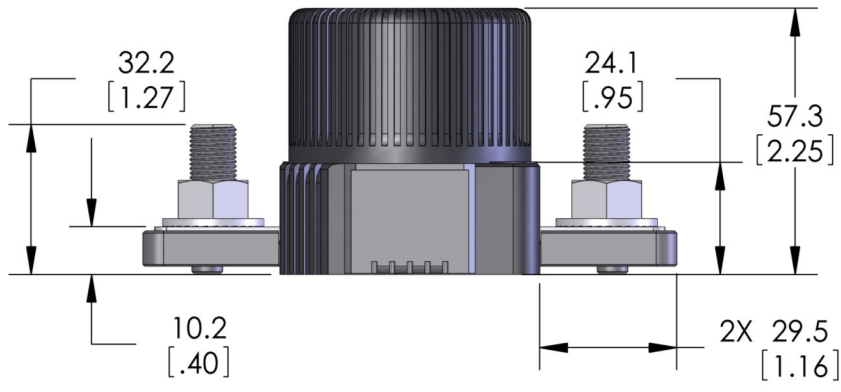
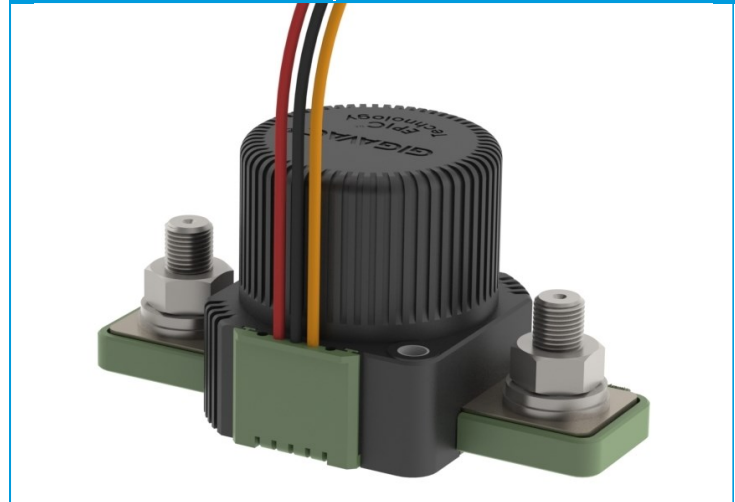
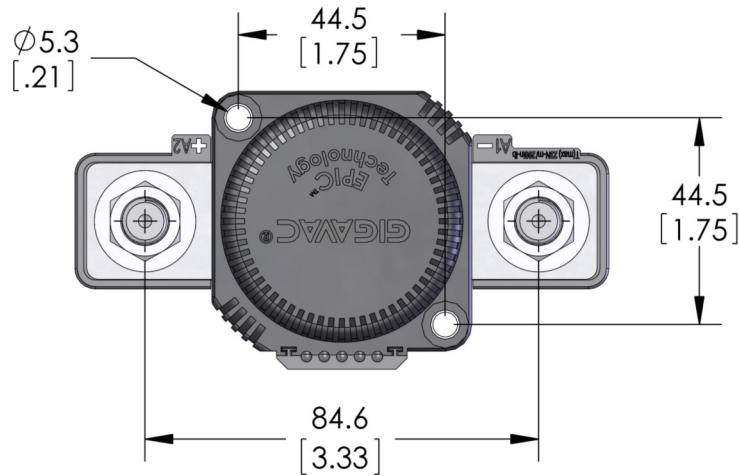


12V - 48V

**MXL14**

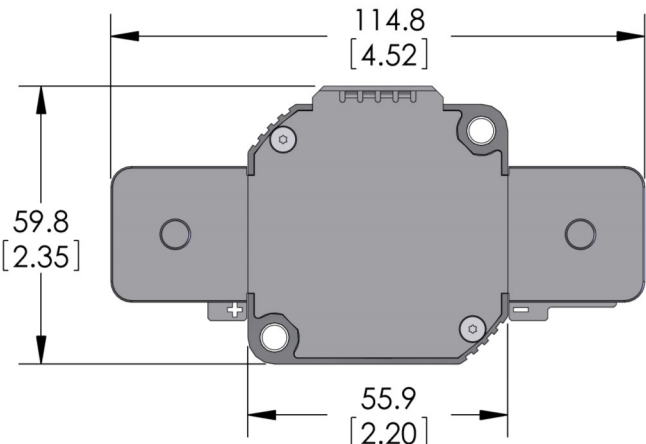
Chassis Mount

Latching 400A  
Bi-stable contactor

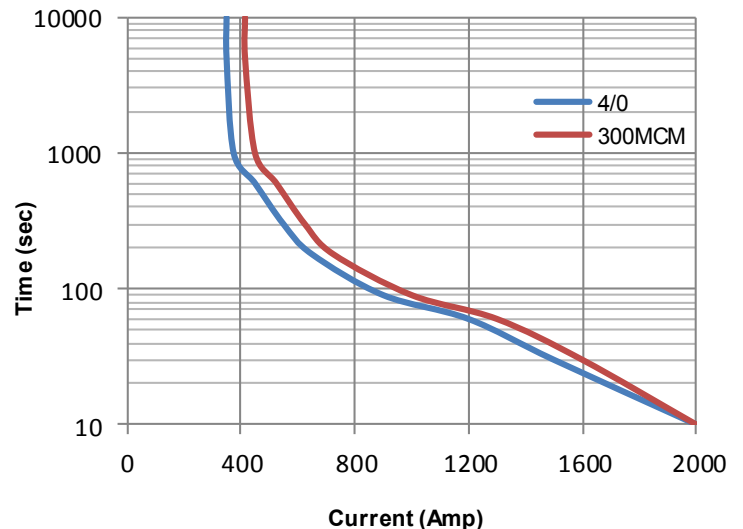


**Key Features**

<b>EPIC® Seal</b>	Ceramic to metal braze. Gas filled hermetic chamber protects key components. Exceeds IP69K standard
<b>Temperature</b>	Tested to temperatures up to 200°C
<b>Contacts / Form</b>	Silver / Bi-stable
<b>Coil</b>	Contacts held magnetically. No coil holding power required.
<b>High Shock and Vibration</b>	For rugged environments, off-road and tracked vehicles
<b>Installation</b>	Not direction sensitive
<b>Made in USA</b>	Designed and manufactured in the USA
<b>Reference</b>	MIL-R-6106, RoHS



**Current Carry vs Time**  
with 85°C terminal temperature rise



**Power Terminals**  
Stainless M10 X 1.5 Bolt  
Stainless M10 X 1.5 Flanged Nut  
  
Torque 14-20 Nm [125-175 in-lb]

**Mounting Hardware**  
M5 [No. 10] Bolts (not incl.)  
  
Torque 2-4 Nm [18-35 in-lb]

**Coil Wire**  
Silicone, 20 AWG, UL: VW-1

**Case Material**  
25% GF Nylon 6/6, UL 94 V-O

Technical Specification	
Continuous Current	400A w/ 300MCM (see graph on reverse)
Max Current—1 sec	3000A
Max Current—10 sec	2000A
Max Current—90 sec	1000A
Contact Voltage Drop (max)	150mV at 400A
Insulation Resistance (min)	100MΩ (50MΩ after life)
Dielectric Withstanding	1500VRMS (1050 VRMS after life)
Operate Time (max)	20 msec (include bounce)
Release Time (max)	12 msec
Weight	1.1 lb with hardware (500 grams)

**MXL14**

**Coil Voltage:**  
*B = 12V*  
*C = 24V*

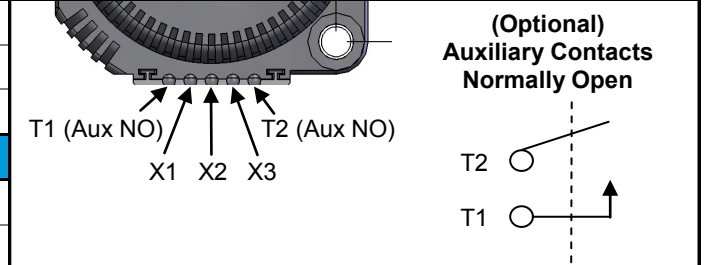
**Aux. Contacts:**  
*Blank = none*  
*B = SPST, NO*

**Drive:**  
*1 = High Side*  
*2 = Low Side*

**Coil Wire:**  
*A = 38 cm (15 in)*  
*B = 61 cm (24 in)*  
*C = 122 cm (48 in)*

Resistive Load Switching	
400A at 24 VDC	100,000 cycles
Mechanical Life	300,000 cycles
Fault Interrupt @ 28VDC	3000A

**Power Circuit and Installation**



Environmental Specifications	
Seal	Hermetic, 10 E-9 atm cc/sec
Temperature Range	-55°C to +100°C
Shock	Sawtooth @ 20G, 11ms, ½ Sine @ 25G, 11ms
Vibration	10-2000 Hz, 20G
Water / Steam	2750 psi waterjet, 105 psi steam, boiling water
Salt Spray Corrosion	MIL-STD-810G
Resistant to corrosion, chemicals, and fungal growth	

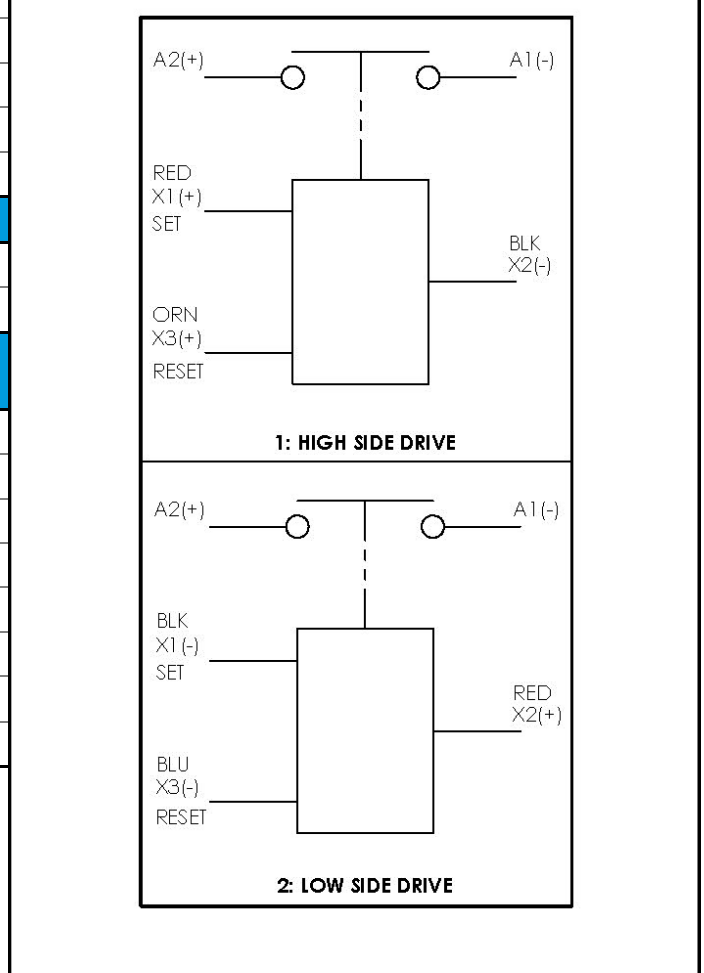
**Auxiliary contacts (optional) - Form A, SPST Normally Open**

Switching Current (max)	1A at 28VDC
Switching Current (min)	0.1mA at 5V

**Coil Ratings at 25°C**  
 \*Contact factory for additional coil voltages

Coil P/N Designation	B	C
Coil Voltage, Nominal	12 VDC	24 VDC
Coil Voltage, Max	16 VDC	32 VDC
Set and Reset Voltage, Max <sup>2,3</sup>	7.5 VDC	15 VDC
Set and Reset Current, Max <sup>2</sup> (75ms)	3.4 A	1.7 A
Coil Back EMF <sup>1</sup>	0 V	
Transients, Max (13ms)	±50 V	
Reverse Polarity	50 V	

**1** Coils are switched internally with a FET, so no fly-back/suppression voltage is seen at the coil inputs.  
**2** Powering the SET and RESET pins at the same time can damage the coil circuit. Care should be taken to prevent this type of dual input.  
**3** Set voltage is voltage required to ensure contacts close. Minimum pulse of 100ms required. Coil pulse limited to <100ms by internal electronics.



Options and Accessories	