

RXR06 SERIES

High Voltage Contactors

60A CONTINUOUS
DUTY

750VDC SYSTEM
VOLTAGE



DESCRIPTION

The RXR06 Series are compact ceramic-sealed high voltage DC contactors designed for reliable mid-power DC switching in space-constrained systems. Rated for continuous currents up to 60A and system voltages up to 750VDC, the RXR06 Series provides robust bi-directional switching performance for applications including pre-charge circuits, auxiliary power control, and precision DC switching functions.

The ceramic seal offers enhanced environmental resistance and long-term stability compared to epoxy-sealed alternatives, while the rectangular form factor enables efficient integration into modern power electronics and control systems. The RXR06 Series is well suited for battery management systems, energy storage platforms, industrial DC control, and other applications requiring dependable compact DC contactors.

FEATURES

SPST Normally Open High Voltage DC Contactor

- Ceramic-sealed DC contactor construction for enhanced durability
- Compact rectangular form factor
- Bi-directional DC power switching
- SPST Normally Open contact arrangement
- Designed for continuous 60A duty at up to 750VDC
- Fast operate and release times suitable for control and switching circuits
- Meets RoHS 2011/65/EU and REACH compliance

TYPICAL APPLICATIONS

- Pre-charge circuits and capacitor control
- Auxiliary DC power switching
- Battery management and DC distribution systems
- Energy storage system (ESS) control circuits
- Industrial electrification and automation
- Renewable energy power control
- Space-constrained DC switching applications

For factory-direct technical support and application assistance:

Call +1 805 456 6424

Email info@rinconpower.com

Visit <https://www.rinconpower.com/contact-us>

PERFORMANCE

TABLE 1. SPECIFICATIONS

CHARACTERISTIC	MEASURE
Contact Arrangement	Form X, SPST NO
Max Switching Voltage ¹	750 VDC
Dielectric Withstand Voltage	3,000 VAC, 1 minute contacts to coil 4,000 VDC, 1 minute across open contacts
Continuous Current (15mm ² conductor) ²	60A
Overload Current	240A
30 seconds	90A
1 hour	3,000 cycles
Make and Break – 60A @ 750V	600 A
Max Short Circuit Current -0.5 second	1,000 Mohm @ 1,000VDC
Min Insulation Resistance	125mV @ 60A
Contact Voltage Drop (Max)	30ms
Operate Time (Max, incl bounce)	10ms
Release Time (Max)	20G
Shock - Functional, 1/2 Sine, 11ms	50G
Shock – Destructive, 1/2 Sine, 11ms	-40°C to 85°C
Operating Temperature	Exceeds IP69, (Hermetically sealed)
Ingress Protection	200,000 cycles
Mechanical life	
AUXILIARY CONTACTS	MEASURE
Contact Arrangement	Not available
COIL (20° C)	MEASURE
Nominal Voltage	12 VDC 24 VDC
Max Operating Voltage ³	16 VDC 32VDC
Pick-up Voltage (Max)	9 VDC 18 VDC
Drop-out Voltage (Min)	1 VDC 2 VDC
Holding Current (Max)	0.44A 0.22A
Coil Power at Nominal Voltage	5.2W 5.2W

Current Carry (85°C Ambient)

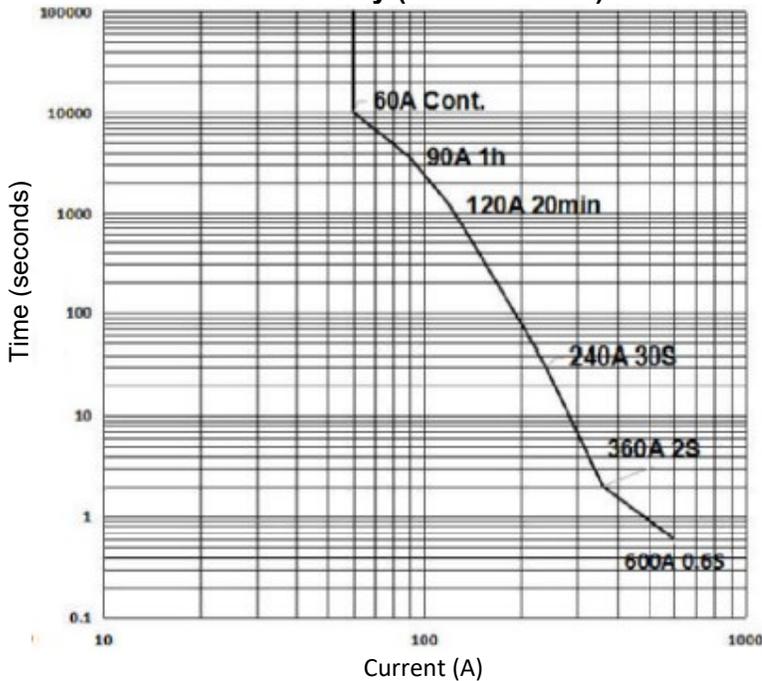


TABLE 2. RESISTIVE LOAD SWITCHING (MAKE / BREAK DATA)

BI-DIRECTIONAL VERSION		CYCLES 1 cycle = 1 make + 1 break
VOLTAGE	CURRENT	
750V	60A	3,000
750V	10A	50,000
450V	60A	100,000 (MAKE ONLY)

OPTIONS

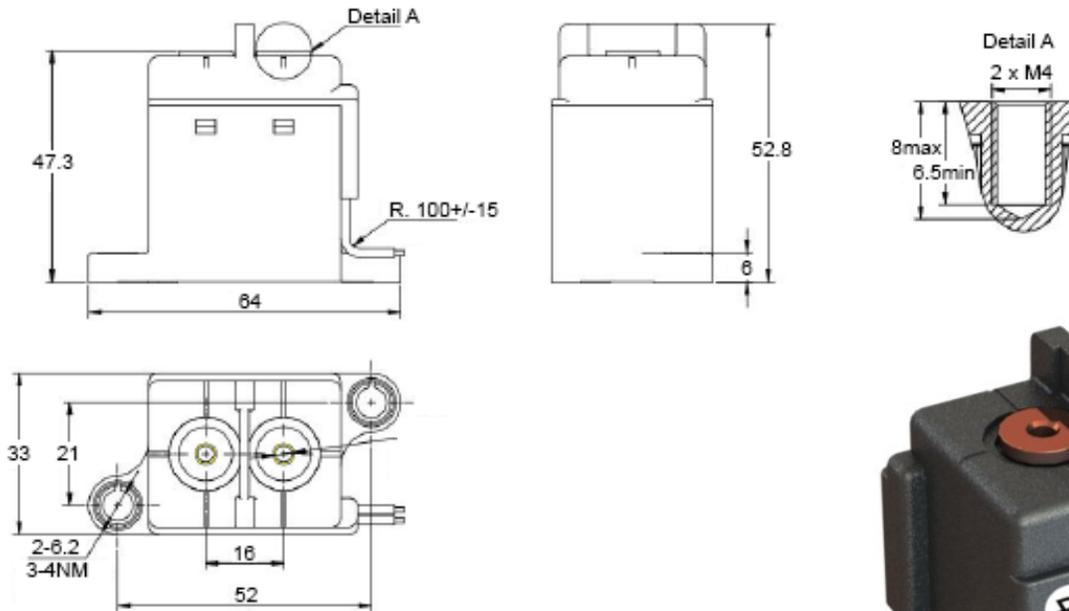
TABLE 3. PART NUMBER CONFIGURATION

SERIES	CONTACT POLARITY	MOUNTING	COIL	AUXILIARY CONTACTS
RXR06	B Bi-directional	1 Bottom Mount	A 12V	X None
		4 PCB Assembly with studs	B 24V	

Available Part Numbers: RXR06B1AX, RXR06B1BX, RXR06B4AX, RXR06B4BX

PRODUCT DIMENSIONS [mm]

Bottom Mount (RXR06B1)



3D model available upon request



Power Contacts

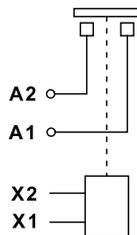
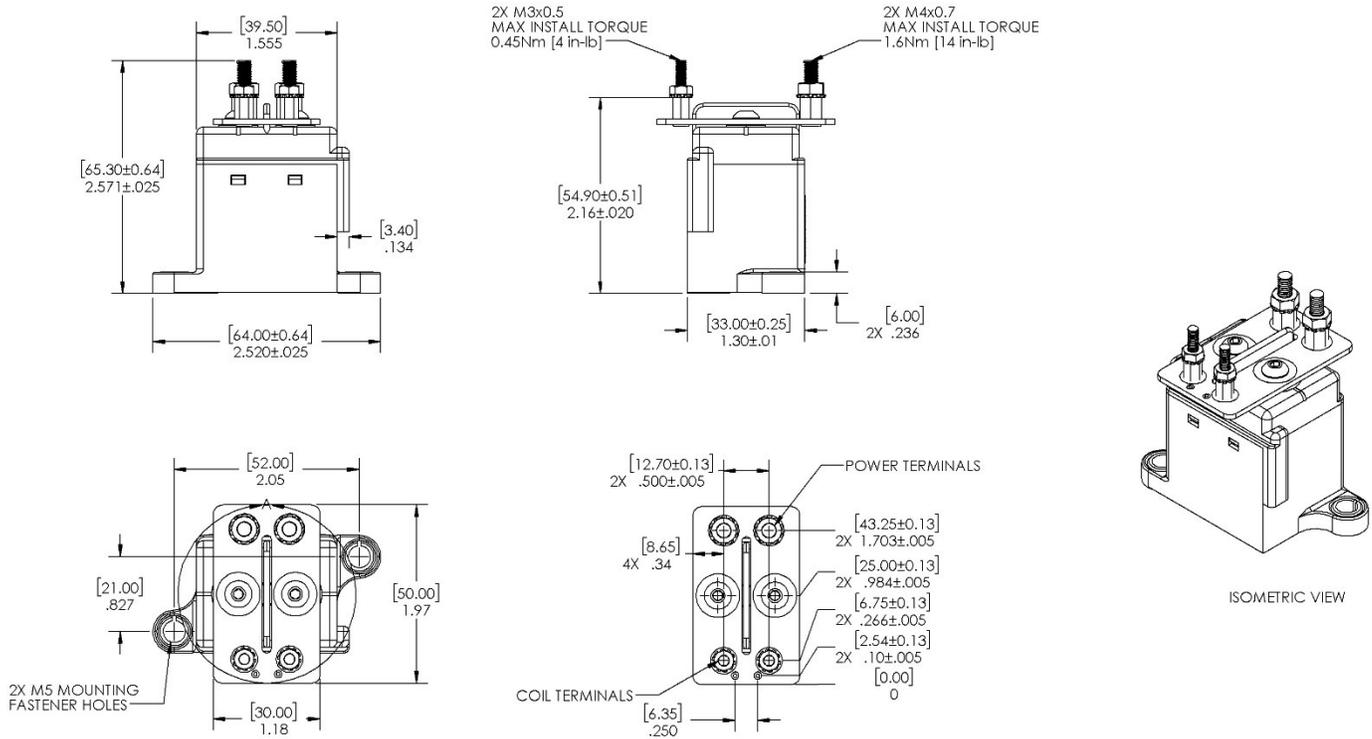


TABLE 4. DIMENSIONAL AND INSTALLATION

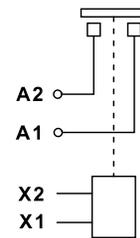
CHARACTERISTIC	MEASURE
Weight	170g (0.38 lb)
Mounting Position	Any / Not Position Sensitive
Package Quantity	30
Coil Termination	Unterminated wire (flying leads), 100mm
Install Torque	3-4Nm (27-35 in-lb)
M4 Main Terminals ²	

PCB Assembly with Studs (RXR06B4)



3D model available upon request

Power Contacts



NOTES

1. 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.
2. 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.
3. Avoid excessive coil voltages. Exceeding the ratings on the datasheet may result in high coil temperature and coil failure.

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<https://tcs.rinconpower.com/product-datasheet-legal-disclaimer.pdf>