

Power Terminals

Stainless M10 X 1.25 Bolt
Stainless M10 X 1.25 Nut
Stainless Lock Washer
Stainless Flat Washer
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

40-50% GF Nylon 6/6, UL 94 V-O

12V - 48V

MXL14

Chassis Mount

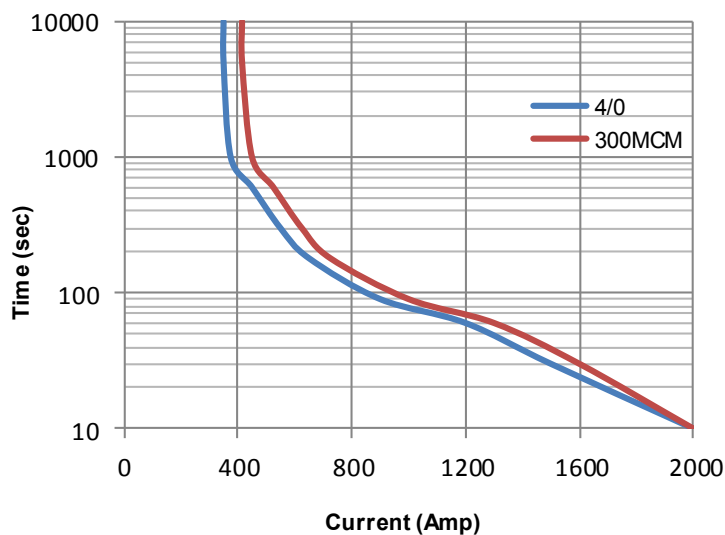
**Latching 400A
Bi-stable contactor**



Key Features

<u>EPIC® Seal</u>	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 / SPST / NO
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**



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Page 1 of 2

MXL14

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 (1050V end of 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

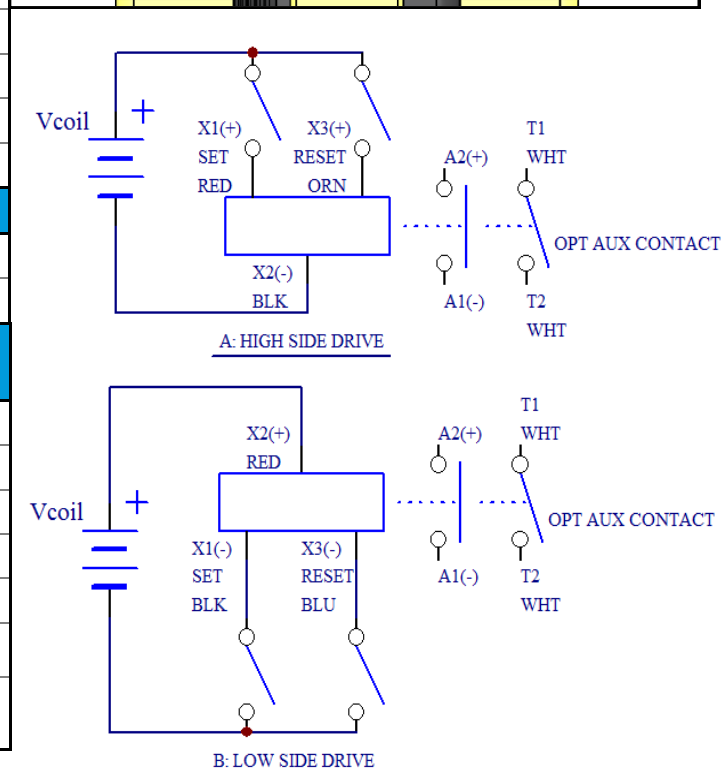
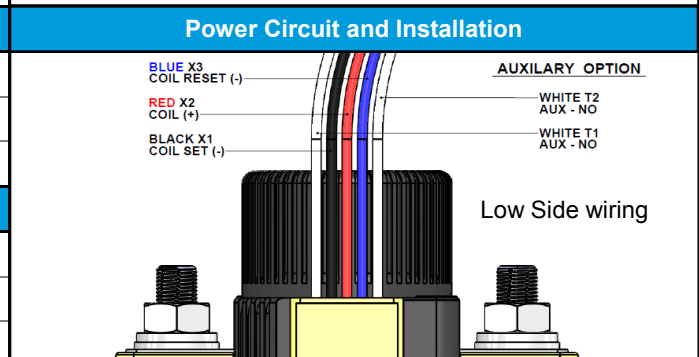
Environmental Specifications	
Seal	Hermetic, 10 E-9 atm cc/sec
Temperature Range	-55°C to +100°C
Shock	Sawtooth @ 20G, 11ms, ½ Sine @ 25G, 11ms
Vibration	10-2000 Hz, 20G
Water / Steam	2750 psi waterjet, 105 psi steam, boiling water
Salt Spray Corrosion	MIL-STD-810G
Resistant to corrosion, chemicals,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

Auxiliary contacts (optional) - Form A, SPST Normally Open	
Switching Current (max)	2A at 28VDC
Switching Current (min)	0.1mA at 5V

Coil Data		
*Contact factory for additional coil voltages		
Coil Part #	B	C
Nominal Voltage	12 VDC	24 VDC
Max Voltage	15 VDC	30VDC
Operate Voltage (max)	7.5 VDC	15 VDC
Operate Current ¹	4.0 A	1.7 A
Coil Power (Watts)	3.6 W	2.88 W

¹ Minimum pulse of 100ms required. Coil pulse limited to <100ms by internal electronics.

Ordering Key	
MXL14 Coil Voltage: <i>B = 12V</i> <i>C = 24V</i> Drive: <i>1 = High Side</i> <i>2 = Low Side</i>	Aux. Contacts: <i>Blank = none</i> <i>B = SPST, NO</i> Coil Wire: <i>A = 38 cm (15 in)</i> <i>B = 61 cm (24 in)</i> <i>C = 122 cm (48 in)</i>



Latching / Bi-stable contactors operate with no coil hold power. The coil is actuated (make and break) by a short impulse and then held in that state magnetically.

This features allows for operation of the contactor with minimal power. It is commonly used for solar application, silent-watch operations or any other application where battery power is critical.

Options and Accessories	

		See Terms of Use for additional information
www.gigavac.com	info@gigavac.com	+805-684-8401
Rev 2	11/8/11	© 2011 GIGAVAC, LLC
		Page 2 of 2 MXL14