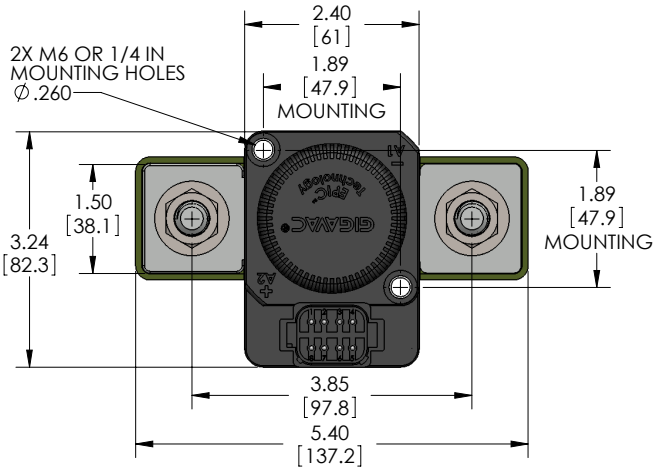
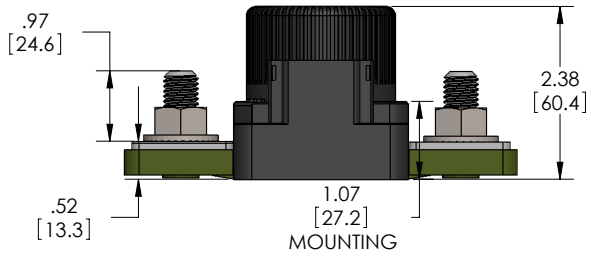
GIGAVAC®
ADVANCED SWITCHING SOLUTIONS

Automatic Low Voltage Disconnect
350+ Amp Voltage Monitoring Latching Contactor

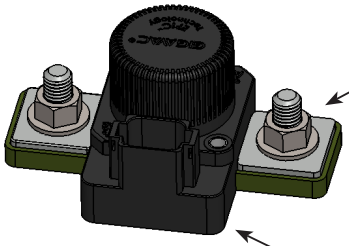
MXSL15
Smart-Tactor™





CASE MATERIAL
DUPONT ZYTEL FR50

3D MODEL AVAILABLE UPON REQUEST

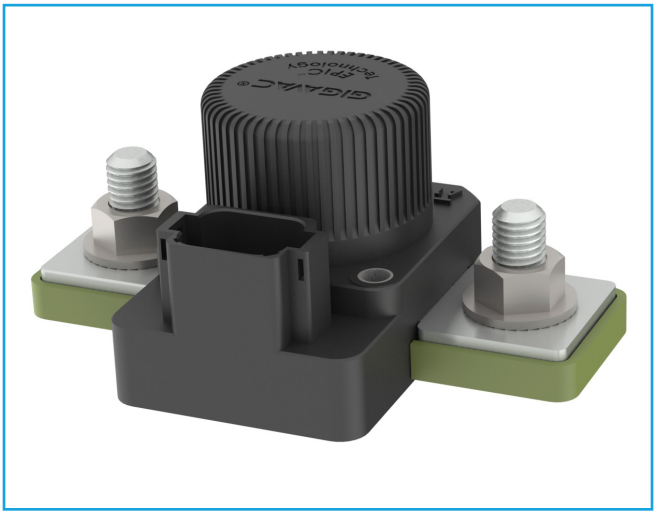


POWER CONNECTION
ZINC PLATED STEEL, M12X1.75 BOLT
STAINLESS M12X1.75 FLANGED NUT

TORQUE 200-300 IN-LB (22-33 Nm)

MATING DEUTSCH CONNECTOR *	
PART NUMBER	**DESCRIPTION**
DT06-08SA	CONNECTOR HOUSING
0462-201-16141	SOCKET
114017	SEALING PLUG
HDT-48-00	RECOMMENDED CRIMPER
W8S	WEDGE

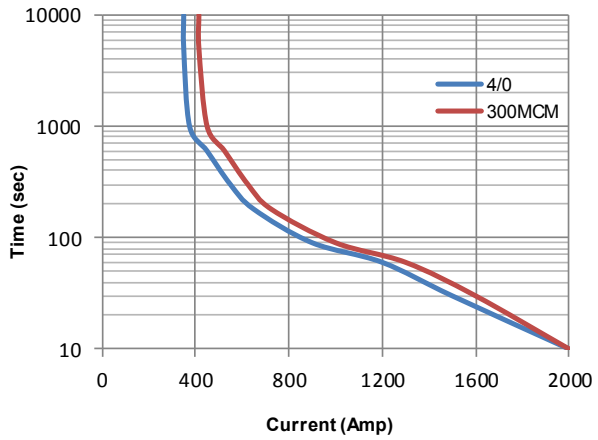
* AVAILABLE AS AN ASSEMBLY (0857-TBD)



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



Coil Ratings *(25ºC, Currents & Power At Nominal V)*

Coil P/N Designation	B	C
Coil Voltage, Nominal	12 VDC	24 VDC
Coil Voltage, Max	16 VDC	32 VDC
OPEN and CLOSE Voltage, Min[2,3]	7.5 VDC	15 VDC
OPEN and CLOSE Current, Min[2] (75ms)	3.4 A	1.7 A
Coil Back EMF[1]	0	
Transient on all pins	±50V	
Reverse polarity on all pins	50V	

1 Coils are switched internally with a FET, so no fly-back/suppression voltage is seen at the coil inputs.
2 OPEN and CLOSE inputs must be momentary switches. If either switch is closed all the time, it will prevent the unit from functioning properly.
3 CLOSE input voltage must have a minimum pulse of 100ms.

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Technical Specification	
Continuous Current	400A w/ 300MCM (see graph)
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 Withstand	1500VRMS (1050 VRMS after life)
Operate Time (max)	20 msec (includes 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	

NOTES:

1. To configure auto shutoff voltage, visit GIGAVAC website for Low Voltage Disconnect Configuration.

2. **How it works:** The LVD is installed between the battery and all loads. If the voltage drops below the setpoint voltage for a predetermined period of time, the LVD will open, disconnecting all loads including the LVD itself, thus protecting the batteries from any further discharge. Once the LVD has opened, the CLOSE pin can be activated forcing the LVD to close, allowing the vehicle/system to be restarted.

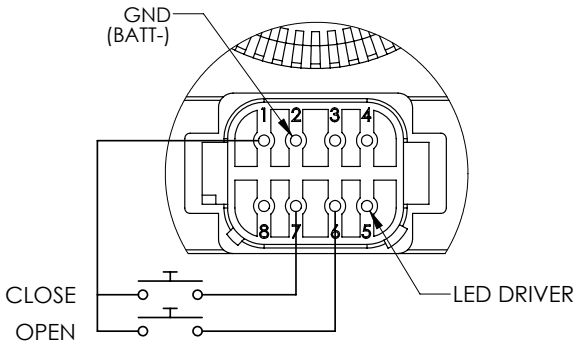
Ordering Key

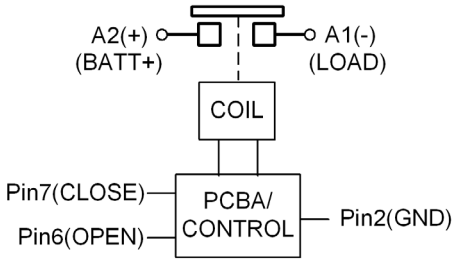
MXSL15 _ E EX: MXSL15CE

COIL VOLTAGE
B=12VDC
C=24VDC

CONNECTOR
E=DEUTSCH DT08 CONNECTOR

Power Circuit and Installation





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