

# REC15 SERIES

## High Voltage Contactors


**150A** CONTINUOUS DUTY

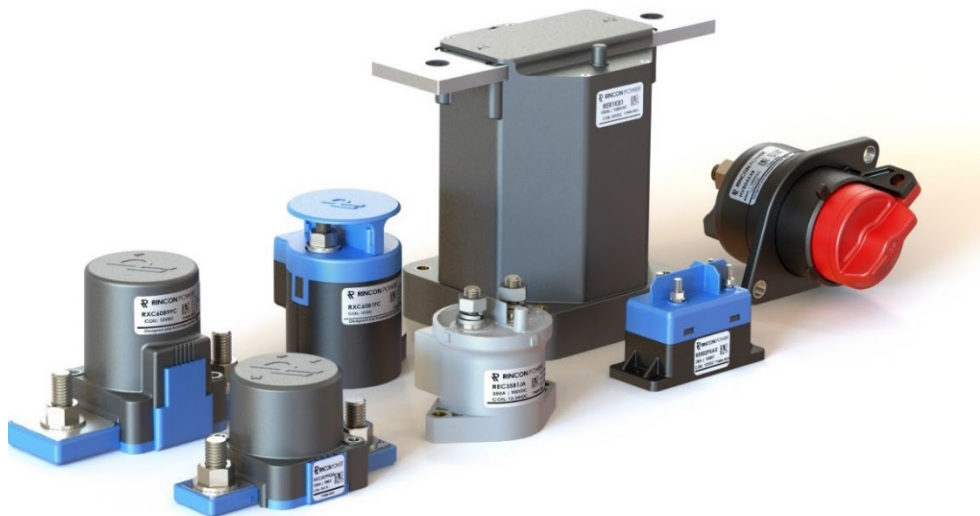
**1000V** SYSTEM VOLTAGE



### FEATURES

#### SPST Normally Open High Voltage Contactors

- Hermetic Seal with gas fill
- Optional Auxiliary Contacts – for main position feedback
- Wide range of options
- Meets RoHS 2011/65/EU
- CE certified
- UL recognized (File E536110)  Please refer to UL file for specific part numbers that are recognized



**PERFORMANCE**

TABLE 1. SPECIFICATIONS				
CHARACTERISTIC		MEASURE		
Contact Arrangement		Form X, SPST NO		
Max Switching Voltage		1,000 VDC		
Dielectric Withstand Voltage Contacts to Coil		4,000 VAC, 1 minute		
Dielectric Withstand Voltage Across Open Contacts		4,000 VDC, 1 minute		
Continuous Current - 35mm <sup>2</sup> conductor 6AWG, 13.3mm <sup>2</sup>		150A 100A		
Overload Current	30 seconds	500A		
	3 Minutes	200A		
Make and Break		See table		
Max Short Circuit Current -1 second		1,250 A		
Min Insulation Resistance		1,000 Mohm @ 1,000V		
Contact Resistance (Max)		0.4mohm @ 100A   (0.25mohm typical)		
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 85°C		
Ingress Protection		Exceeds IP69, (Hermetically sealed)		
Mechanical life		500,000		
AUXILIARY CONTACTS		MEASURE		
Contact Arrangement		SPST		
Continuous Current		2A		
Minimum Current		5mA @ 8V		
COIL @ 20°C		MEASURE		
Nominal Voltage		12V	24V	48V
Pick-up Voltage (Max)		9.6 VDC	19.2 VDC	38.4 VDC
Drop-out Voltage (Min)		0.8 VDC	1.6 VDC	3.3 VDC
Holding Current		0.46A	0.25A	0.12A
Coil Resistance +/- 5%		26Ω	96Ω	392Ω
Coil Power		5.5W	6W	6W

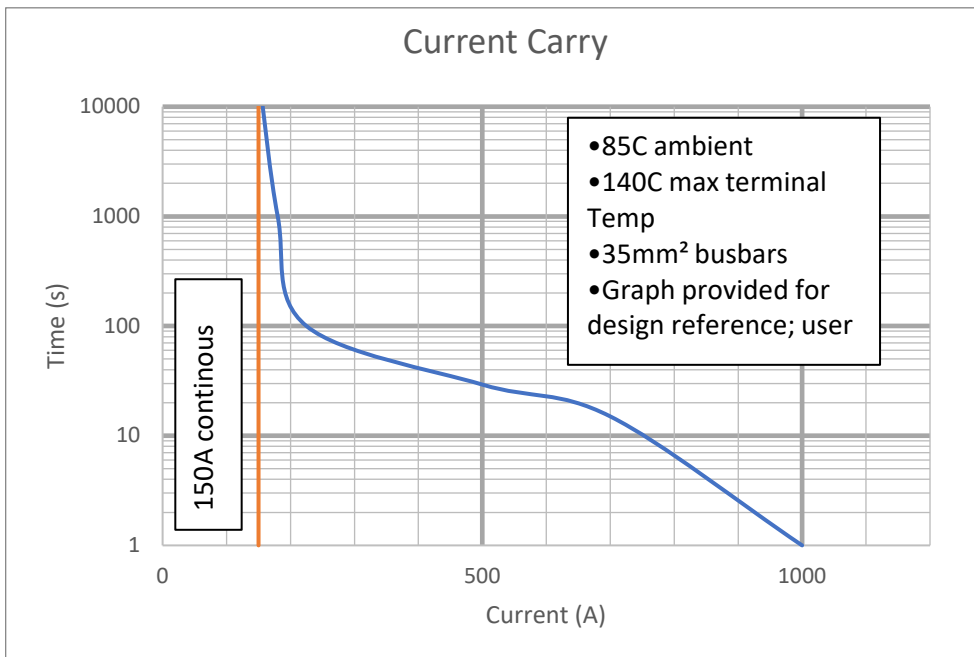


TABLE 2. RESISTIVE LOAD SWITCHING (MAKE / BREAK DATA)		
VOLTAGE	CURRENT	CYCLES (1 cycle = 1 make + 1 break)
450V	100A	25,000
800V	100	7,500
800V	50A	30,000 BREAK only
1000V	100	500
320V	400A	1 cycle / fault interrupt

OPTIONS

TABLE 3. PRODUCT NOMENCLATURE

SERIES	CONTACT POLARITY	MOUNTING	COIL	AUXILIARY CONTACTS
REC15	<b>B</b> Bi-directional	<b>1</b> Bottom Mount	<b>A</b> 12V single coil	<b>X</b> None
	<b>P</b> Polarity Sensitive		<b>B</b> 24V single coil	<b>A</b> SPST, (Normally Open)
			<b>C</b> 48V single coil	

PRODUCT DIMENSIONS [mm]

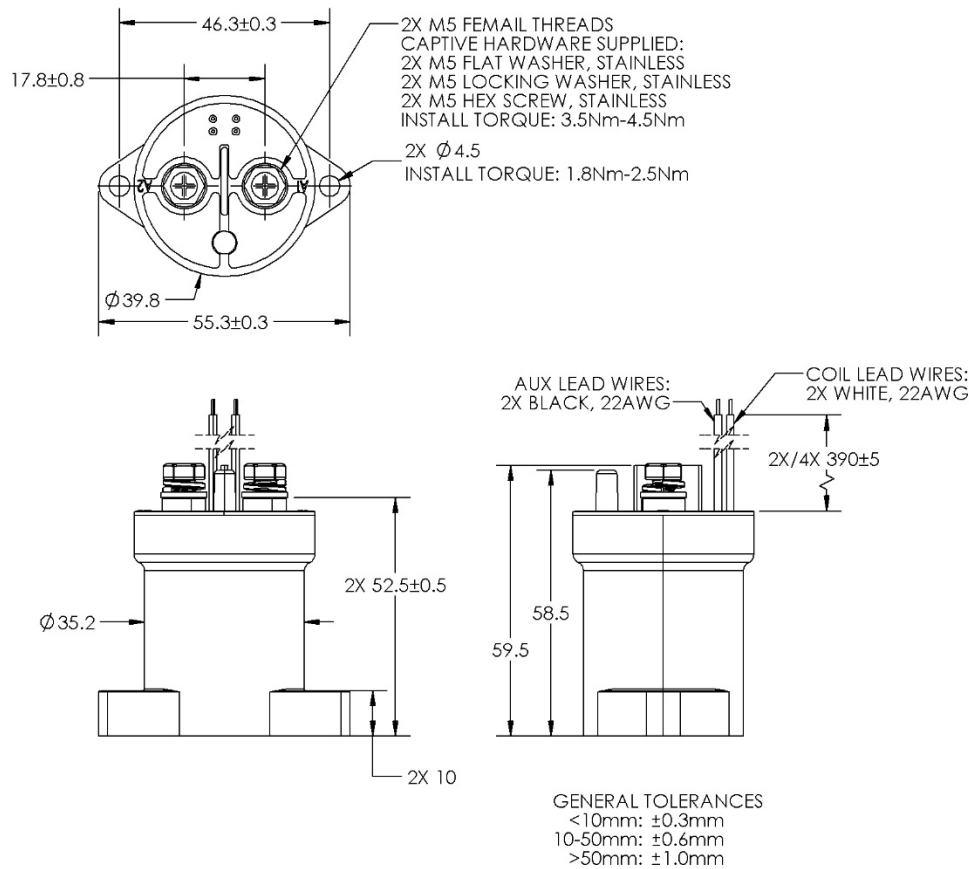


TABLE 4. DIMENSIONAL AND INSTALLATION

CHARACTERISTIC	MEASURE
Weight	190g (0.42 lb)
Mounting Position	Any / Not Position Sensitive
Package Quantity	30
Coil / Aux Wires	22 AWG
Install Torque M5 Main Terminals	2.5-4.5 Nm (22-40 in-lb)
Install Torque M4 mounting hardware	2.3 Nm

## NOTES

- The auxiliary contacts are connected internally via an armature on the main contact plunger. As the main contacts close, they automatically cause the auxiliary contacts to close.
- 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.

### Legal Disclaimer Notice for Rincon Power, LLC Datasheet

This legal disclaimer applies to purchasers and users of products manufactured by or on behalf of Rincon Power, LLC ("Rincon"). Unless otherwise expressly indicated in writing, Rincon's products, product specifications and data sheets relating thereto are subject to change without notice. Users should check for and obtain the latest revision information and verify that such information is current and complete before placing orders for Rincon's products. Users should always verify the actual performance of the Rincon's products in their specific systems and applications.

Except as expressly set forth in the relevant purchaser order terms and conditions or applicable agreement, Rincon makes no warranty, representation or guarantee regarding the products, expressed or implied, including, but not limited to, a warranty of merchantability or fitness for a particular purpose. To the maximum extent permitted by applicable law, Rincon disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

In no event shall Rincon be liable for any incidental or consequential damages resulting from the use, misuse or inability to use the product. This exclusion applies regardless of whether such damages are sought based on breach of warranty, breach of contract, negligence, strict liability in tort, or any other legal theory.