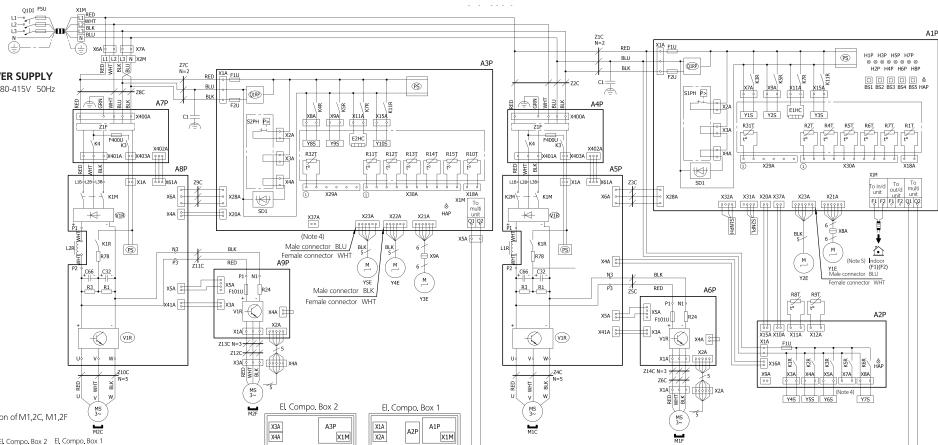


# EMRQ14-16A

Q101 P101

## POWER SUPPLY

3/N ~ 380-415V 50Hz



Position of M1, 2C, M1, 2F

EL Compo. Box 2 EL Compo. Box 1

Detail of M1C, M2C

Wiring diagram sticker

Outer sheet

Pinned circuit board		
A1P~A5P	A1P: Main A2P: Sub.1 A3P: Sub.2	A4P: A1P: Noise filter A5P: A1P: Inverter A6P: A1P: Fan
B51~B55	Push button switch (B54: set, return, test, reset)	
C1, C2, C66	Capacitor	
E1HC, E2HC	Crankshaft heater (A1P, A3P)	
F1U, F2U	Fuse (T, 315A, 250V) (A1P, A3P)	
F3U	Fuse (T, 315A, 250V) (A4P)	
F3DU	Fuse (A4P, A5P)	
F5U	Foil/fuse	
F4DU	Fuse (T, 6.3250V) (A4P/A5P)	
H1P~H5P	H1P: Lamp (Service monitor) (orange) H2P: Lamp (Service monitor) (blue) H3P: Lamp (Service monitor) (green) (A1P, A3P, A5P) H4P: Lamp (Service monitor) (green) (A1P, A3P, A5P) H5P: Lamp (Service monitor) (green) (A1P, A3P, A5P)	
K1R	Magnetic relay (A3P, A4P)	
K3	Magnetic relay (A4P, A7P)	
K1M, K2M	Magnetic contactor (M1C-A3P, M2C-A3P)	
K4	Magnetic contactor (M1C-A4P, M2C-A4P)	
Magnetic relay		
K1R~K7R, K1R	K5R: for option (A2P) K2R: Y5S (A3P) K3R: Y15 (A4P) K4R: Y5S (A2P) K6R: Y5S (A2P) K7R: Y25 (A4P)	K8R: Y5S (A2P) K9R: Y15 (A2P) K10R: Y5S (A2P) K11R: Y15 (A2P)
L1R, L2R	Reactor	
M1C, M2C	Motor Compressor	
M1P, M2P	Motor Fan	
P5	Switching power supply (A1P, A3P, A5P, A6P)	
Q101	Earth leakage breaker	
Q10P	Reverse phase detector circuit (A1P, A3P)	
R24	Resistor (current sensor) (A4P, A5P)	
R1, R3	Resistor (A4P, A5P)	
R7R	Resistor (current limiting) (A5P, A6P)	
Thermistor		
R1T: Air (A1P)	R9T: Section 1	
R2T: HE gas 1	R9T: Liquid	
R3T: M1C Discharge	R10T: Section 2	
R3T: M2C Discharge	R11T: HE gas 2	
R4T: HE deion 1	R12T: HE deion 2	
R5T: Subcool HE gas 1	R13T: Subcool HE gas 2	
R6T: Subcool HE Liq	R14T: Liquid 2	
R7T: HE Liquid 1	R15T: HE Liquid 2	

S1PH	Pressure sensor (high)
S2PH	Pressure sensor (low)
S1P, S2P	Pressure switch (high)
S01	Safety devices input (A1P, 3AP)
V1R	Diode bridge (A5P, A6P)
V1R	Power module (A4P, A5P)
X1M~X5A	Connector
X1M	Terminal strip (Power supply)
X1M	Terminal strip (Control) (A1P, A3P)
X2M	Terminal strip (Relay)
Y1E	Electronic expansion valve (Main 1)
Y2E	Electronic expansion valve (Subcool 1)
Y3E	Electronic expansion valve (Main 2)
Y4E	Electronic expansion valve (Charge)
Y5E	Electronic expansion valve (Subcool 2)

Y1S~Y10S	Solenoid valve	
	Y1S: R1M/G	Y6S: R1M/T
Y2S: 4 way valve (HE 1)	Y7S: R1M/D	
Y3S: R1M/L	Y8S: 4 way valve (pipe)	
Y4S: hot gas	Y9S: 4 way valve (HE 2)	
Y5S: EV Bypass 1	Y10S: EV Bypass 2	

Connector for optional parts	
Z1~Z14C	Noise filter (Ferrite core)
Z1F	Noise filter (with surge absorber) (A4P, A7P)
X7A	Operation output (A2P)
X7B	Power supply (Adapter) (A2P)
X7A	Power supply (Adapter) (A3P)

### Notes

- This wiring diagram only applies to the outdoor unit.
- Field wiring
- Terminal strip : Connector  
Protective earth (screw) : Terminal
- When using the option adapter, refer to the installation manual
- Refer to the installation manual for connection wiring to indoor - outdoor unit transmission F1-F2 and how to use BS1-B55
- Do not operate the unit by short-circuiting any protection device S1PH, S2PH.
- BLK = Black RED = Red YLW = Yellow WHT = White PNK = Pink BRN = Brown GRY = Grey GRN = Green ORG = Orange BLU = Blue