

REC10 SERIES

High Voltage Contactors

100+A 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
- CCC Certified
- UL recognized (File E536110) refer to UL file for specific 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 ² conductor		150A	
6AWG, 13.3mm ²		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 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		-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
Pick-up Voltage (Max)		9.6 VDC	19.2 VDC
Drop-out Voltage (Min)		0.8 VDC	1.6 VDC
Holding Current		0.46A	0.25A
Coil Resistance +/- 5%		26Ω	96Ω
Coil Power		5.5W	6W

Current Carry (85C Ambient)

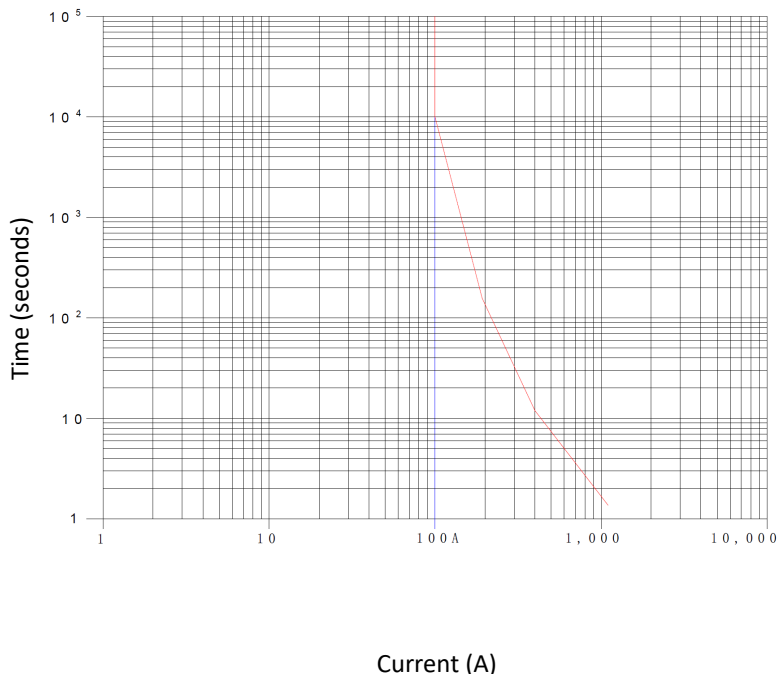


TABLE 2. RESISTIVE LOAD SWITCHING (MAKE / BREAK DATA)			
POLARITY SENSITIVE			CYCLES (1 cycle = 1 make + 1 break)
VERSION	VOLTAGE	CURRENT	
	450V	100A	8,000
	450V	1,500A	1 (Fault Interrupt)
	650V	100A	1,000
BI-DIRECTIONAL			CYCLES (1 cycle = 1 make + 1 break)
VERSION	VOLTAGE	CURRENT	
	450V	100A	6,000
	650V	100A	600

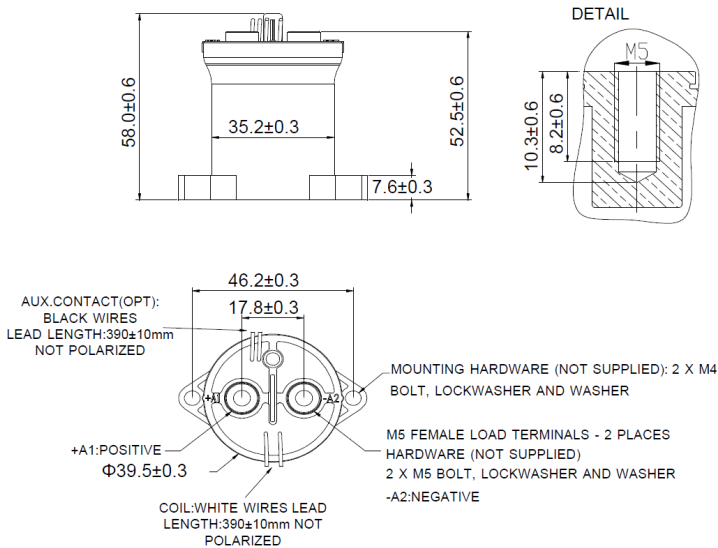
OPTIONS

TABLE 3. PRODUCT NOMENCLATURE

SERIES	CONTACT POLARITY	MOUNTING	COIL	AUXILIARY CONTACTS
REC10	B Bi-directional	1 Bottom Mount	A 12V single coil	X None
	P Polarity Sensitive	2 Side Mount	B 24V single coil	A SPST, (Normally Open)
			C 48V single coil	

PRODUCT DIMENSIONS [mm]

A: BOTTOM MOUNT



B: SIDE MOUNT

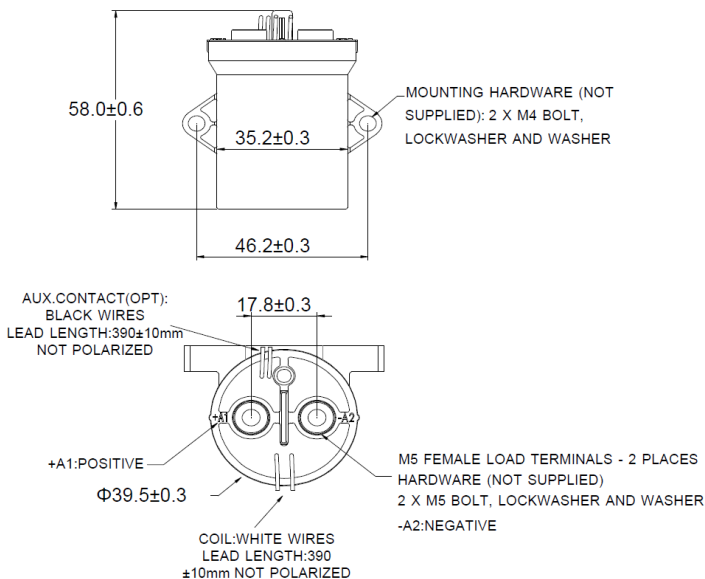


TABLE 4. DIMENSIONAL AND INSTALLATION

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.