

RXC60B1 SERIES

High Voltage Contactors

600A CONTINUOUS DUTY

1000Vdc 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 EMF⁴

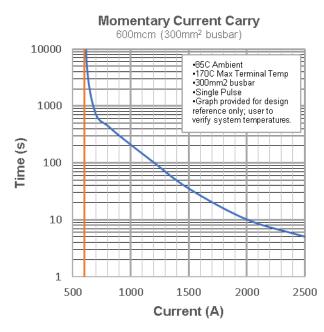
- Meets RoHS 2011/65/EU
- IEC60947-4-1 compliant

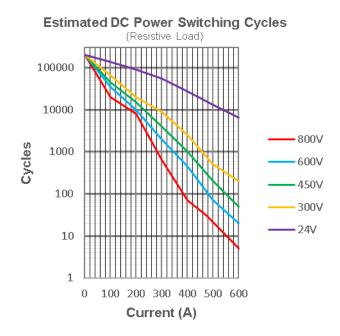




PERFORMANCE

TABLE 1. SPECIFICATIONS				
CHARACTERISTIC	MEASURE			
Contact Arrangement				
Max Switching Voltage ²	1000 Vdc			
Dielectric Withstand Voltage (Leakage <1mA) Between Open Contacts	2200 VRMS (60 sec)	2200 VRMS (60 sec)		
Between Contacts and Coil 2200 VRMS (60 sec)				
Mechanical Life	300,000 cycles	,		
Continuous Current (300mm² conductor) ⁵	600A			
Overload Current	See Momentary Current C	See Momentary Current Carry graph		
Make and Break	See DC Power Switching	See DC Power Switching graph		
Min Insulation Resistance	100 MΩ @ 1,000V (50 MΩ	100 MΩ @ 1,000V (50 MΩ at end of life)		
Contact Resistance (Max) measured at 200A	$0.3 \mathrm{m}\Omega$	0.3mΩ		
(Typical) measured at 200A	0.115mΩ	0.1-15mO		
Operate Time (Max, incl bounce)	25ms			
Release Time (Max)	10ms			
Shock - Functional, 1/2 Sine, 11ms	20 G Peak	20 G Peak		
Shock - Destructive, 1/2 Sine, 11ms	50 G Peak	50 G Peak		
Vibration, Sinusoidal (500-2000 Hz Peak)	15G	15G		
Operating Temperature	-40°C to 85°C (170° max t	-40°C to 85°C (170° max terminal temperature)		
Sealed Contacts	Exceeds IP69K (hermetical	Exceeds IP69K (hermetically sealed)		
Salt Fog	MIL-STD-810	MIL-STD-810		
AUXILIARY CONTACTS	MEASURE	MEASURE		
Contact Arrangement	SPDT (Normally Open + N	SPDT (Normally Open + Normally Closed)		
Continuous Current	3A / 24 VDC	3A / 24 VDC		
Minimum Current	10mA @ 5V			
ECONOMIZED DUAL COIL (20°C)	MEAS	MEASURE		
Nominal Voltage	12V	24V		
Max Voltage	16V	32V		
Pick-up Voltage ³	≥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
RXC60	B Bi-directional 1 B	4 D # M +	P 12V dual (economized)	C SPDT, NO+NC
		1 Bottom Mount	Q 24V dual (economized)	X None

PRODUCT DIMENSIONS [mm]

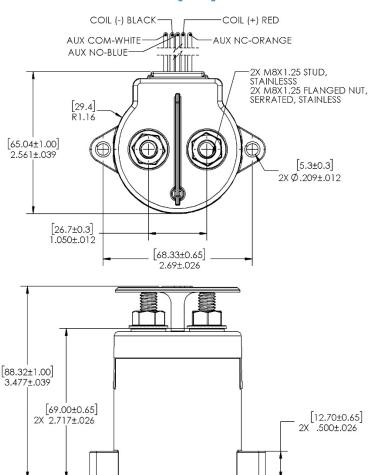
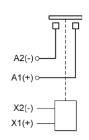


TABLE 4. DIMENSIONA	
CHARACTERISTIC	MEASURE
Weight	1.36 lb, [620g ±10g]
Mounting Position	Any / Not Position Sensitive
Package Quantity	20 pcs
Install Torque, 2X M8 Main Terminals	80-88 in-lb, [9-10Nm]
Mounting Install Torque, 2X M5 or No. 10 Thru Hole	18-35 in-lb, [2-4Nm]
COIL / AUX WIRE	FUNCTION
Black	Coil GND (-)
Red	Coil POS (+)
White	Aux COM
Blue	AUX N.O.
Orange	AUX N.C.
Lead Wire Length	15 in [38 cm]
Lead Wire Size	20AWG, Stranded
Jacket Material	PVC
UL Ratings	UL 1007, UL 1569

Power Contacts



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.
- 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.