

RER02 SERIES

High Voltage Contactors

20 CONTINUOUS DUTY

750V SYSTEM VOLTAGE





FEATURES

SPST Normally Open High Voltage Contactors

- PCB Mountable (optional)
- Low-cost pre-charge solution
- Meets RoHS 2011/65/EU

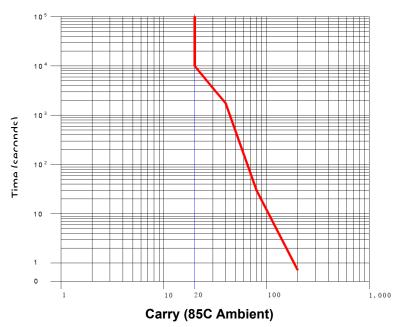




PERFORMANCE

TABLE 1. SPECIFICATIONS	
CHARACTERISTIC	MEASURE
Contact Arrangement	Form X, SPST NO
Max Switching Voltage ¹	750 VDC
Dielectric Withstand Voltage	3,000 VAC, 1 minute contacts to coil 2,500 VAC, 1 minute across open contacts
Continuous Current (15mm ² conductor)	20A
Overload Current 30 seconds 1 hour	80A 30A
Max Break – 30A @ 450V	5 cycles
Max Short Circuit Current -0.5 second	200 A
Min Insulation Resistance	1,000 Mohm @ 500VDC
Contact Voltage Drop (Max)	50mV @ 10A
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	IP67,
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)	0.8 VDC 1.6 VDC
Coil Resistance	48Ω 192Ω 3W 3W
Coil Power at Nominal Voltage	3W 3W

Current



Current (A)

TABLE 2. RESISTIVE LOAD SWITCHING (MAKE / BREAK DATA)				
Polarity Sensitive VOLTAGE CURRENT		CYCLES (1 cycle = 1 make + 1 break)		
450V	20A	5,000		
450V	10A	10,000		
450V	20A	75,000 (MAKE only)		

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

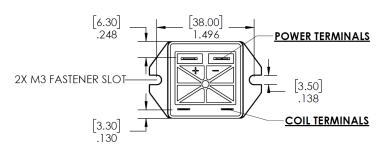


OPTIONS

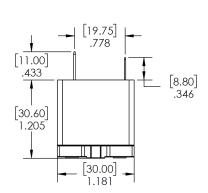
TABLE 3. PRODUCT NOMENCLATURE				
	CONTACT POLARITY	MOUNTING	COIL	AUXILIARY CONTACTS
RER02 P Polarity Sensitive		1 Bottom Mount	A 12V	X None
	D Dalawity Camaitiya	3 PCB Mount	A IZV	
	P Polarity Sensitive	4 PCB Assembly with studs	B 24V	
		5 Stud Terminal Package		

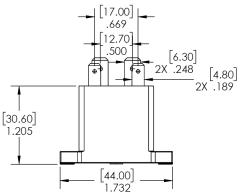
PRODUCT DIMENSIONS [mm]

Bottom Mount

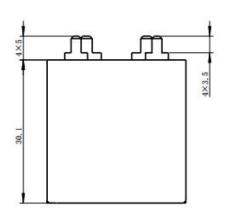


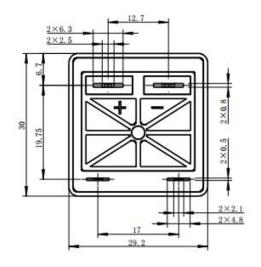






PCB Mount (Option 3)









PCB Assembly with Studs (Option 4)

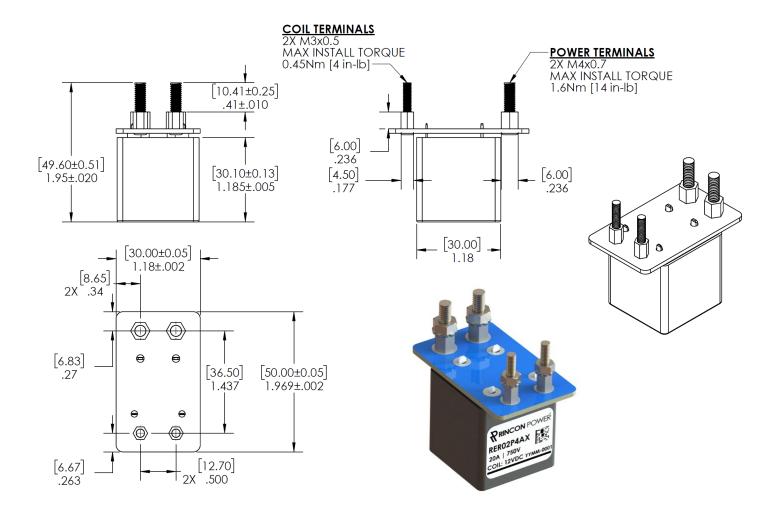
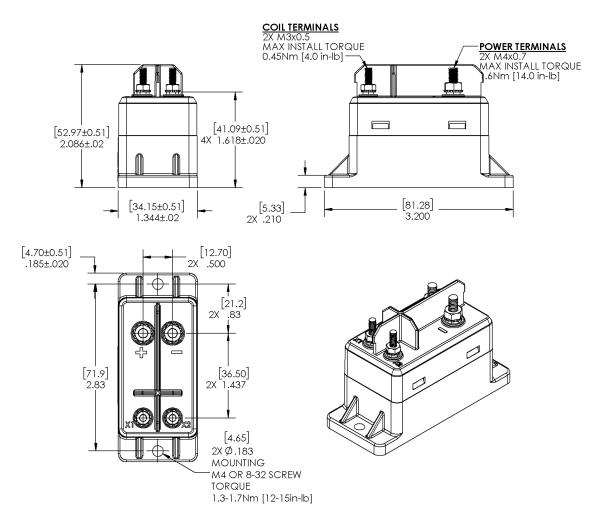


TABLE 4. DIMENSIONAL AND INSTALLATION			
CHARACTERISTIC	MEASURE		
Weight	50g (0.11 lb)		
Mounting Position	Any / Not Position Sensitive		
Package Quantity	100		
(PCB) welding Parameters	Manual welding: $(350\pm20)^{\circ}$ C,time 3s; Wave soldering: $(265\pm5)^{\circ}$ C,time $(3\sim8)$ s.		



Stud Terminal Package (Option 5)





NOTES

- 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