

9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

RYMA5A / RXYA8-12A

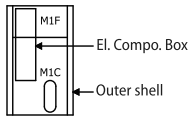
NOTES to go through before starting the unit

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) S*PH.
- 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.

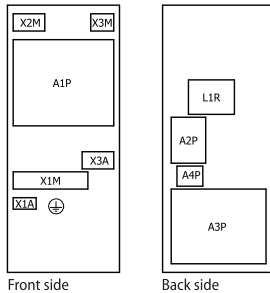
LAYOUT OF M1C, M1F



TERMINAL OF M1C



POSITION IN SWITCH BOX



LEGEND

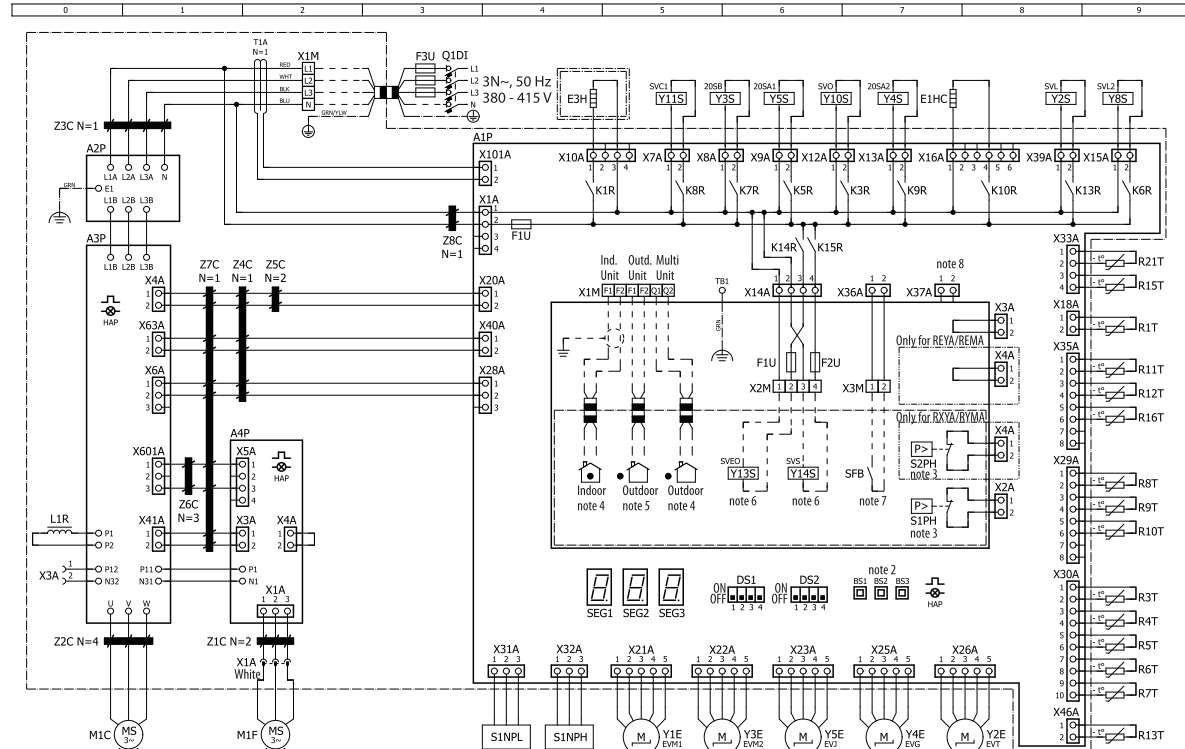
Part n°	Description	Part n°	Description
A1P	Printed circuit board (main)	R13T	Thermistor (Receiver gas)
A2P	Printed circuit board (noise filter)	R15T	Thermistor (M1C body)
A3P	Printed circuit board (inverter)	R16T	Thermistor (Gas injection)
A4P	Printed circuit board (fan)	R21T	Thermistor (M1C discharge pipe)
BS* (A1P)	Push button switch	S1NPH	High pressure sensor
DS* (A1P)	Dipswitch	S1NPL	Low pressure sensor
E1HC	Crank case heater	S*PH	High pressure switch
E3H	* Bottom plate heater	SEG* (A1P)	7-segment display
F1U (A1P)	Fuse T 10 A 250 V	SFB	# Mechanical ventilation error input
F1U, F2U	Fuse T 1 A 250 V	T1A	Current sensor
F3U	# Field fuse	X*A	Connector
HAP (A1P)	Running LED (service monitor-green)	X*M	Terminal strip
K*R (A*P)	Relay on PCB	Y1E	Electronic exp. valve (Heat exch. upper)
L1R	Reactor	Y2E	Electronic exp. valve (Subc. heat exch.)
M1C	Motor (compressor)	Y3E	Electronic exp. valve (Heat exch. lower)
M1F	Motor (fan)	Y4E	Electronic exp. valve (Receiver gas)
Q1DI	# Earth leakage circuit breaker	Y5E	Electronic exp. valve (Inverter cooling)
R1T	Thermistor (Air)	Y2S	Solenoid valve (Liquid pipe)
R3T	Thermistor (Liquid main)	Y3S	Solenoid valve (HP/LP gas pipe)
R4T	Thermistor (Heat exch. liquid upper)	Y4S	Solenoid valve (Heat exchanger lower)
R5T	Thermistor (Heat exch. liquid lower)	Y5S	Solenoid valve (Heat exchanger upper)
R6T	Thermistor (Subcool heat exch. gas)	Y8S	Solenoid valve (Gas injection)
R7T	Thermistor (Subcool heat exch. liquid)	Y10S	Solenoid valve (Accu oil return)
R8T	Thermistor (Heat exch. gas upper)	Y11S	Solenoid valve (M1C oil return)
R9T	Thermistor (Heat exch. gas lower)	Y13S	# Error operation output (SVEO)
R10T	Thermistor (Suction)	Y14S	# Leak sensor output (SVS)
R11T	Thermistor (Heat exch. de-icer)	Z*C	Noise filter (ferrite core)
R12T	Thermistor (Suction compressor)		

*: optional

#: field supply

4D148982

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