

9 Wiring diagrams

9 - 1 Notes & Legend

ERLA11-16DV3 / ERLA11-16DW1

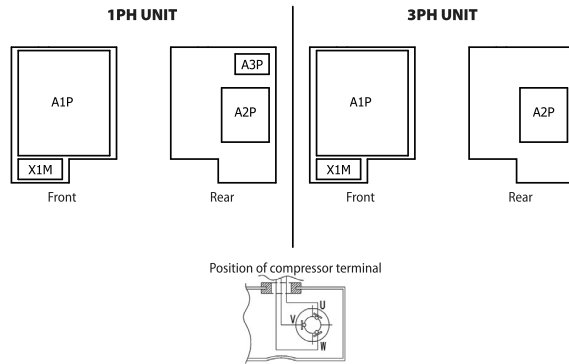
NOTES to go through before starting the unit

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

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

POSITION IN SWITCH BOX



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 (Y15)
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*V (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 (Y15)
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

4D132942A

9 Wiring diagrams

9 - 2 Compressor - Single phase

