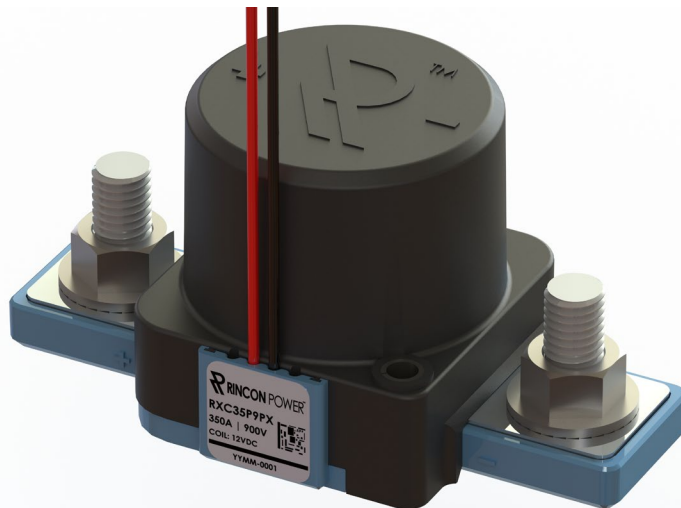


# RXC35 SERIES

High Voltage Contactors

**350A+** CONTINUOUS DUTY

**900V** SYSTEM VOLTAGE



## FEATURES

### SPST Normally Open High Voltage Contactors

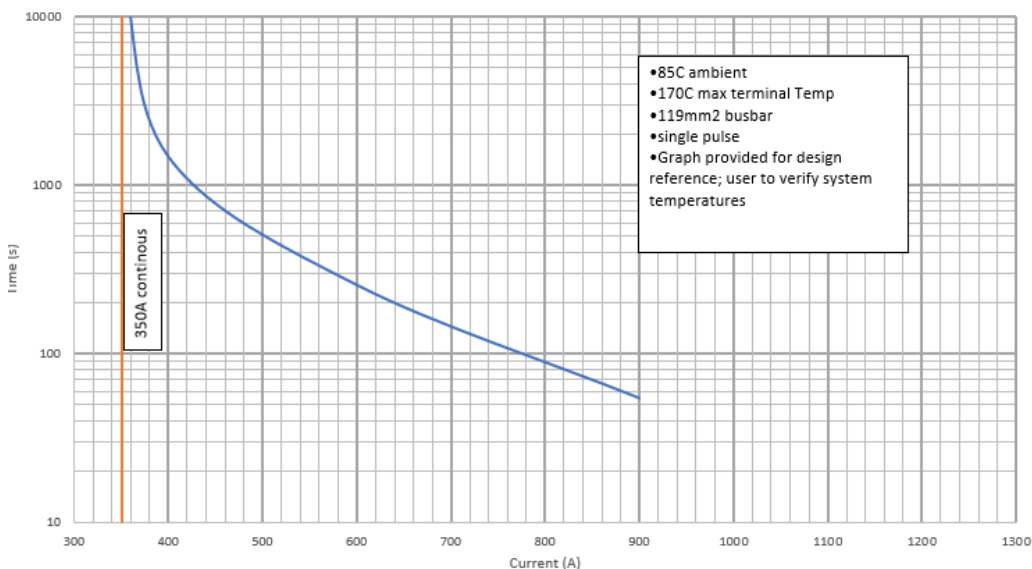
- Hermetic seal with gas fill
- Optional auxiliary contacts – for main position feedback
- High temperature performance
- Meets RoHS 2011/65/EU
- Designed and Assembled in US



## PERFORMANCE

**TABLE 1. SPECIFICATIONS**

CHARACTERISTIC	MEASURE	
Contact Arrangement	Form X, SPST NO	
Max Switching Voltage	900 VDC	
Dielectric Withstand Voltage Contacts to Coil	2,500 VAC, 1 minute	
Dielectric Withstand Voltage Across Open Contacts	4,000 VDC, 1 minute	
Continuous Current (107mm <sup>2</sup> conductor)	350A	
Overload Current	1 minute	850A
	10 minutes	450A
Make and Break	See table	
Max Short Circuit Current - 20ms	3,500 A	
Min Insulation Resistance	1,000 Mohm @ 1,000V	
Contact Voltage Drop (Max)	80mV @ 100A	
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	-45°C to 100°C (175°C max terminal temperature)	
Ingress Protection	Exceeds IP69, (Hermetically sealed)	
Mechanical life	300,000	
AUXILIARY CONTACTS	MEASURE	
Contact Arrangement	SPST	
Continuous Current	2A	
Minimum Current	5mA @ 8V	
COIL @ 20°C	MEASURE	
Nominal Voltage	12V	24V
Max Voltage	16 VDC	32 VDC
Pick-up Voltage (Max)	7.5 VDC	15.0 VDC
Drop-out Voltage (Min)	0.6 VDC	1.2 VDC
Pull-in current (max 300ms)	4.3A	1.6A
Holding Current	0.24A	0.09A
Coil Power (pull-in)	46W	38W
Coil Power (Holding)	2.9W	2.2W

**RXC35 4-0BB Current Carry  
(119mm<sup>2</sup> busbar)**

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

POLARITY SENSITIVE VERSION		CYCLES (1 cycle = 1 make + 1 break)
VOLTAGE	CURRENT	
450V	350A	400
750V	350A	200
750V	400A	50
320V	-300A	12
750V	50A	20,000
450V	100A	50,000

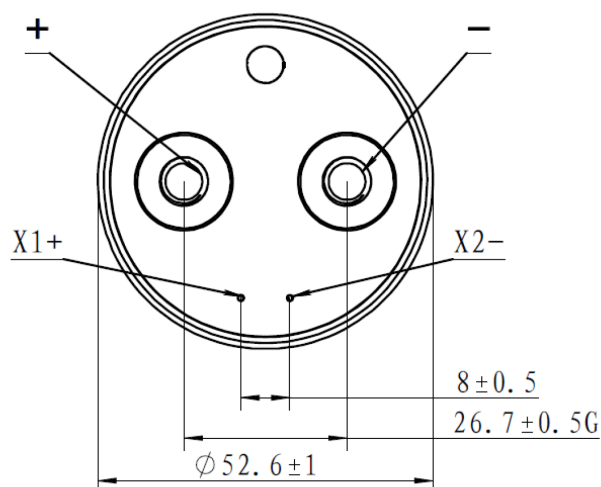
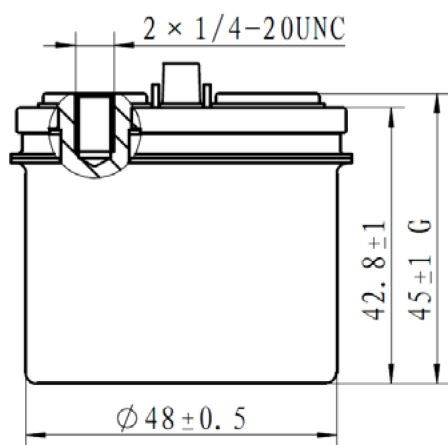
## OPTIONS

**TABLE 3. PRODUCT NOMENCLATURE**

		MOUNTING	COIL	AUXILIARY CONTACTS
RXC35	P Polarity Sensitive	3 PCB Mount	P 12V dual coil (economized)	X None
		9 Chassis Mount	Q 24V dual coil (economized)	A Normally Open

## PRODUCT DIMENSIONS [mm]

### Mounting Option 3 – PCB Mount


**TABLE 4. DIMENSIONAL AND INSTALLATION PCB Mount**

CHARACTERISTIC	MEASURE
Weight	290g (0.64 lb)
Coil Wire	N/A
Mounting Inserts	N/A
Mounting Position	Any / Not Position Sensitive
Package Quantity	TBD
Install Torque	7 Nm; 1/4" – 20
Main Terminals	7mm thread engagement

## Mounting Option 9 – Chassis Mount

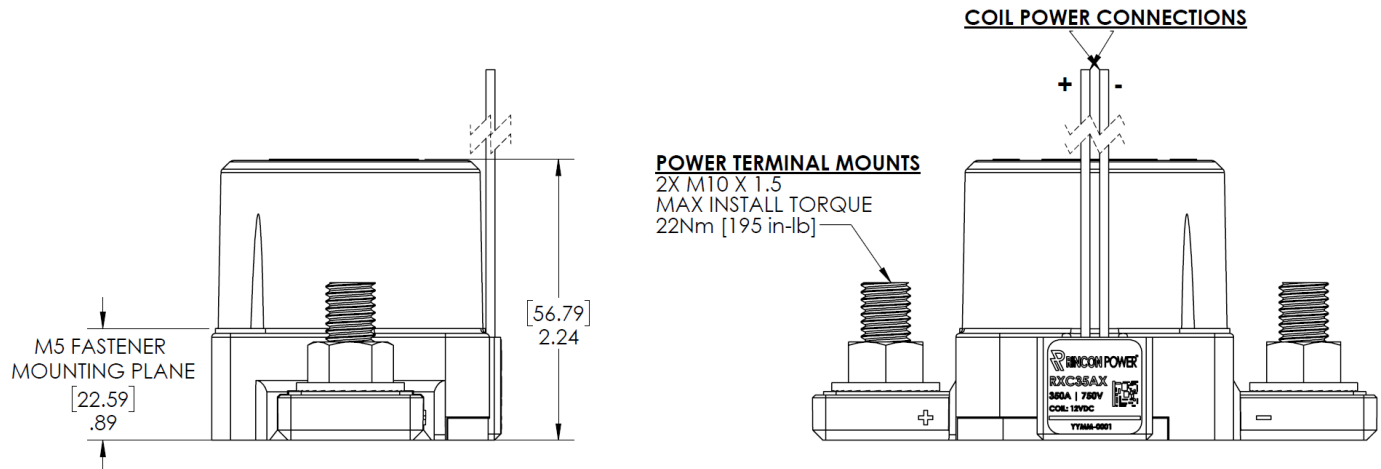
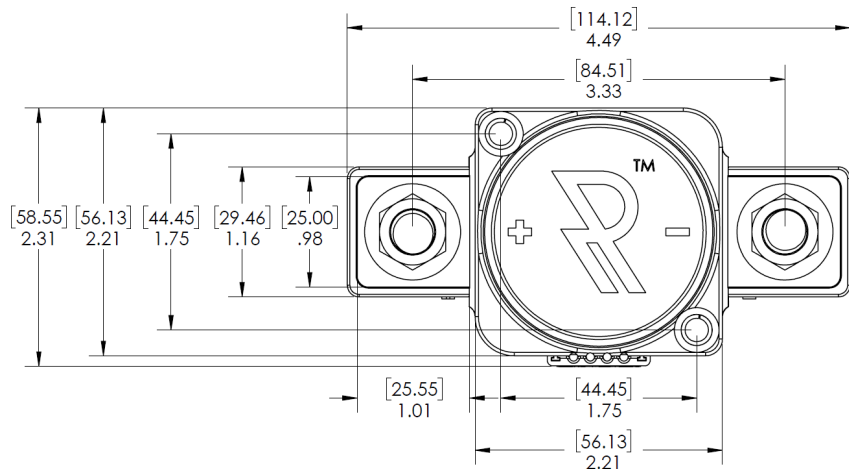


TABLE 4. DIMENSIONAL AND INSTALLATION	
CHARACTERISTIC	MEASURE
Weight	490g (1.1 lb)
Coil Wire	20 AWG, 38cm
Mounting Inserts	M5
Mounting Position	Any / Not Position Sensitive
Package Quantity	20 pieces
Install Torque M10 x 1.5	14-20Nm (125-175 in-lb)
Main Terminals	



## NOTES

- Polarity Sensitive versions are marked + and - for the power terminals. For applications that require the contactor under load, please ensure current is flowing from the + to the - 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.