



High Voltage Contactors

50A CONTINUOUS DUTY

1500V SYSTEM VOLTAGE



FEATURES

SPST Normally Open High Voltage Contactors

- Metal-ceramic hermetic seal
- High Temperature Performance
- Low contact resistance over life
- Meets RoHS 2011/65/EU
- IEC60947-5-1 compliant





PERFORMANCE

TABLE 1. SPECIFICATIONS		
CHARACTERISTIC	MEASURE	
Contact Arrangement	Form X, SPST NO	
Max Switching Voltage ¹	1500 VDC	
Dielectric Withstand Voltage	4,500 VAC, 1 minute contacts to coil 4,500 VDC, 1 minute across open contacts	
Continuous Current (15mm ² conductor)	50A	
Overload Current 30 seconds 1 hour	240A 90A	
Make and Break – 50A @ 750V	3,000 cycles	
Max Short Circuit Current -0.5 second	600 A	
Min Insulation Resistance	1,000 Mohm @ 1,000VDC	
Contact Voltage Drop (Max)	125mV @ 60A	
Operate Time (Max, incl bounce)	30ms	
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	200,000 cycles	
AUXILIARY CONTACTS	MEASURE	
Contact Arrangement	Not available	
COIL (20° C)	MEASURE	
Nominal Voltage	12 VDC 24 VDC	
Pick-up Voltage (Max)	9 VDC 18 VDC	
Drop-out Voltage (Min)	1 VDC 2 VDC 0.44A 0.22A	
Holding Current (Max) Coil Power at Nominal Voltage	0.44A 0.22A 5.2W 5.2W	
Coll I Owel at Norminal Voltage	5.277	

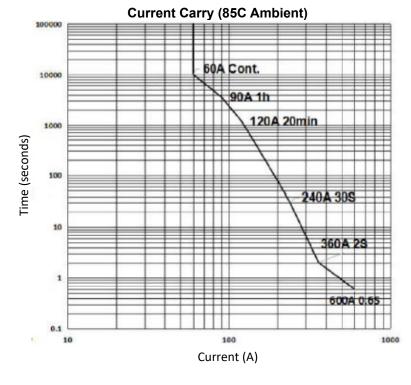


TABLE 2. RESISTIVE LOAD SWITCHING (MAKE / BREAK DATA)				
BI-DIRECTIONA VOLTAGE	L VERSION	CYCLES (1 cycle = 1 make + 1 break)		
750V	60A	3,000		
750V	10A	50,000		
1000V	50A	1,000		
1000V	20A	10,000		

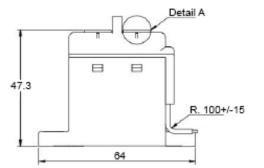
¹ Contactor can be used in systems with higher voltages, but should be limited to no current, or very low current breaking. Contact Rincon Power for more details

OPTIONS

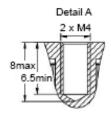
TABLE 3. PRODUCT NOMENCLATURE					
	CONTACT POLARITY	MOUNTING	COIL	AUXILIARY CONTACTS	
RXR05	B Bi-directional	1 Bottom Mount	A 12V	X None	
		4 PCB Assembly	B 24V		

PRODUCT DIMENSIONS [mm]

Bottom Mount







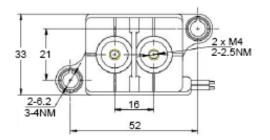
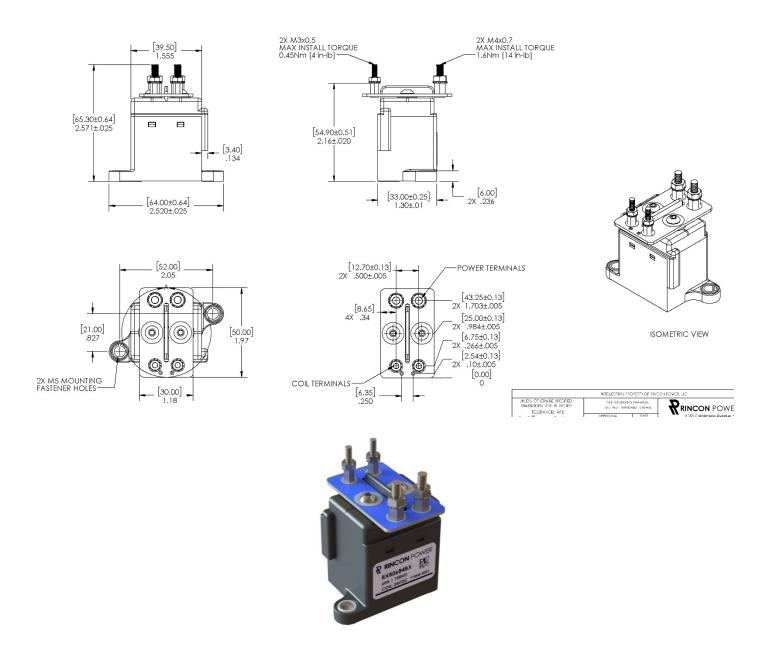


TABLE 4. DIMENSIONAL AND INSTALLATION				
CHARACTERISTIC	MEASURE			
Weight	170g (0.38 lb)			
Mounting Position	Any / Not Position Sensitive			
Package Quantity	TBD			
Install Torque M4 Main Terminals	3-4Nm (27-35 in-lb)			



PCB Assembly with Studs (Mounting Option 4)



NOTES

- 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