

# RXR25 SERIES

High Voltage Contactors



**250A** CONTINUOUS DUTY

**750V** SYSTEM VOLTAGE

## FEATURES

SPST Normally Open High Voltage Contactors

- Metal-ceramic hermetic seal
- High Temperature Performance
- Low contact resistance over life
- Meets RoHS 2011/65/EU



**PERFORMANCE**

TABLE 1. SPECIFICATIONS	
CHARACTERISTIC	MEASURE
Contact Arrangement	Form X, SPST NO
Max Switching Voltage <sup>1</sup>	750 VDC
Dielectric Withstand Voltage	2,500 VAC, 1 minute contacts to coil 3,000 VDC, 1 minute across open contacts
Continuous Current (60mm <sup>2</sup> conductor)	250A
Overload Current	20 seconds 1,000A 2 minutes 500A
Fault Interrupt (450V, 1 cycle)	2,000A
Max Short Circuit Current -5 ms	8,000 A
Min Insulation Resistance	1,000 Mohm @ 1,000VDC
Contact Voltage Drop (Max)	5mV @ 50A
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
Ingress Protection	Exceeds IP69, (Hermetically sealed)
Mechanical life	200,000 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
Drop-out Voltage (Min)	0.5VDC   1 VDC
Coil Resistance +/- 10%	24Ω   96Ω
Coil Power at Nominal Voltage	5.2W   5.2W

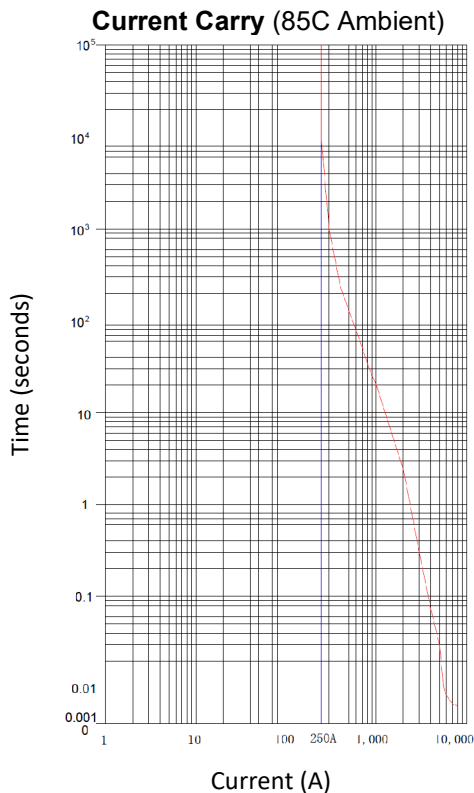


TABLE 2. RESISTIVE LOAD SWITCHING (MAKE / BREAK DATA)		
BI-DIRECTIONAL VOLTAGE	SWITCHING CURRENT	CYCLES (1 cycle = 1 make + 1 break)
24V	140A	75,000
450V	250A	1,000 (BREAK only)

<sup>1</sup> Contactor can be used in systems with higher voltages, but should be limited to no current, or very low current breaking. Contact Rincon Power for more details

OPTIONS

TABLE 3. PRODUCT NOMENCLATURE				
	CONTACT POLARITY	MOUNTING	COIL	AUXILIARY CONTACTS
RXR25	<b>B</b> Bi-directional	<b>1</b> Bottom Mount	<b>A</b> 12V <b>B</b> 24V	<b>X</b> None

PRODUCT DIMENSIONS [mm]

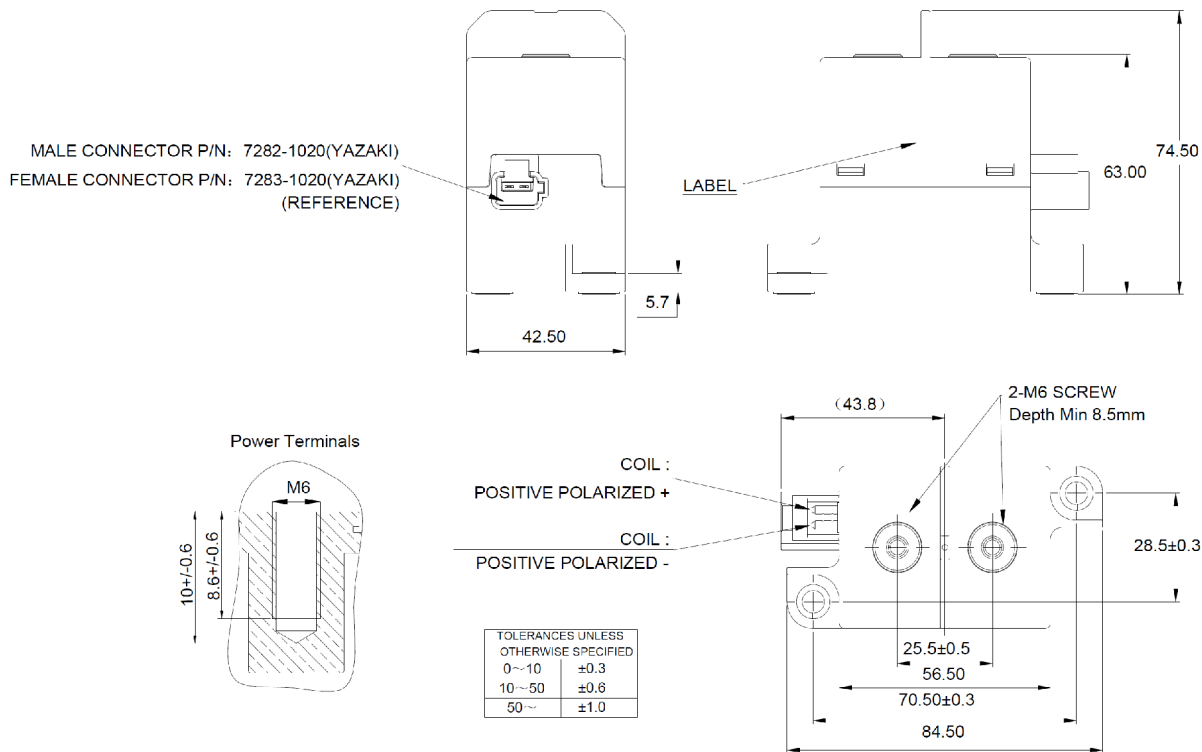


TABLE 4. DIMENSIONAL AND INSTALLATION	
CHARACTERISTIC	MEASURE
Weight	400g (0.88 lb)
Mounting Position	Any / Not Position Sensitive
Package Quantity	TBD
Install Torque M4 Main Terminals	6-8Nm (53-70 in-lb)

NOTES

- Attached cables and busbars directly to the main terminal pad using the recommended install torque. Do not use washers or other materials between the contactor and the conductor. This will ensure the lowest possible contact resistance
- Avoid excessive coil voltages. Exceeding the ratings on the datasheet may result in high coil temperature and coil failure
- Contactors 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