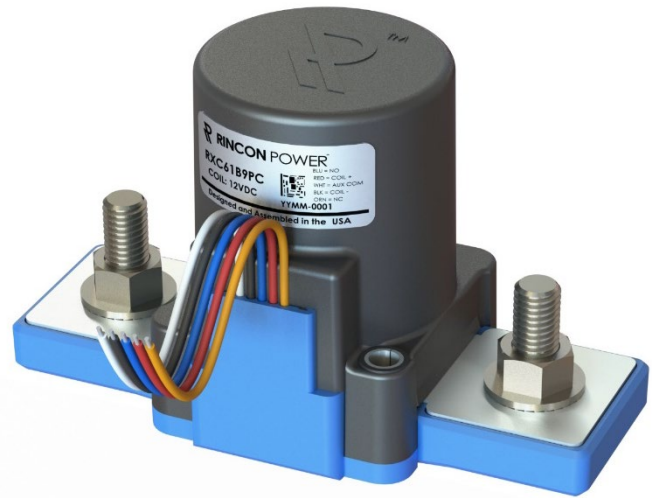


# RXC61B9 SERIES

## High Voltage Contactors

**600A** CONTINUOUS DUTY

**1500VDC** SYSTEM VOLTAGE



### FEATURES

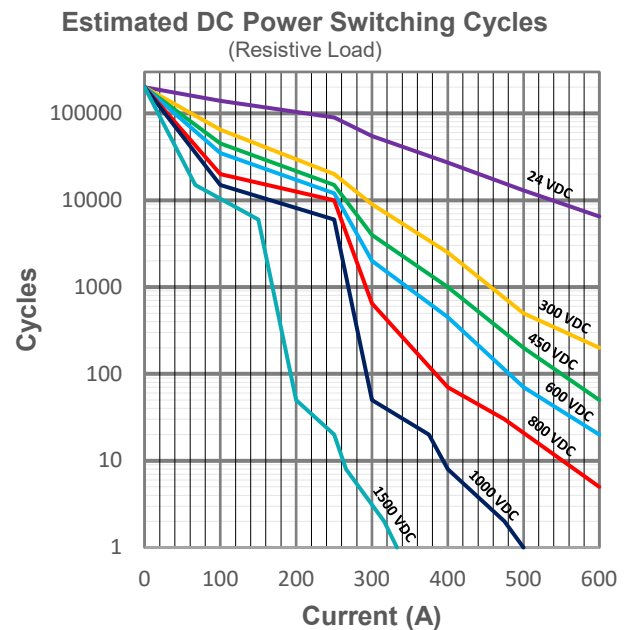
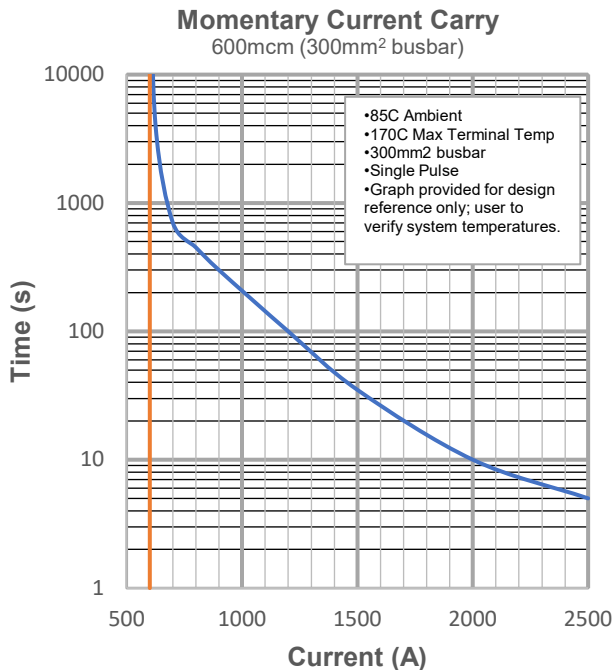
#### SPST Normally Open High Voltage Contactors

- Hermetic Ceramic Seal with gas fill for superior carry and switching performance
- Bi-Directional Power Switching
- Mechanically linked auxiliary contacts for accurate main position feedback
- Integrated coil economizer for optimized power consumption
- Integrated coil suppression with zero back EMF<sup>4</sup>
- Meets RoHS 2011/65/EU
- IEC60947-4-1 compliant
- Patent Pending
- Designed and Assembled in the USA



**PERFORMANCE**

TABLE 1. SPECIFICATIONS		
CHARACTERISTIC	MEASURE	
Contact Arrangement	Form X, SPST- NO	
Max Switching Voltage <sup>2</sup>	1500 Vdc	
Dielectric Withstand Voltage (Leakage <1mA) Between Open Contacts	5400 VRMS (60 sec)	
Dielectric Withstand Voltage (Leakage <1mA) Between Contacts to Coil	5400 VRMS (60 sec)	
Mechanical Life	300,000 cycles	
Continuous Current (300mm <sup>2</sup> conductor)	600A	
Overload Current	See Momentary Current Carry graph	
Withstand Current	4000A, 20ms	
Make and Break	See DC Power Switching graph	
Min Insulation Resistance	100 MΩ @ 1,000V (50 MΩ at end of life)	
Contact Resistance (Max) measured at 600A	0.15mΩ	
Operate Time (Max, incl bounce)	25ms	
Release Time (Max)	10ms	
Shock - Functional, 1/2 Sine, 11ms	20 G Peak	
Shock - Destructive, 1/2 Sine, 11ms	50 G Peak	
Vibration, Sinusoidal (500-2000 Hz Peak)	15G	
Operating Temperature	-40°C to 85°C (170° max terminal temperature)	
Sealed Contacts	Exceeds IP69K (hermetically sealed)	
Salt Fog	MIL-STD-810	
AUXILIARY CONTACTS	MEASURE	
Contact Arrangement	SPDT (Normally Open + Normally Closed)	
Continuous Current	3A / 24 VDC	
Minimum Current	10mA @ 5V	
ECONOMIZED DUAL COIL (20°C)		
Nominal Voltage	12V	24V
Max Voltage	16V	32V
Pick-up Voltage <sup>3</sup>	≥9V	≥18V
Drop-out Voltage	≤5V	≤10V
Inrush Current, Max (80 ms)	3.8A	1.9A
Coil Current	0.65A	0.33A
Coil Power	7.8 W	7.8W

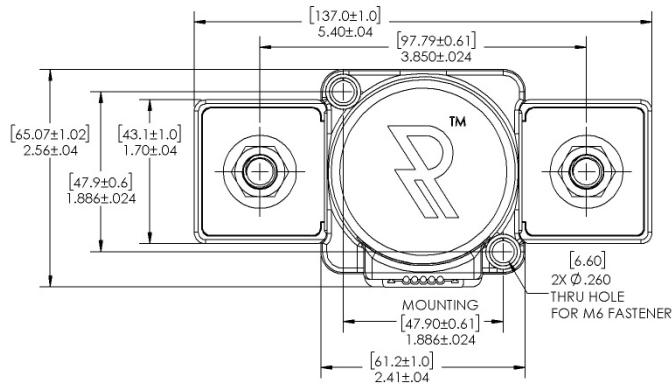


**OPTIONS**

**TABLE 3. PRODUCT NOMENCLATURE**

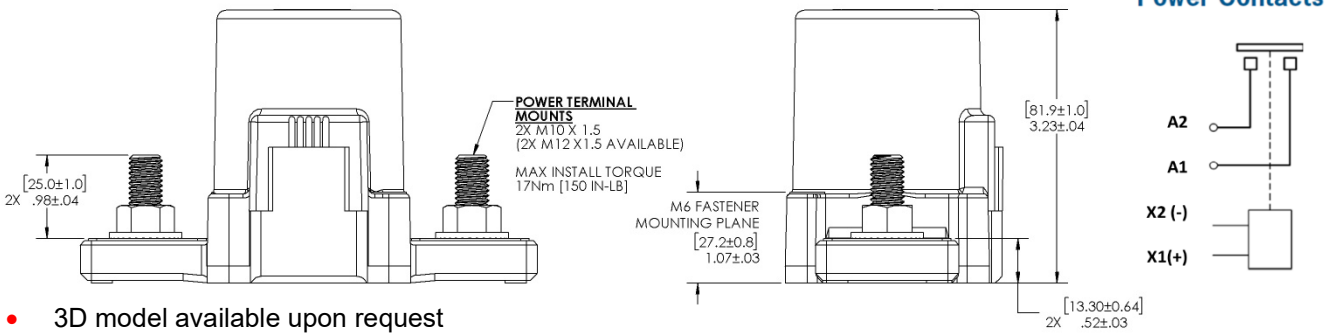
	CONTACT POLARITY	MOUNTING	COIL	AUXILIARY CONTACTS
RXC61	B Bi-directional	8 Chassis Mount, M12 Studs	P 12V dual (economized)	C SPDT, NO+NC
		9 Chassis Mount, M10 Studs (STANDARD)	Q 24V dual (economized) R 48V dual (economized)	X None

**PRODUCT DIMENSIONS [mm]**



**TABLE 4. DIMENSIONAL AND INSTALLATION**

CHARACTERISTIC	MEASURE
Weight	1.8 lb, [830g]
Mounting Position	Any / Not Position Sensitive
Package Quantity	12 pcs
Install Torque, 2X M10 Main Terminals	125-150 in-lb, [14-17Nm]
Mounting Install Torque, 2X M6 Thru Hole	23-40 in-lb, [3-5Nm]
COIL / AUX WIRE	FUNCTION
Black	Coil GND (-)
Red	Coil POS (+)
White	Aux COM
Blue	Aux N.O.
Orange	Aux N.C.
Lead Wire Length	19 in +/- 1 in, [48 cm +/-2.5 cm]
Lead Wire Size	20AWG, Stranded
Jacket Material	PVC
UL Ratings	UL 1007, UL 1569



• 3D model available upon request

**NOTES**

1. Attach cables and busbars directly to the main terminal pad using the recommended install torque. Do not use washers or other materials between the contactor power terminals and the conductor.
2. Contactor may be used above Max Switching Voltage if the application does not require significant load breaking. Please contact Rincon Power for more details.
3. Dual coil economizer design: Pickup Voltage must be applied as a pulse. Do not ramp voltage.
4. Integrated coil suppression limits back EMF to 0V. External diodes or suppressors do not affect operation.
5. Rigid busbar structures have the potential to induce stress into the device and can damage the hermetic seal. When using busbars, it is important to design compliance into the bus bar structure via the use of flexible laminated busbars and or by means of incorporating adjustability in adjacent bolted interfaces.

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