

REC40 SERIES

High Voltage Contactors

400A CONTINUOUS DUTY

1000V 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
- Meets RoHS 2011/65/EU
- IEC60947-5-1 compliant



PERFORMANCE

TABLE 1. SPECIFICATIONS	
CHARACTERISTIC	MEASURE
Contact Arrangement	Form X, SPST NO
Max Switching Voltage	1,000 VDC
Dielectric Withstand Voltage Across Open Contacts	3,500 VAC, 1 minute 3,500 VDC, 1 minute
Continuous Current (107mm ² conductor)	400A
Overload Current	1 minute: 1,000A 20 seconds: 2,000A
Make and Break	See table
Min Insulation Resistance	100 Mohm @ 1,000V
Contact Voltage Drop (Max)	50mV @ 100A
Operate Time (Max, incl bounce)	20ms
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	200,000
AUXILIARY CONTACTS	MEASURE
Contact Arrangement	SPST
Continuous Current	3A
Minimum Current	100mA @ 8V
COIL	MEASURE
Nominal Voltage	24 VDC
Pick-up Voltage (Max)	18 VDC
Drop-out Voltage (Min)	12 VDC
Inrush Current (Max)	0.55A
Holding Current	0.13A @ 24 VDC

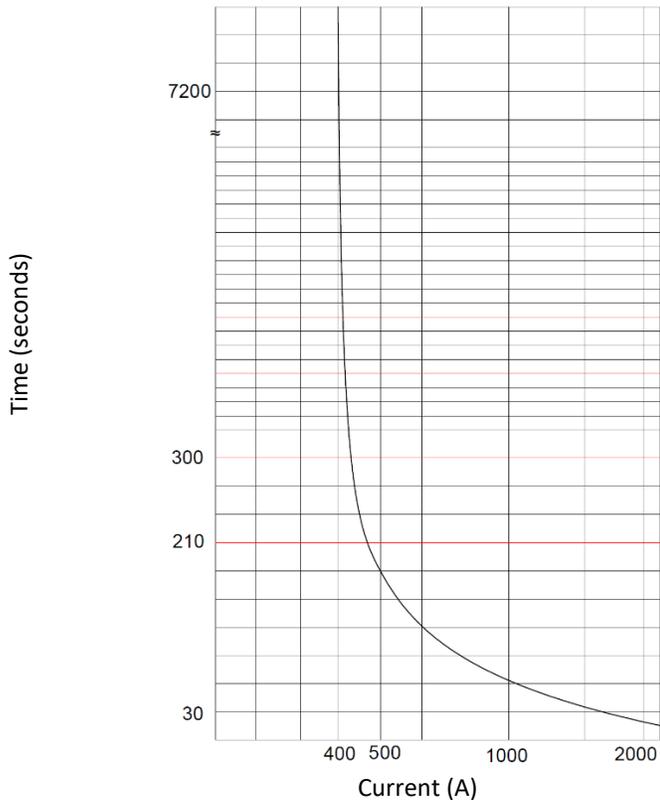


TABLE 2. RESISTIVE LOAD SWITCHING (MAKE / BREAK DATA)		
VOLTAGE	CURRENT	CYCLES (1 cycle = 1 make + 1 break)
450V	400A	1,000

Current Carry
(107mm² conductor)

OPTIONS

TABLE 3. PRODUCT NOMENCLATURE				
REC40	CONTACT POLARITY	MOUNTING	COIL	AUXILIARY CONTACTS
	P Polarity sensitive	1 Bottom Mount	Q 24V integrated economizer	A SPST, Normally Open

PRODUCT DIMENSIONS [mm]

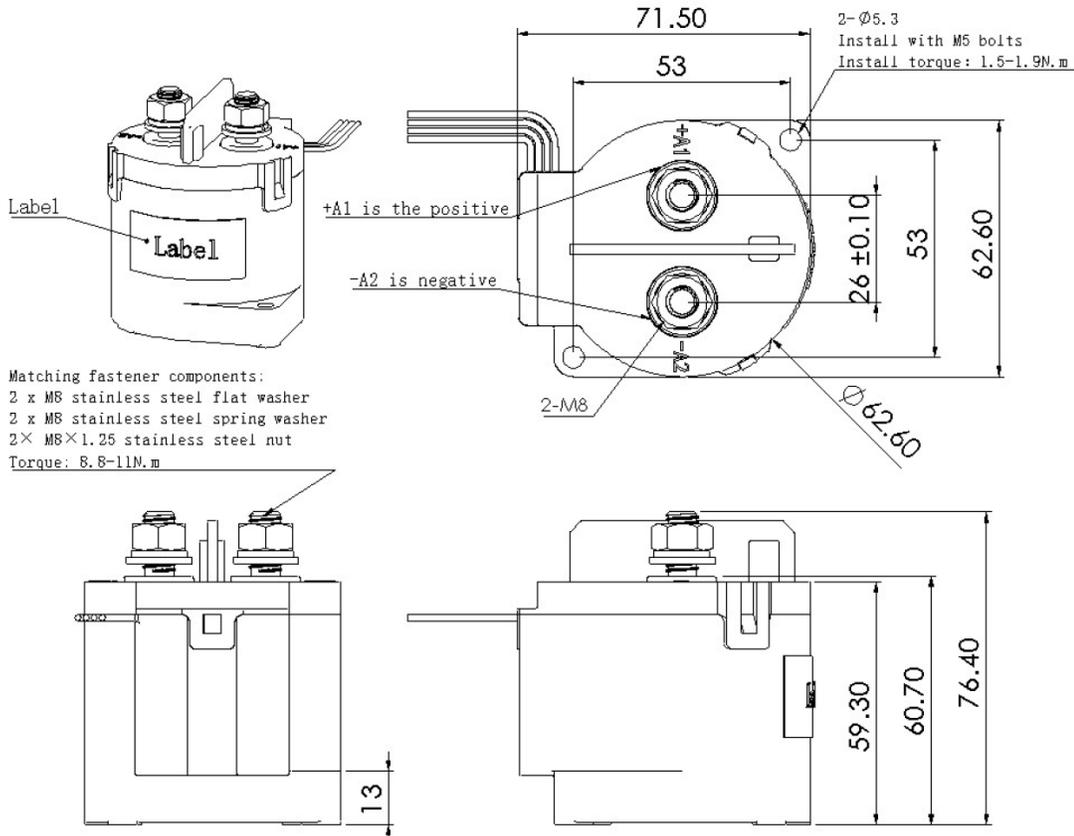


TABLE 4. DIMENSIONAL AND INSTALLATION	
CHARACTERISTIC	MEASURE
Weight	600g (1.32 lb)
Mounting Position	Any / Not Position Sensitive
Package Quantity	10 pieces
Install Torque	9-11Nm (80-97 in-lb)
M10 Main Terminals	

NOTES

- 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
- Contactors 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