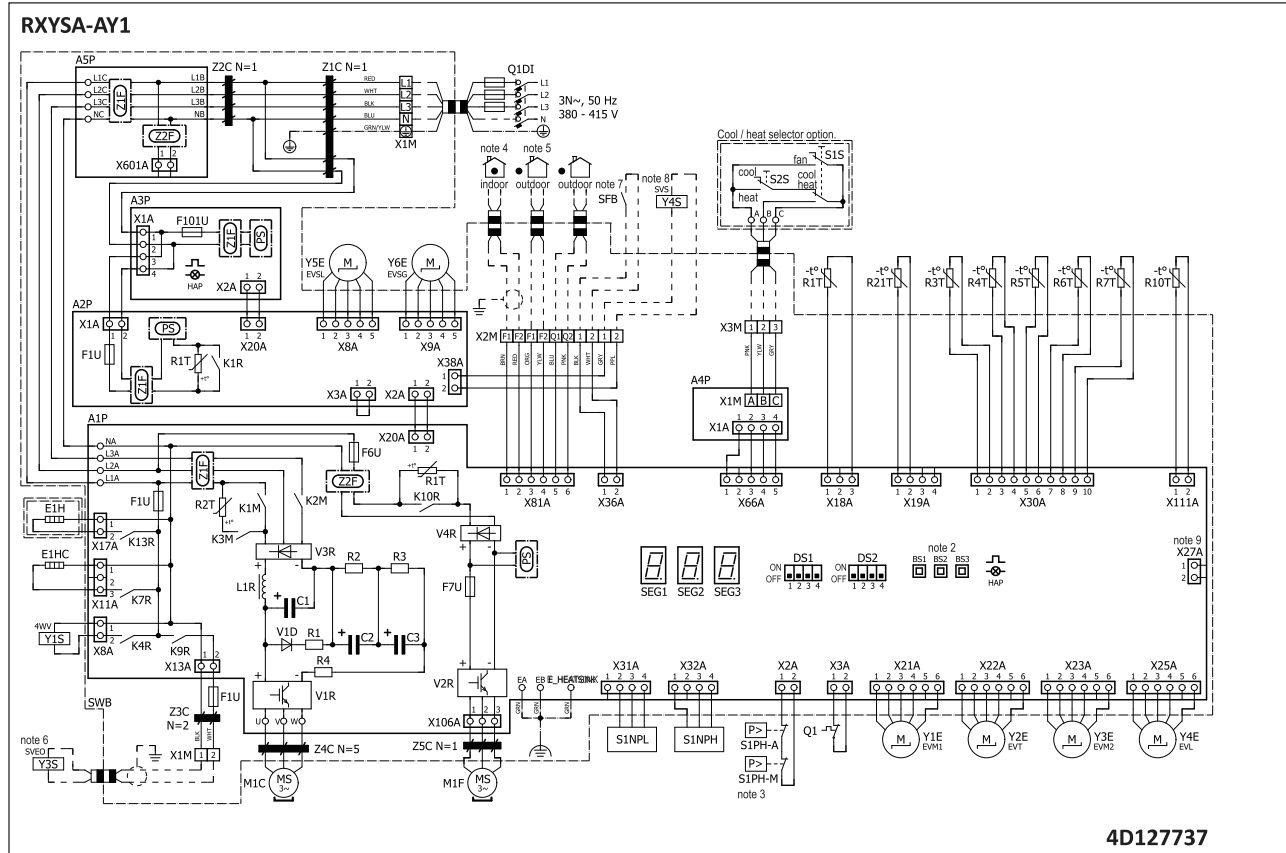


10 Wiring diagrams

10 - 1 Wiring Diagrams - Three Phase



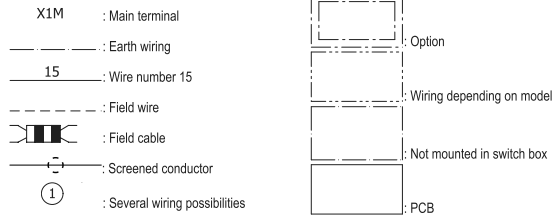
10 Wiring diagrams

10 - 2 Notes & Legend

RXYSA-AY1

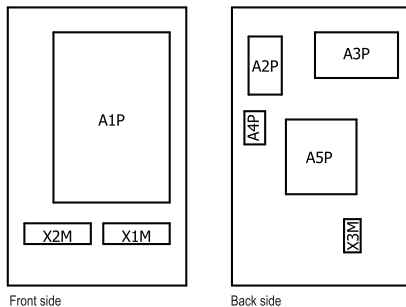
NOTES to go through before starting the unit

1. Symbols



- Refer to the installation or service manual on how to use BS1 ~ BS3 push buttons and DS1-1 ~ DS1-2 DIP switches.
- Do not operate the unit by short-circuiting protection device S1PH. S1PH-A automatically resets after high pressure has been exceeded. S1PH-M has to be manually reset after high pressure has been exceeded.
- Refer to the installation manual for indoor-outdoor transmission F1-F2 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 (1 mA or less 12V DC).
- Digital output; max 40V DC - 0.025A. Refer to installation manual for how to use this output.
- For X27A refer to the installation manual of the option.

POSITION IN SWITCH BOX



LEGEND

Part n°	Description	Part n°	Description
A1P	main PCB	S1NPL	low pressure sensor
A2P	sub PCB	S1PH*	high pressure switch
A3P	back up PCB	S1S	* air control switch
A4P	cool / heat selector PCB	S2S	* cool / heat switch
A5P	noise filter PCB	SEG* (A1P)	7-segment display
BS* (A1P)	push button switch	SFB	# mechanical ventilation error input
C* (A1P)	capacitors	V*D	diode
DS* (A1P)	dipswitch	V1R, V2R (A1P)	IGBT power module
E1H	* bottom plate heater	V3R, V4R (A1P)	diode module
E1HC	crank case heater	X*A	PCB connector
F1U (A1P)	fuse T 6.3 A 250 V	X*M	terminal strip
F1U (A2P)	fuse T 3.15 A 250 V	X*Y	connector
F1U	fuse T 1.0 A 250 V	Y1E	electronic exp. valve (main - EVM1)
F6U (A1P)	fuse T 6.3 A 250 V	Y2E	electronic exp. valve (EVT)
F7U (A1P)	fuse T 5 A 250 V	Y3E	electronic exp. valve (main - EVM2)
F10U (A3P)	fuse T 2.0 A 250 V	Y4E	electronic exp. valve (EVL)
HAP (A1P,A3P)	running LED (service monitor-green)	Y5E	electronic exp. valve (EVSL)
K*M (A1P)	contactor on PCB	Y6E	electronic exp. valve (EVSG)
K*R (A*P)	relay on PCB	Y1S	solenoid valve (4-way valve)
L1R (A1P)	reactor	Y3S	# error operation output (SVEO)
M1C	motor (compressor)	Y4S	# leak sensor output (SVS)
M1F	motor (fan)	Z*C	noise filter (ferrite core)
PS* (A*P)	switching power supply	Z*F (A*P)	noise filter
Q1	overload switch		
Q1DI	# earth leakage circuit breaker		
R* (A1P)	resistor		
R1T	thermistor (ambient)		
R3T	thermistor (suction)		
R4T	thermistor (liquid)		
R5T	thermistor (subcool)		
R6T	thermistor (superheat)		
R7T	thermistor (heat exchanger)		
R10T	thermistor (fin)		
R21T	thermistor (discharge)		
R*T (A*P)	PTC thermistor		
S1NPH	high pressure sensor		

* : optional # : field supply

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