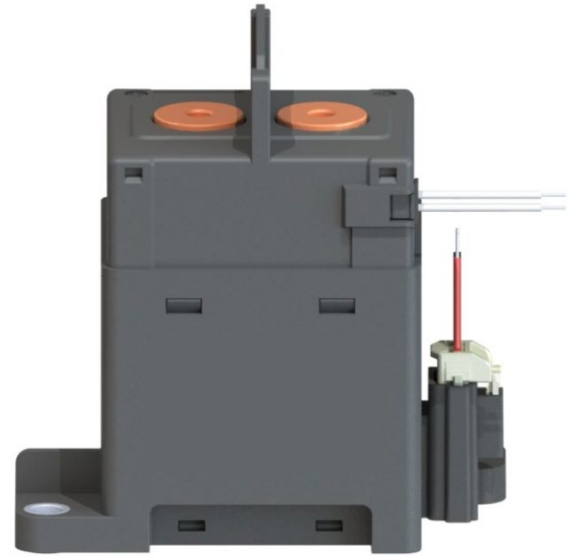


# RXR40 SERIES

High Voltage Contactors

**400A** CONTINUOUS DUTY

**1500V** SYSTEM VOLTAGE



## FEATURES

### SPST Normally Open High Voltage Contactors

- Hermetic seal with gas fill
- Auxiliary contacts – for main position feedback
- Integrated coil economizer to reduce coil holding power
- Bi-Directional Power Switching
- Meets RoHS 2011/65/EU
- IEC60947-4-1 compliant



**PERFORMANCE**

TABLE 1. SPECIFICATIONS			
CHARACTERISTIC		MEASURE	
Contact Arrangement		Form X, SPST NO	
Max Switching Voltage		1,500 VDC	
Dielectric Withstand Voltage Across Open Contacts		4,500 VAC, 1 minute 4,500 VDC, 1 minute	
Continuous Current (127mm <sup>2</sup> conductor)		400A	
Overload Current	1 minute	1,000A	
	30 seconds	1,200A	
Short Circuit Withstand		8,000A (10ms)	
Make and Break		See table	
Min Insulation Resistance		1,000 Mohm @ 1,000V	
Contact Resistance (typical)		0.15mohm at 400A	
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		500,000	
AUXILIARY CONTACTS		MEASURE	
Contact Arrangement		SPST	
Continuous Current		2A	
Minimum Current		5mA @ 8V	
COIL		MEASURE	
Nominal Voltage		12V	24V 48V
Max Voltage		16V	32V 64V
Pick-up Voltage (Max)		≤ 9VDC	≤ 18VDC ≤ 36VDC
Drop-out Voltage (Min)		1.2VDC	2.4VDC 4.8VDC
Inrush Current (Max) – up to 300ms		4.2A	2.1A 1A
Holding Current		0.42A	0.21A 0.10A

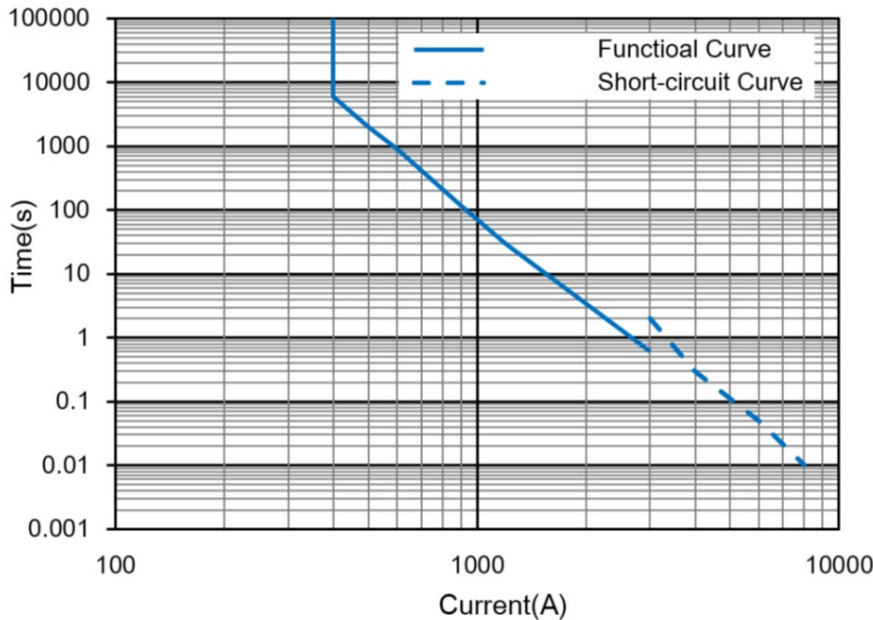


TABLE 2. RESISTIVE LOAD SWITCHING (MAKE / BREAK DATA)		
BI-DIRECTIONAL		CYCLES (1 cycle = 1 make + 1 break)
VOLTAGE	CURRENT	
400V	400A	2000
800V	400A	800
1000V	400A	200 (BREAK)
1500V	250A	50 (BREAK)
450V	800A	50 (BREAK)
800V	2500A	1 (BREAK)

**OPTIONS**

TABLE 3. PRODUCT NOMENCLATURE				
	CONTACT POLARITY	MOUNTING	COIL	AUXILIARY CONTACTS
<b>RXR40</b>	<b>B</b> Bi-directional	<b>1</b> Bottom Mount	<b>P</b> 12V economized coil <b>Q</b> 24V economized coil <b>R</b> 48V economized coil	<b>A</b> SPST, Normally Open

**PRODUCT DIMENSIONS [mm]**

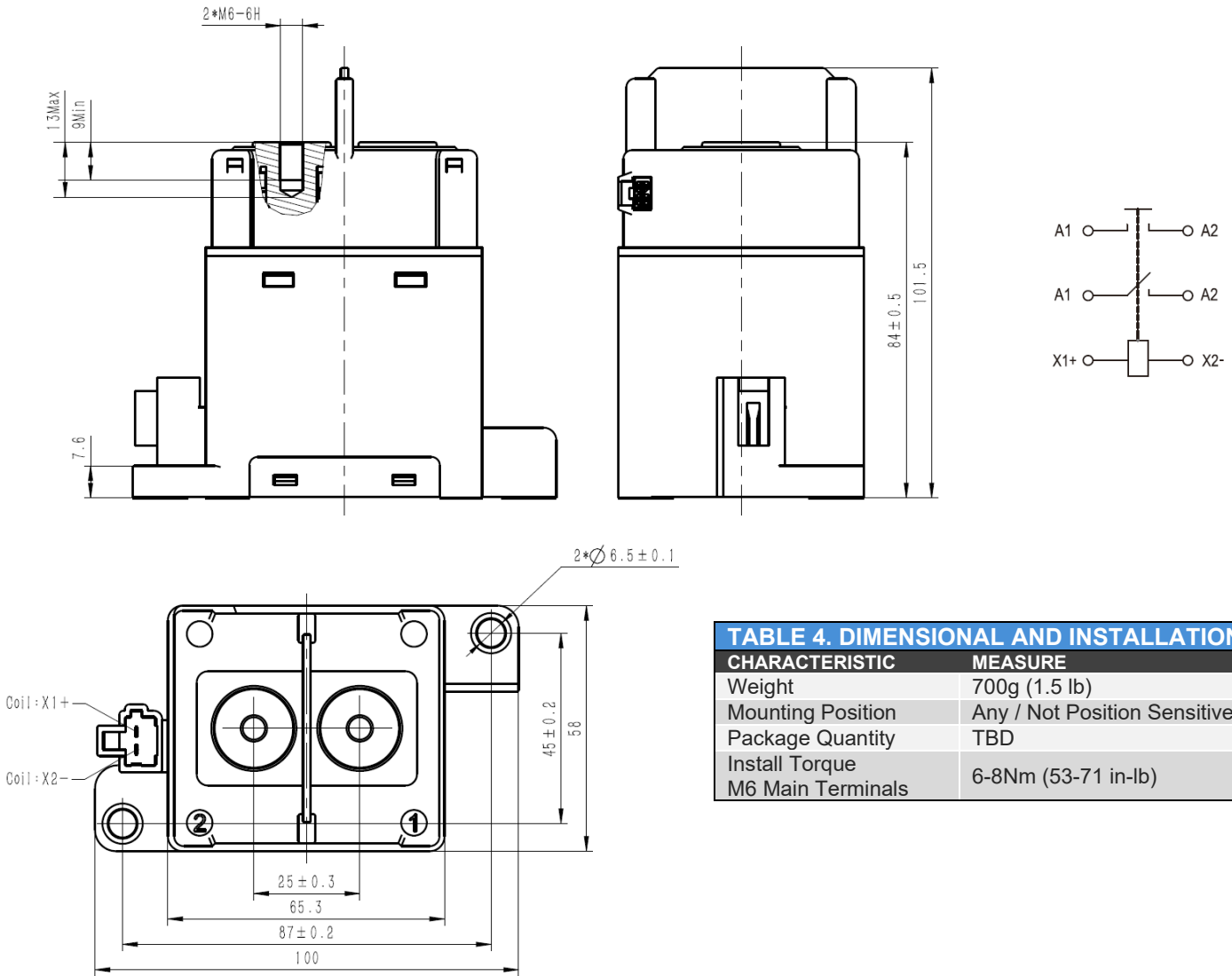


TABLE 4. DIMENSIONAL AND INSTALLATION	
CHARACTERISTIC	MEASURE
Weight	700g (1.5 lb)
Mounting Position	Any / Not Position Sensitive
Package Quantity	TBD
Install Torque	6-8Nm (53-71 in-lb)
M6 Main Terminals	

TABLE 5. Connector Info	
Coil	Part Number
Yazaki	7283-1020
Yazaki	7116-4020
Aux contacts	Part Number
Molex	43645-0200
Molex	43030-0001

## NOTES

- The coil is polarized, please follow schematic when wiring the coil
- The coil has an integrated economizer that limits coil holding power. Please allow for inrush of up to 300ms to fully close the contacts. Coil economizer will automatically reduce coil current once the contacts are closed
- 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