



High Voltage Contactors







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		1000 VDC			
Dielectric Withstand Voltage (Max Leakage Current: 1mA)		3,000 VAC, 1 minute contacts to coil 3,000 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	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)					
Drop-out voitage (Min)					
Coil Power at Nominal Voltage		3///	3\//		
		011			



TABLE 2. RESISTIVE LOAD SWITCHING (MAKE / BREAK DATA)				
Polarity Sensitive		CYCLES (1 cycle = 1 make +		
VOLTAGE	CURRENT	1 break)		
450V	20A	5,000		
450V	10A	10,000		
450V	20A	75,000 (MAKE only)		
800V	15A	50,000		
		(MAKE only)		
1000\/	10A	30,000		
10000		(MAKE only)		
1000V	10A	250 (BREAK 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 Pola		1 Bottom Mount	A 10V	X None	
	Delarity Consiting	3 PCB Mount	A IZV		
	P Polanty Sensitive	4 PCB Assembly with studs			
		5 Stud Terminal Package	D 24V		

PRODUCT DIMENSIONS [mm]

Bottom Mount









PCB Mount (Option 3)









PCB Assembly with Studs (Option 4)



TABLE 4. DIMENSIONAL AND INSTALLATION				
CHARACTERISTIC	MEASURE			
	50g PCB mount version			
Weight	65g PCB assembly version			
0	105g Stud terminal version			
Mounting Position	Any / Not Position Sensitive			
Package Quantity	100			
	Manual welding:			
(PCB) welding	(350±20°C), time 3s;			
Parameters	Wave soldering:			
	(265±5°C), time (3~8)s.			

Rincon Power, LLC



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.