

RXX50 SERIES

High Voltage Contactors

PRELIMINARY



500A CONTINUOUS DUTY
1000Vdc SYSTEM VOLTAGE

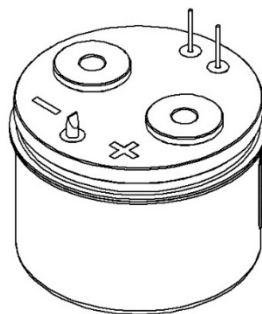
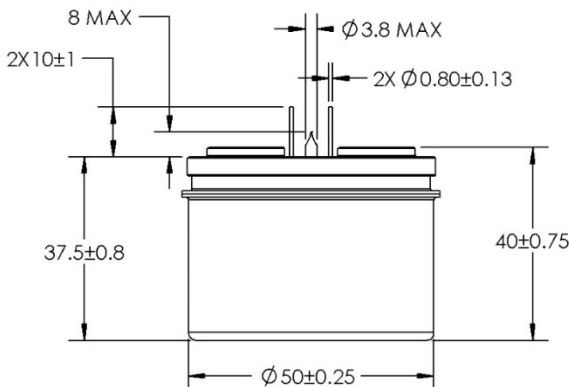
FEATURES

SPST Normally Open High Voltage Contactors

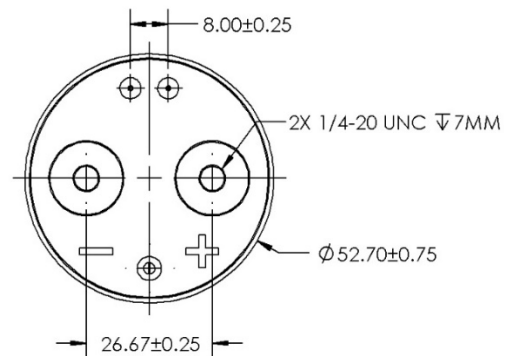
- *Hermetic Ceramic Seal* with gas fill for superior carry and switching performance
- World's Smallest and Lightest Contactor with a 3MWatt Interrupt Rating (1,000V/3,000A).
- *Ultra-Low* Contact Resistance
- Patent Pending *Fast Break* Arc Technology
- Meets RoHS 2011/65/EU
- Efficient PWM coil (external)

TABLE 1. DIMENSIONAL AND INSTALLATION

CHARACTERISTIC	MEASURE
Weight	0.66 lb, [300g ±10g]
Mounting Position	Any / Not Position Sensitive
Package Quantity	20 pcs
Install Torque, 2X M8 Main Terminals	80-88 in-lb, [9-10Nm]



TRIMETRIC VIEW

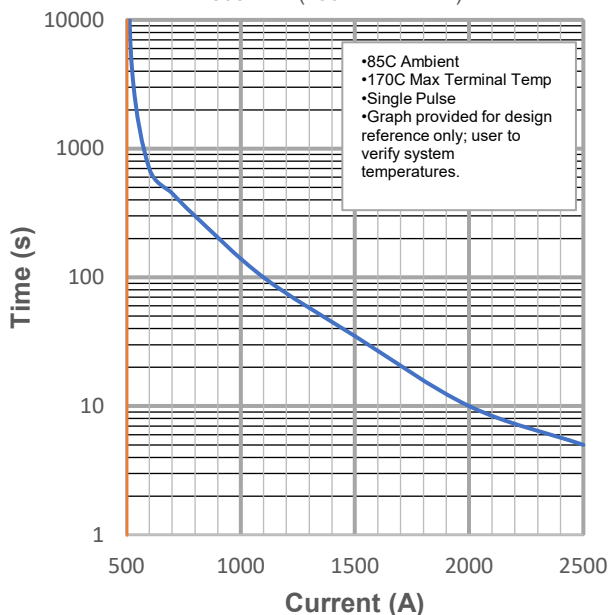


PERFORMANCE

TABLE 2. SPECIFICATIONS

CHARACTERISTIC	MEASURE
Contact Arrangement	Form X, SPST- NO
Max Switching Voltage ²	1000 Vdc
Dielectric Withstand Voltage (Leakage <1mA)	Between Open Contacts
	Between Contacts and Coil
	2200 VRMS (60 sec)
	2200 VRMS (60 sec)
Mechanical Life	500,000 cycles
Continuous Current (150mm ² conductor) ⁵	500A
Overload Current	See Momentary Current Carry graph
Make and Break	See DC Power Switching graph
Fault Interrupt	3,000A at 1,000V
Min Insulation Resistance	100 MΩ @ 1,000V (50 MΩ at end of life)
Contact Resistance (Max) measured at 200A	0.12mΩ
(Typical) measured at 200A	0.7-.1mΩ
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 (175° max terminal temperature)
Sealed Contacts	Exceeds IP69K (hermetically sealed)
Salt Fog	MIL-STD-810
PWM ECONOMIZED COIL (20°C)	MEASURE
Nominal Voltage	12V
Max Voltage	16V
Pick-up Voltage ³	≥9.5V
Drop-out Voltage	≤5V
Inrush Current, Max (80 ms)	4.0A
Coil Current	1.1A
Coil Power, HOLD (5v)	5.5 W
Coil Resistance	3.5-4.0 Ω

Momentary Current Carry
300mcm (150mm² busbar)



Estimated DC Power Switching Cycles
(Resistive Load)

