

RXC20 SERIES

High Voltage Contactors

200A CONTINUOUS DUTY

1000V SYSTEM VOLTAGE



FEATURES

SPST Normally Open High Voltage Contactors

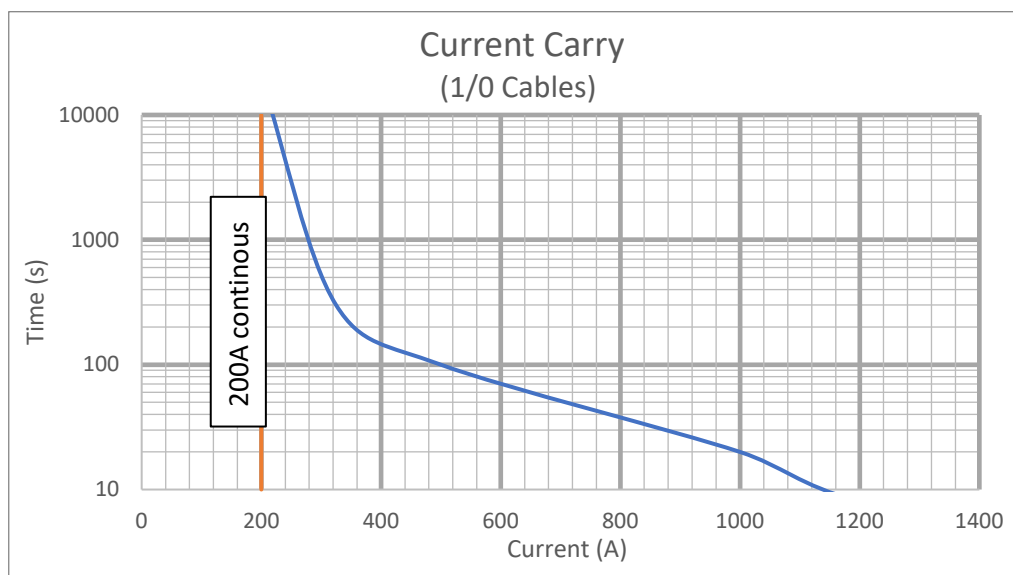
- Hermetic ceramic seal with gas fill
- Meets RoHS 2011/65/EU
- High temperature performance
- CE certified



PERFORMANCE

TABLE 1. SPECIFICATIONS

CHARACTERISTIC	MEASURE
Contact Arrangement	Form X, SPST NO
Max Switching Voltage	1000 VDC
Dielectric Withstand Voltage Contacts to Coil	3000 VAC, 1 minute
Dielectric Withstand Voltage Across Open Contacts	4000 VDC, 1 minute
Continuous Current (53mm ² conductor)	200A
Overload Current	900A
30 seconds	400A
3 Minutes	
Make and Break	See table
Max Short Circuit Current -1 second	1500 A
Min Insulation Resistance	1000 MOhm @ 1,000V
Contact Resistance (typical)	0.15 mOhm
Operate Time (Max, incl bounce)	25ms
Release Time (Max)	10ms
Shock - Functional, 1/2 Sine, 11ms	20G
Shock – Destructive, 1/2 Sine, 11ms	50G
Operating Temperature	-40°C to 100°C (180°C max terminal temperature)
Ingress Protection	Exceeds IP69, (Hermetically sealed)
Mechanical life	300,000
COIL @ 20°C	MEASURE
Nominal Voltage	12V 24V 48V
Pick-up Voltage (Max)	8.5 VDC 17.0 VDC 38.4 VDC
Drop-out Voltage (Min)	0.6 VDC 0.9 VDC 3.3 VDC
Holding Current	0.46A 0.25A 0.12A
Coil Resistance +/- 5%	26Ω 100Ω 392Ω
Coil Power	5.5W 5.8W 6W



- 85C ambient
- 150C max terminal Temp
- 1/0 Cables

- Single pulse
- Graph provided for design reference; user to verify system temperatures

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

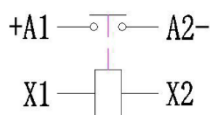
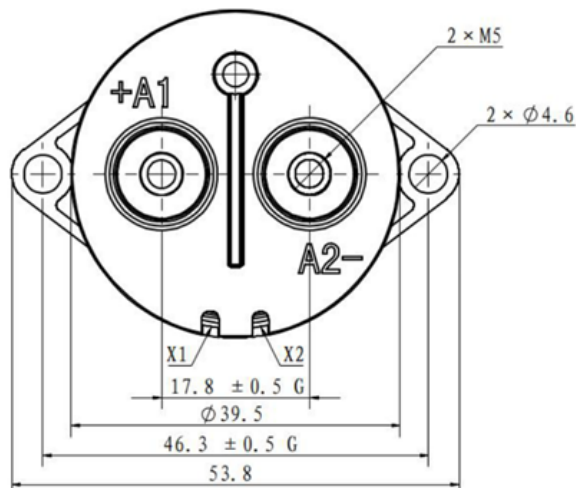
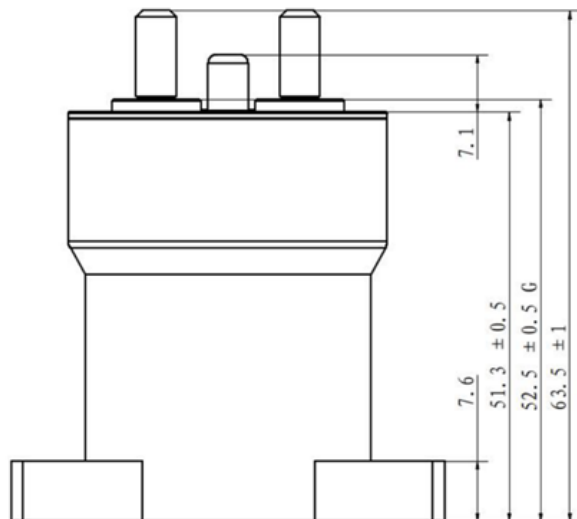
POLARITY SENSITIVE VERSION		CYCLES (1 cycle = 1 make + 1 break)
VOLTAGE	CURRENT	
750V	20A	20,000
750V	100A	1,000
750V	300A	2
900V	100A	100
450V	100A	7,500

OPTIONS

TABLE 3. PRODUCT NOMENCLATURE

		MOUNTING	COIL	AUXILIARY CONTACTS
RXC20	P Polarity Sensitive	1 Bottom Mount	A 12V single coil	X None
			B 24V single coil	
			C 48V single coil	

PRODUCT DIMENSIONS [mm]


TABLE 4. DIMENSIONAL AND INSTALLATION

CHARACTERISTIC	MEASURE
Weight	185g (0.41 lb)
Mounting Position	Any / Not Position Sensitive
Package Quantity	30
Install Torque M5 Main Terminals	3-4Nm (26-36 in-lb)
Mounting Torque, M4 hardware	2.3Nm
Power Terminal Pad Material	Copper
Housing Material	Zytel FR50

NOTES

- Polarity Sensitive versions are marked +A1 and -A2 for the power terminals. For applications that require the contactor under load, please ensure current is flowing from the +A1 to the -A2 terminal when breaking/opening under load. For Bi-Directional versions the direction of current does not matter when breaking under load.
- 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.
- 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.

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