

RXR26 SERIES

High Voltage Contactors

250A CONTINUOUS
DUTY

1500VDC SYSTEM
VOLTAGE



DESCRIPTION

The RXR26 Series are ceramic-sealed high voltage DC contactors designed for higher-current DC power switching in system-level applications requiring a rectangular contactor form factor. Rated for continuous currents up to 250A and system voltages up to 1500VDC, the RXR26 Series provides robust bi-directional DC switching performance with improved voltage capability over earlier RXR platforms.

Capable in 1500V systems, the RXR26 series is suitable for higher voltage energy storage systems, charging infrastructure subsystems, and industrial DC power control applications where ceramic sealing and rectangular packaging are preferred.

FEATURES

SPST Normally Open High Voltage DC Contactor

- Ceramic-sealed DC contactor construction
- Rectangular form factor for system-level integration
- Bi-directional DC power switching
- SPST Normally Open contact arrangement
- Continuous current rating up to 250A
- System voltage rating up to 1500VDC
- Optional auxiliary contacts
- Meets RoHS 2011/65/EU and REACH compliance

TYPICAL APPLICATIONS

- Battery energy storage systems (BESS)
- DC charging infrastructure subsystems
- Industrial DC power distribution
- Renewable energy power conversion systems
- Auxiliary DC power switching
- System-level DC control applications

For factory-direct technical support and application assistance:

Call +1 805 456 6424

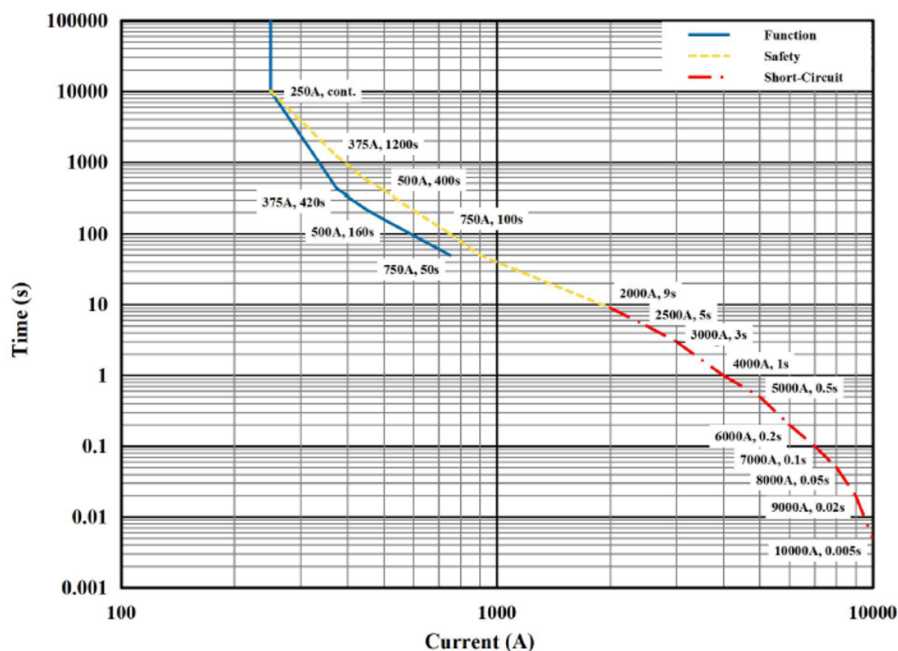
Email info@rinconpower.com

Visit <https://www.rinconpower.com/contact-us>

PERFORMANCE

TABLE 1. SPECIFICATIONS

CHARACTERISTIC	MEASURE	
Contact Arrangement	Form X, SPST NO	
Max Switching Voltage ¹	1,500 VDC	
Dielectric Withstand Voltage	3,000 VAC, 1 minute contacts to coil	
	5,000 VDC, 1 minute across open contacts	
Continuous Current (60mm ² conductor) ²	250A	
Overload Current 30 seconds	1,000A	
10 minutes	400A	
Fault Interrupt (1,000V, 1 cycle)	2,000A	
Max Short Circuit Current - 5ms	10,000 A	
Min Insulation Resistance	1,000 Mohm @ 500VDC	
Contact Resistance (Typical)	0.10 mohm at 250A	
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 100°C (limit terminal temp to 180°C) ³	
Max Terminal Temperature ³	180°C	
Ingress Protection	Exceeds IP69, (Hermetically sealed)	
Mechanical life	500,000 cycles	
AUXILIARY CONTACTS (optional)	MEASURE	
Contact Arrangement	Normally Open (SPST)	
Aux contact current rating	2A	
COIL (20° C)	MEASURE	
Nominal Voltage ⁴	12 VDC	24 VDC
Pick-up Voltage (Max) ⁵	9 VDC	18 VDC
Drop-out Voltage (Min) ⁵	1.2 VDC	2.4 VDC
Max Voltage (continuous) ⁶	16 VDC	32 VDC
Coil Power at Nominal Voltage ⁷	7 Watt	7 Watt


TABLE 2. RESISTIVE LOAD SWITCHING (MAKE / BREAK DATA)

BI-DIRECTIONAL VERSION		CYCLES 1 cycle = 1 make + 1 break
VOLTAGE	CURRENT	
28V	250A	200,000
500V	350A	500
800V	250A	1,500
800V	50A	100,000
1000V	250A	1,000
1000V	2000A	1 cycle (BREAK ONLY)
460V	500A	3,000 (MAKE ONLY)

OPTIONS

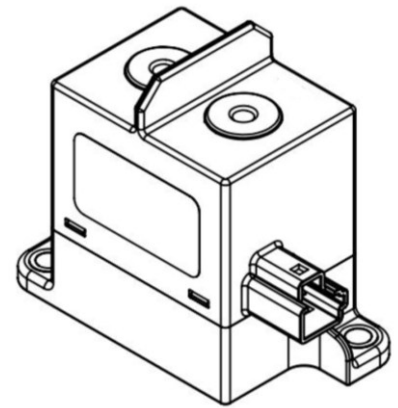
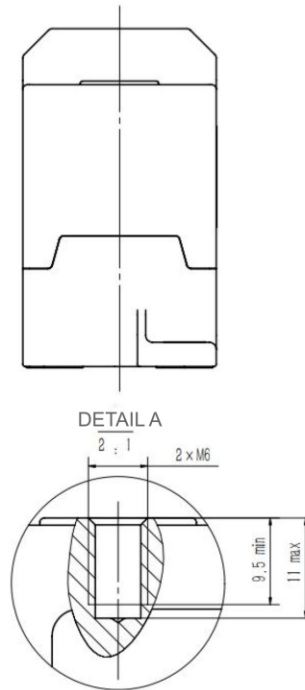
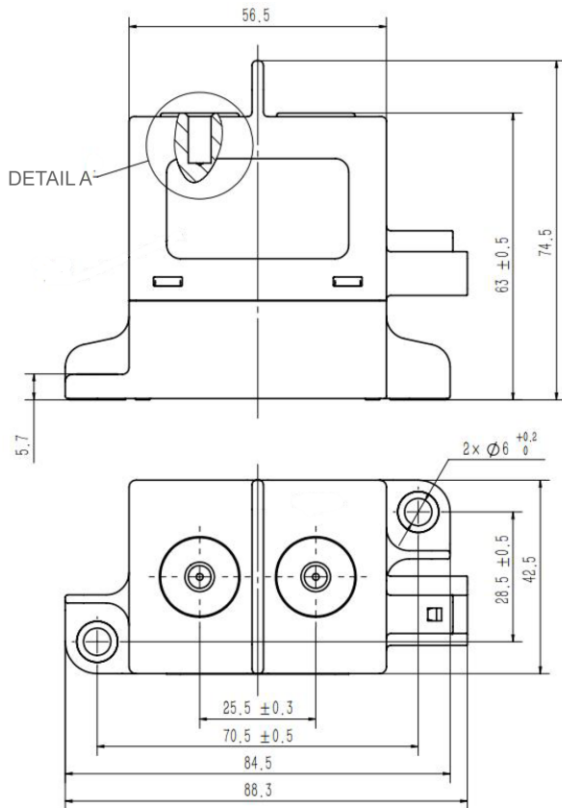
TABLE 3. PART NUMBER CONFIGURATION

SERIES	CONTACT POLARITY	MOUNTING	COIL	AUXILIARY CONTACTS
RXR26	B Bi-directional	1 Bottom Mount	A 12V single coil	X None
		2 Side Mount	B 24V single coil	A Normally open (SPST)

Available Part Numbers: RXR26B1AX, RXR26B1BX, RXR26B1AA, RXR26B1BA, RXR26B2AX, RXR26B2BX, RXR26B2AA, RXR26B2BA

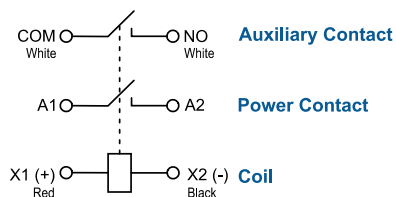
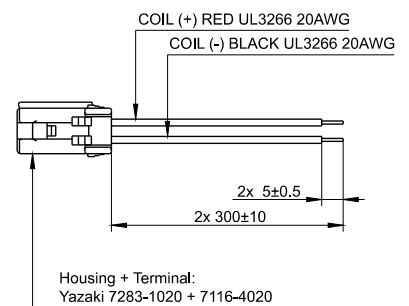
PRODUCT DIMENSIONS [mm]

Bottom Mount Version (RXR26B1)



3D model available upon request

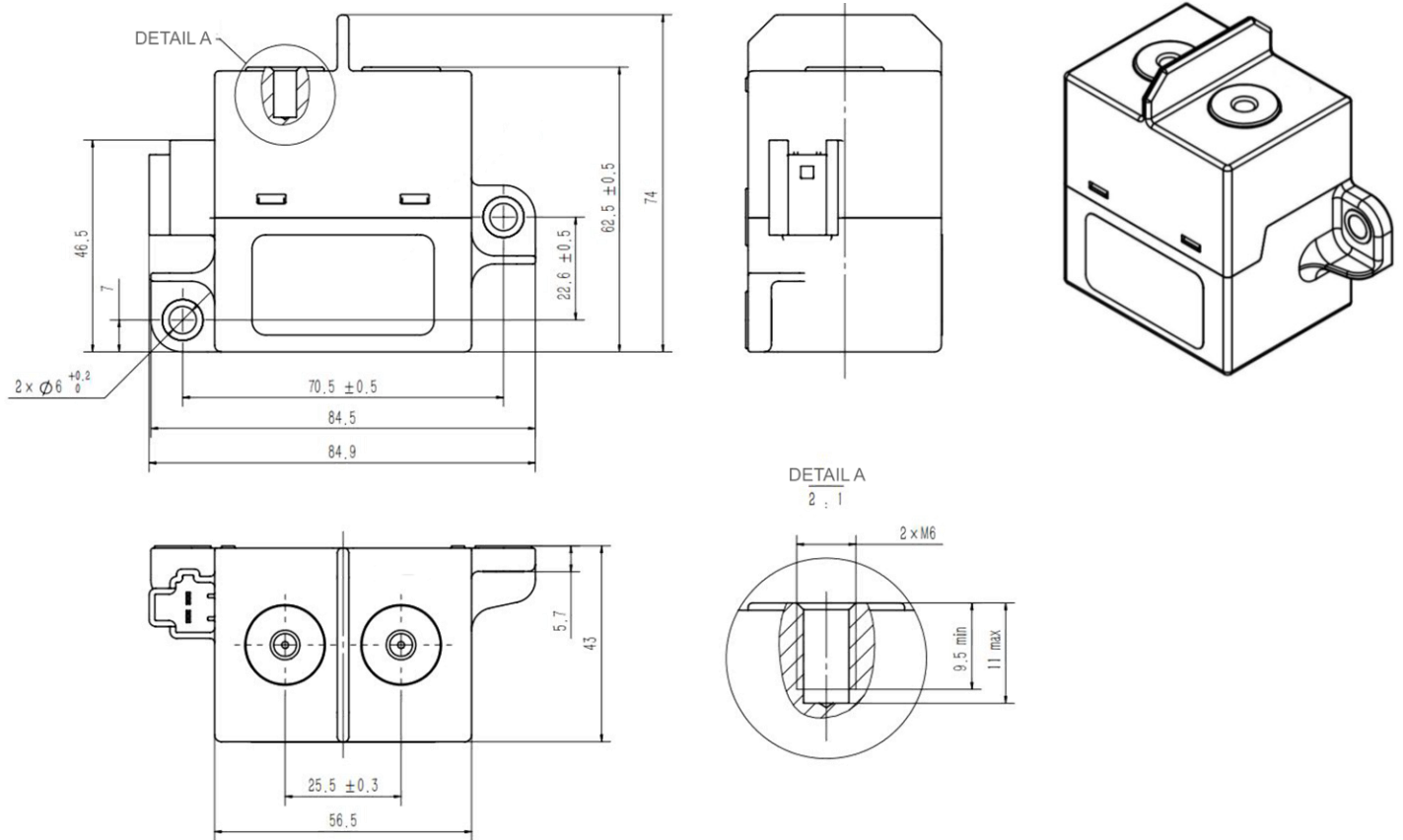
COIL CONNECTOR (OPTIONAL)


TABLE 4. DIMENSIONAL AND INSTALLATION

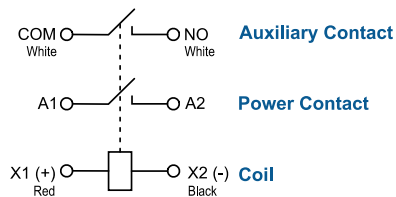
CHARACTERISTIC	MEASURE
Weight	440g (0.97 lb)
Mounting Position	Any / Not Position Sensitive
Package Quantity	20 each
Install Torque	6-8Nm (53-70 in-lb)
M6 Main Terminals	
Install Torque	3-4Nm (26-36 in-lb)
M5 housing / mount	

PRODUCT DIMENSIONS [mm]

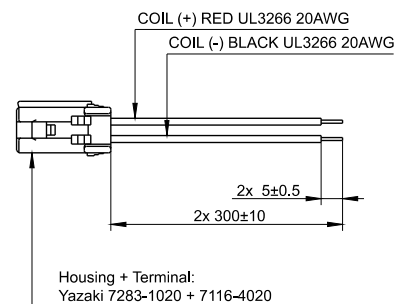
Side Mount Version (RXR26B2)



3D model available upon request



COIL CONNECTOR (OPTIONAL)



NOTES

1. 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.
2. Attach cables and busbars directly to the main terminal pad. Do not use washers or other materials between the contactor power terminals and the conductor.
3. Continuous current tested with 85°C temperature rise at the power terminals. Terminal temperature should be limited to 180°C.
4. Contactor does not have internal coil suppression. If suppression is required, we recommend bi-directional TVS with a clamping voltage is at least 2 times the rated nominal coil voltage. Do **not** use freewheeling diode.
5. Pick-up Voltage and Drop Out Voltage will be lower than indicated at temperatures below 25°C and higher than indicated at temperatures above 25°C.
6. Contactor is operated by a coil that changes resistance with temperature: Maximum coil voltage will be lower than indicated at temperatures above 25°C, and higher than indicated at temperatures below 25°C.
7. Nominal Coil Voltage for Pick-up Current, Coil Current and Coil Power specifications, Current/Wattage will be lower than indicated at temperatures above 25°C and higher than indicated at temperatures below 25°C.

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<https://tcs.rinconpower.com/product-datasheet-legal-disclaimer.pdf>