

Power Terminals
Stainless M10 X 1.5 Bolt
Stainless M10 X 1.5 Flanged Nut

Torque 14-20 Nm [125-175 in-lb]

Coil Wire Silicone, 20 AWG, UL: VW-1 Mounting Hardware
M5 [No. 10] Bolts (not incl.)

Torque 2-4 Nm [18-35 in-lb]

<u>Case Material</u> 25% GF Nylon 6/6, UL 94 V-O 12V - 48V MXL14

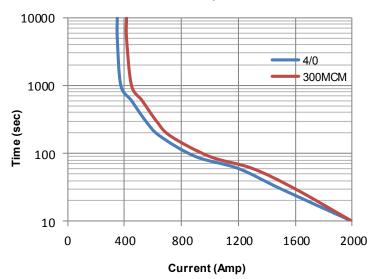
Chassis Mount

Latching 400A Bi-stable contactor



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

Current Carry vs Time with 85°C terminal temperature rise



GIGAVAC®			P.O. Box 4428 Santa Barbara	
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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)		
Resistive Load Switching			
400A at 24 VDC	100,000 cycles		
Mechanical Life	300,000 cycles		
Fault Interrupt @ 28VDC	3000A		

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Environmental Specifications		

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Seal	Hermetic, 10 E-9 atm cc/sec	
Temperature Range	-55°C to +100°C	
Shock	Sawtooth @ 20G, 11ms, 1/2 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

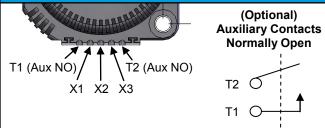
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Coil P/N Designation	В	С
Coil Voltage, Nominal	12 VDC	24 VDC
Coil Voltage, Max	16 VDC	32 VDC
Set and Reset Voltage, Max ^{2,3}	7.5 VDC	15 VDC
Set and Reset Current, Max ² (75ms)	3.4 A	1.7 A
Coil Back EMF ¹	0 V	
Transients, Max (13ms)	±50 V	
Reverse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

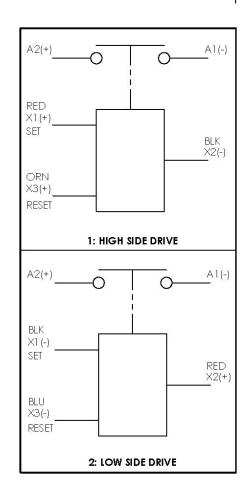
- 1 Coils are switched internally with a FET, so no fly-back/suppression voltage is seen at the coil inputs.
- 2 Powering the SET and RESET pins at the same time can damage the coil circuit. Care should be taken to prevent this type of dual input.
- 3 Set voltage is voltage required to ensure contacts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

MXL14 **Coil Voltage:** Aux. Contacts: B = 12VBlank = none C = 24VB = SPST, NODrive: **Coil Wire:** A = 38 cm (15 in)1 = High Side 2 = Low Side B = 61 cm (24 in)C = 122 cm (48 in)

Ordering Key

Power Circuit and Installation





Options and Accessories		

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