

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) c Tus
 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 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 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		
Coil Resistance +/- 5% Coil Power	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
Coll Fowel	0.000 000		

Current Carry (85C Ambient)

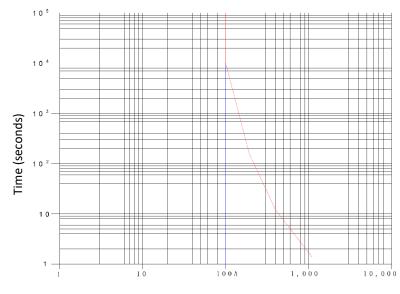


TABLE 2. RESISTIVE LOAD SWITCHING (MAKE / BREAK DATA)				
POLARITY SENSITIVE VERSION VOLTAGE CURRENT		CYCLES (1 cycle = 1 make + 1 break)		
450V	100A	8,000		
450V	1,500A	1 (Fault Interrupt)		
650V	100A	1,000		
BI-DIRECTIONAL VERSION VOLTAGE CURRENT		CYCLES (1 cycle = 1 make + 1 break)		
450V	100A	6,000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

Current (A)



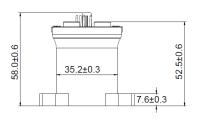


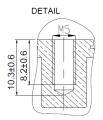
OPTIONS

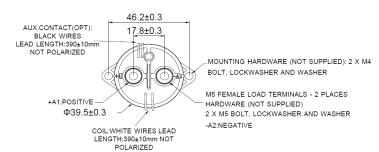
TABLE 3. PRODUCT NOMENCLATURE					
	CONTACT POLARITY	MOUNTING	COIL	AUXILIARY CONTACTS	
REC10	B Bi-directional	1 Bottom Mount	A 12V single coil	X None	
	P Polarity Sensitive 2 Side Mount	2 Side Mount	B 24V single coil	A SPST,	
		Z Side Mount	C 48V single coil	Normally Open	

PRODUCT DIMENSIONS [mm]

A:BOTTOM MOUNT







B:SIDE MOUNT

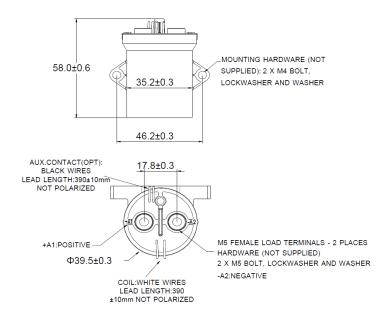


TABLE 4. DIMENSIONAL AND INSTALLATION				
CHARACTERISTIC	MEASURE			
Weight	190g (0.42 lb)			
Mounting Position	Any / Not Position Sensitive			
Package Quantity	30			
Install Torque M5 Main Terminals	2.5-4.5Nm (22-40 in-lb)			



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

