

9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

RXYA14-20A

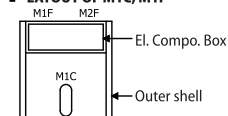
NOTES to go through before starting the unit

1. Symbols:

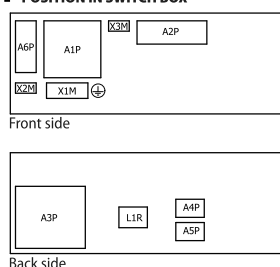
- X1M : Main terminal
 --- : Earth wiring
 --- : Field wire
 --- : Field cable
 --- : Screened conductor
 ① : Several wiring possibilities
- Option
 : Wiring depending on model
 : Not mounted in switch box
 : PCB

- Refer to the installation or service manual on how to use BS1 ~ BS3 push buttons and DS1 ~ DS2 DIP switches.
- Do not operate the unit by short-circuiting protection device(s) S1PH and S2PH.
- Refer to the installation manual for indoor-outdoor transmission F1-F2 and outdoor-multi transmission Q1-Q2 wiring.
- When using the central control system, connect outdoor-outdoor transmission F1-F2.
- The capacity of the contact is 220~240V AC - 0.5A (Rush current needs 3A or less).
- Use dry contact for micro-current (10mA or less, 15V DC).
- When using the optional adapter, refer to the installation manual of the optional adapter.

LAYOUT OF M1C, M1F



POSITION IN SWITCH BOX



TERMINAL OF M1C



LEGEND

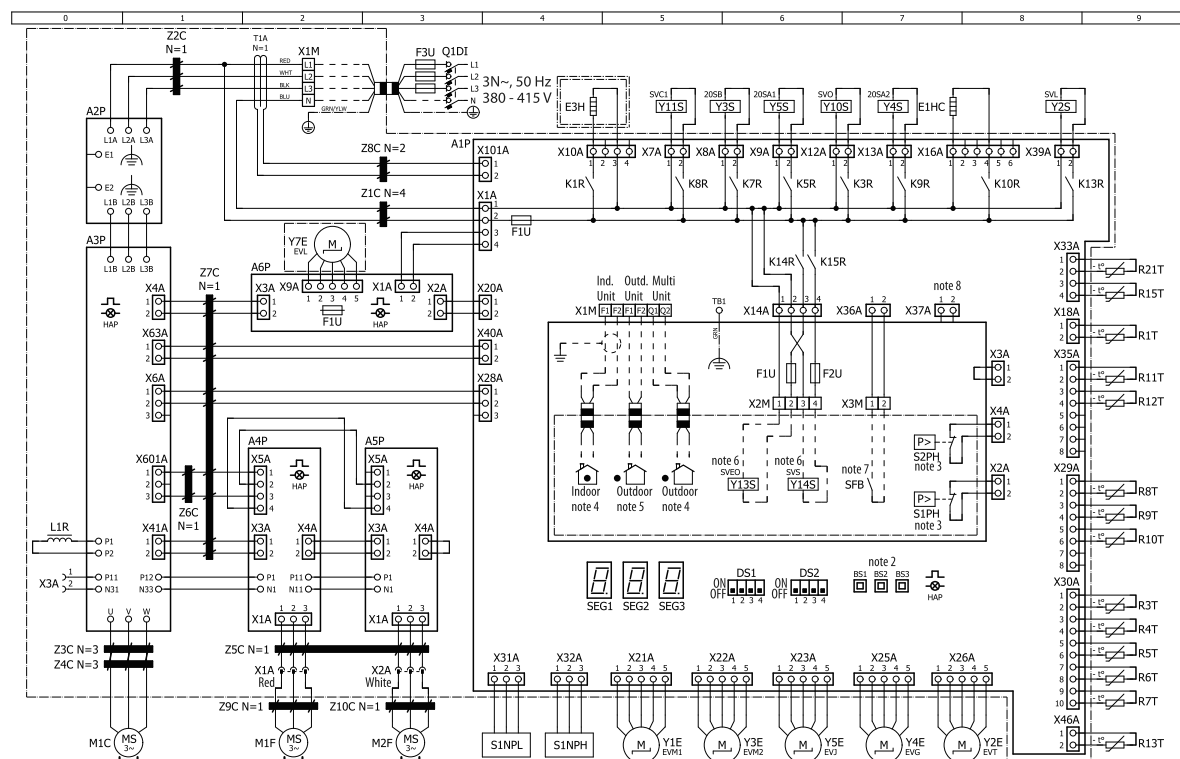
Part n°	Description	Part n°	Description
A1P	Printed circuit board (main)	R12T	Thermistor (Suction compressor)
A2P	Printed circuit board (noise filter)	R13T	Thermistor (Receiver gas)
A3P	Printed circuit board (inverter)	R15T	Thermistor (M1C body)
A4P, A5P	Printed circuit board (fan)	R21T	Thermistor (M1C discharge pipe)
A6P	Push button switch	S1NPH	High pressure sensor
BS* (A1P)	Push button switch	S1NPL	Low pressure sensor
DS* (A1P)	Dipswitch	S*PH	High pressure switch
E1HC	Crank case heater	SEG* (A1P)	7-segment display
E3H	* Bottom plate heater	SFB	# Mechanical ventilation error input
F1U (A1P)	Fuse T 10 A 250 V	T1A	Current sensor
F1U (A6P)	Fuse 3.15 A 250 V	X*A	Connector
F1U, F2U	Fuse T 1 A 250 V	X*M	Terminal strip
F3U	# Field fuse	Y1E	Electronic exp. valve (Heat exch. upper)
HAP (A1P)	Running LED (service monitor-green)	Y2E	Electronic exp. valve (Subc. heat exch.)
K*R (A*P)	Relay on PCB	Y3E	Electronic exp. valve (Heat exch. lower)
L1R	Reactor	Y4E	Electronic exp. valve (Receiver gas)
M1C	Motor (compressor)	Y5E	Electronic exp. valve (Inverter cooling)
M1F, M2F	Motor (fan)	Y2S	Solenoid valve (Liquid pipe)
Q1DI	# Earth leakage circuit breaker	Y3S	Solenoid valve (HP/LP gas pipe)
R1T	Thermistor (Air)	Y4S	Solenoid valve (Heat exchanger lower)
R3T	Thermistor (Liquid main)	Y5S	Solenoid valve (Heat exchanger upper)
R4T	Thermistor (Heat exch. liquid upper)	Y10S	Solenoid valve (Accu oil return)
R5T	Thermistor (Heat exch. liquid lower)	Y11S	Solenoid valve (M1C oil return)
R6T	Thermistor (Subcool heat exch. gas)	Y13S	# Error operation output (SVEO)
R7T	Thermistor (Subcool heat exch. liquid)	Y14S	# Leak sensor output (SVS)
R8T	Thermistor (Heat exch. gas upper)	Z*C	Noise filter (ferrite core)
R9T	Thermistor (Heat exch. gas lower)		
R10T	Thermistor (Suction)		
R11T	Thermistor (Heat exch. de-icer)		

*: optional

#: field supply

4D147772

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