise filter (ferrite core)
Y1E, Y3E	Electronic expansion valve	Z*F (A*P)	Noise filter
Y1S	Solenoid valve (4-way valve)		
Z*C	Noise filter (ferrite core)		
Z*F (A*P)	Noise filter		

\* : optional # : field supply

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# 10 Wiring diagrams

## 10 - 5 Compressor - Three phase

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