

RXR03 SERIES

High Voltage Contactors

50 CONTINUOUS DUTY

1500V SYSTEM VOLTAGE



FEATURES

SPST Normally Open High Voltage Contactors

- Ceramic seal
- PCB Mountable (optional)
- Bi-directional power switching
- Meets RoHS 2011/65/EU
- REACH Compliant





PERFORMANCE

TABLE 4 CRECIFICATIONS			
TABLE 1. SPECIFICATIONS CHARACTERISTIC	MEASURE		
Contact Arrangement			
Max Switching Voltage	1.500 VDC		
electric Withstand Voltage (Max Leakage Current: 1mA) 3,000 VAC, 1 minute contacts to coil 3,000 VAC, 1 minute across open contacts			
Continuous Current (8.4mm² conductor)	50A		
(5.3mm ² conductor)	40A		
Overload Current 10 seconds 30 seconds	120A 90A		
Max Break – 200A @ 1000V	1 cycle		
Max Short Circuit Current -1 second	200 A		
lin Insulation Resistance 1,000 Mohm @ 500VDC			
Contact Voltage Drop (Max)	50mV @ 10A		
Operate Time (Max, incl bounce)	30ms		
Release Time (Max)	10ms		
Shock - Functional, 1/2 Sine, 11ms	20G		
Shock – Destructive, 1/2 Sine, 11ms	50G		
Operating Temperature	-40°C to 85°C		
Vibration 10Hz-2.000Hz)	6 G		
Ingress Protection	IP67		
Mechanical life	500,000 cycles		
AUXILIARY CONTACTS	MEASURE		
Contact Arrangement	Not available		
COIL (20° C)	MEASURE		
Nominal Voltage	12 VDC 24 VDC		
Pick-up Voltage (Max)	9 VDC 18 VDC		
Max Voltage	16 VDC 32 VDC		
Drop-out Voltage (Min)	0.9 VDC 1.8 VDC		
Coil Resistance	51.4Ω 206Ω		
Coil Power at Nominal Voltage	2.8W 2.8W		

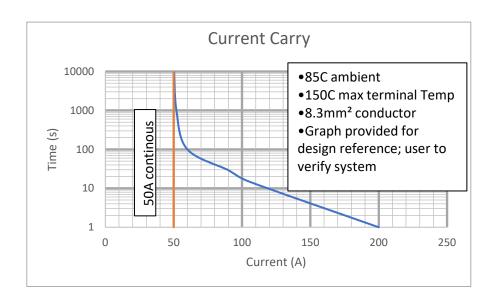


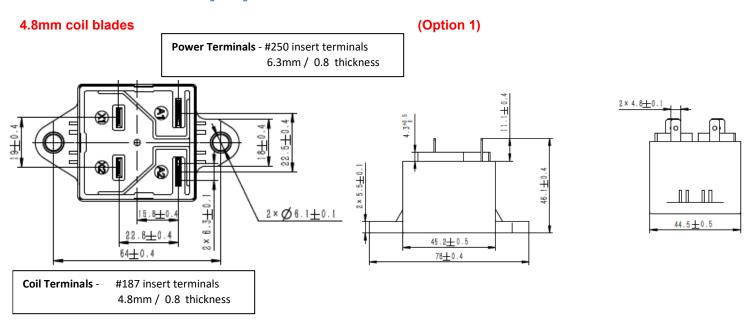
TABLE 2. RESISTIVE LOAD SWITCHING (MAKE / BREAK DATA)					
Polarity Sensitive VOLTAGE CURRENT		CYCLES (1 cycle = 1 make + 1 break)			
450V	20A	75,000			
450V	30A	150,000 (MAKE only)			
750V	20A	50,000			
750V	30A	75,000 (MAKE only)			
1000V	20A	30,000)			
1000V	30A	50,000 (MAKE only)			
1500V	40A	15,000 (MAKE only)			



OPTIONS

TABLE 3. PRODUCT NOMENCLATURE					
	CONTACT POLARITY	MOUNTING	COIL	AUXILIARY CONTACTS	
RXR03	B Bi-Directional	1 4.8mm coil blades	A 12V	V None	
		3 6.3mm coil blades	B 24V	X None	

PRODUCT DIMENSIONS [mm]



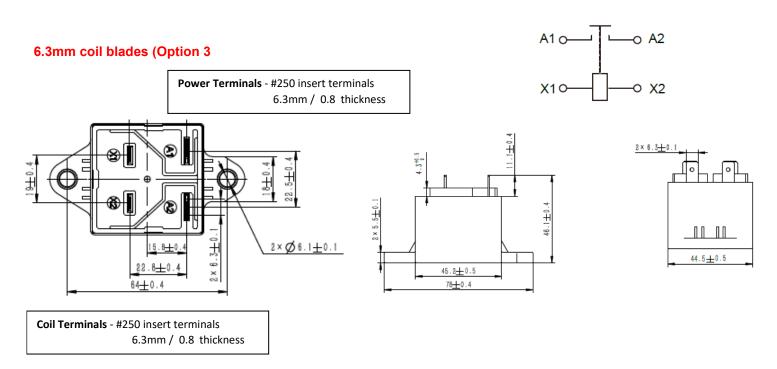




TABLE 4. DIMENSIONAL AND INSTALLATION				
CHARACTERISTIC	MEASURE			
Weight	140g			
Mounting Position	Any / Not Position Sensitive			
Package Quantity	40 (bottom and PCB-mount)			
(PCB) welding Parameters	Manual welding: $(350\pm20^{\circ}\text{C})$, time 3s; Wave soldering: $(265\pm5^{\circ}\text{C})$, time $(3\sim8)\text{s}$.			

NOTES

- Continuous current tested with 85°C temperature rise at the power terminals. Terminal temperature should be limited to 150°C
- Contactor is operated by a coil that changes resistance with temperature: Maximum coil voltage will be lower than indicated at temperatures above 25°C, and higher than indicated at temperatures below 25°C.
- Nominal Coil Voltage for Pick-up Current, Coil Current and Coil Power specifications, Current/Wattage will be lower than indicated at temperatures above 25°C and higher than indicated at temperatures below 25°C.
- Pick-up Voltage and Drop Out Voltage will be lower than indicated at temperatures below 25°C and higher than indicated at temperatures above 25°C.
- Contactor may be used above Max Switching Voltage if the application does not require significant load breaking.
 Please contact Rincon Power to discuss in more detail.

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