

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		1500 VDC	
Dielectric Withstand Voltage (Across Open Contacts)		4000 VAC, 1 minute	
Dielectric Withstand Voltage (Across Closed Contacts and Coil)		3000 VAC, 1 minute	
Continuous Current (127mm ² conductor)		400A	
Overload Current	1 minute	1000A	
	30 seconds	1200A	
Short Circuit Withstand		8000A (10ms)	
Make and Break		See table	
Min Insulation Resistance		1000 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
Coil Back EMF (Internal TVS)		29V	58V 113V

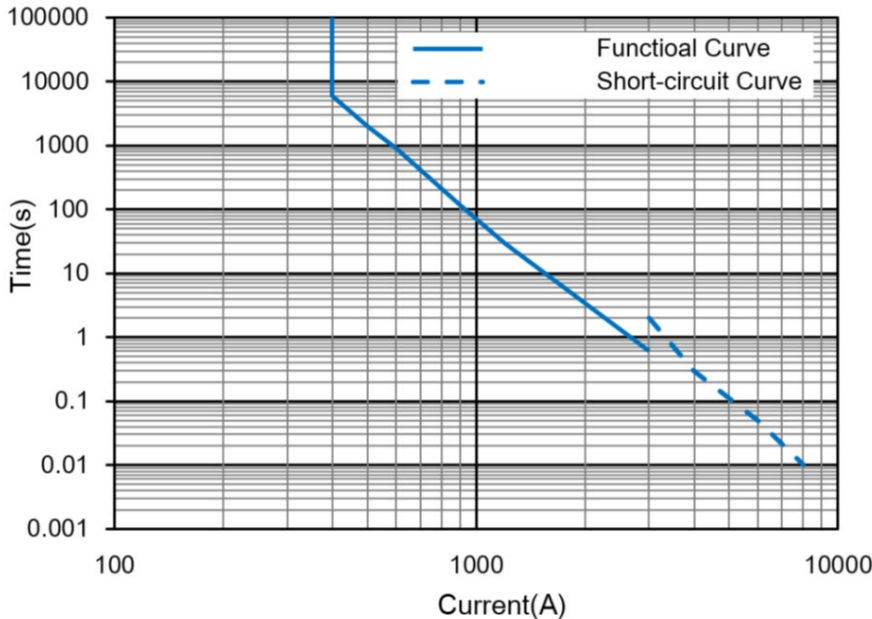


TABLE 2. RESISTIVE LOAD SWITCHING (MAKE / BREAK DATA)		
BI-DIRECTIONAL		CYCLES (1 cycle = 1 make + 1 break)
VOLTAGE	CURRENT	
400V	400A	2000
800V	400A	800
1000V	400A	200 (Break Only)
1500V	250A	50 (Break Only)
450V	800A	50 (Break Only)
800V	2500A	1 (Break Only)

OPTIONS

TABLE 3. PRODUCT NOMENCLATURE

SERIES	CONTACT POLARITY	MOUNTING	COIL	AUXILIARY CONTACTS
RXR40	B Bi-directional	1 Bottom Mount	P 12V economized coil Q 24V economized coil R 48V economized coil	A SPST, Normally Open

PRODUCT DIMENSIONS [mm]

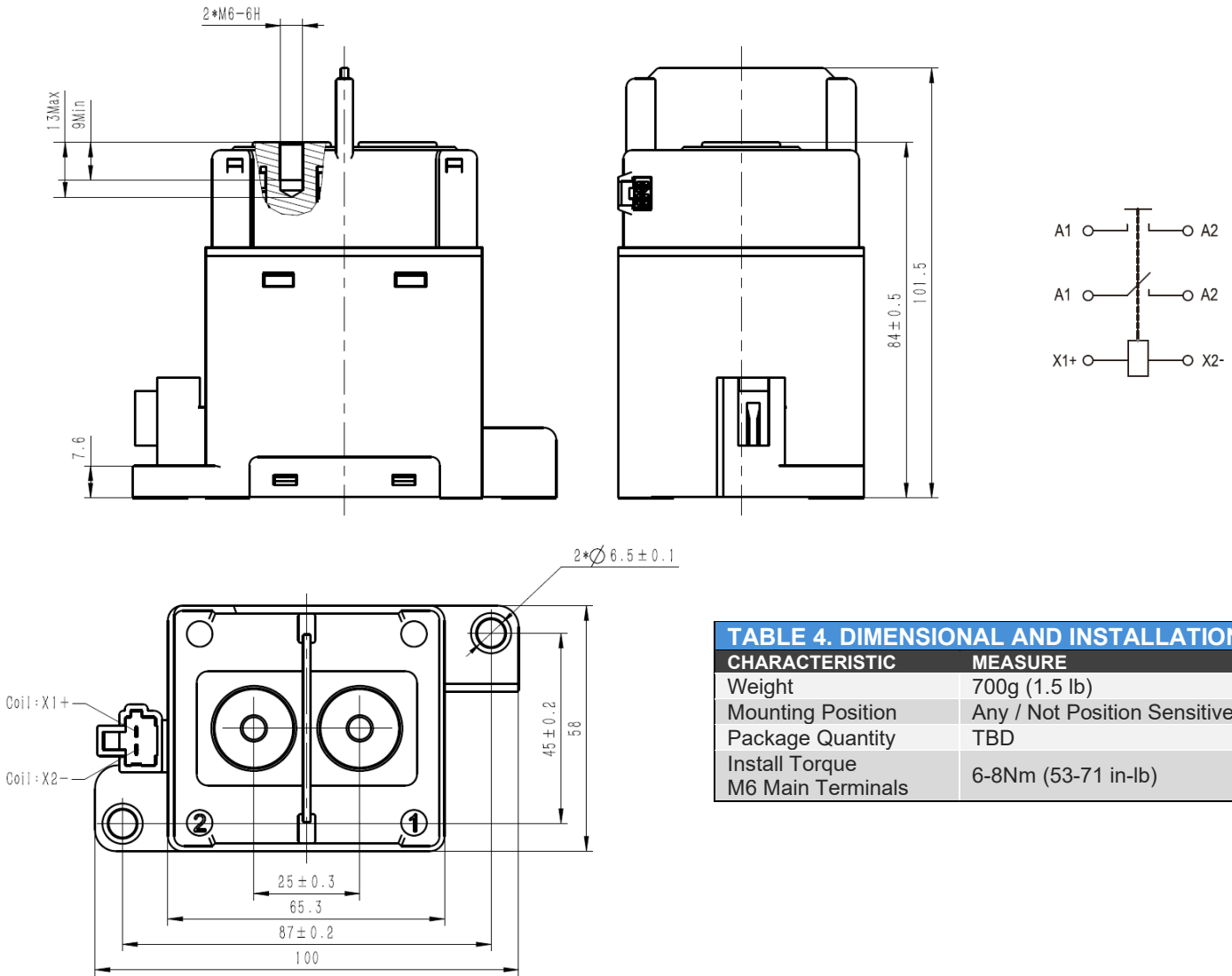


TABLE 4. DIMENSIONAL AND INSTALLATION

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

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

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