

POWER CONNECTION
ZINC PLATED M12X1.75 BOLT
STAINLESS M12X1.75 NUT
STAINLESS LOCK WASHER
STAINLESS FLAT WASHER

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

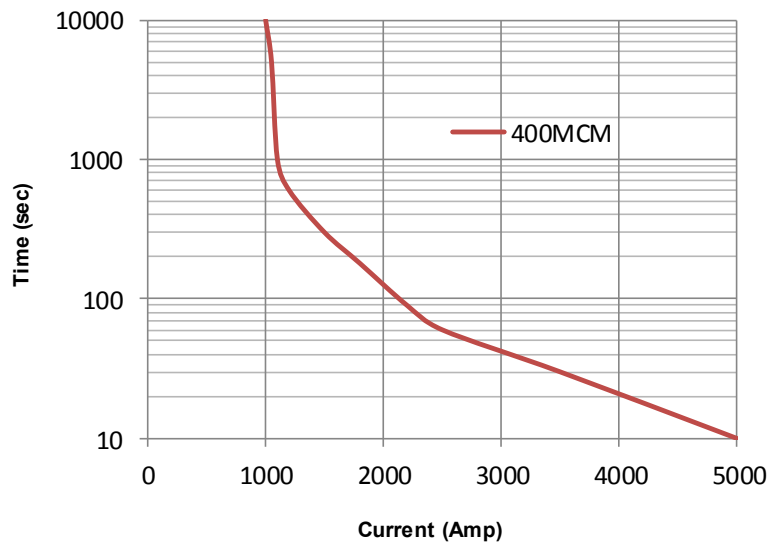
* AVAILABLE AS AN ASSEMBLY [\(0697-1/2\)](#)



Key Features

EPIC® Seal	Ceramic to metal braze. Gas filled hermetic chamber protects key components. Exceeds IP69K standard
Contacts / Form	Silver / SPST / NO
Coil	Efficient two coil design with no PWM or EMI emissions. Coil suppression built in
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



Technical Specification		Ordering Key		
Continuous Current	1000A w/ 400MCM (see graph on reverse)	<div>MX110 _ E _</div> <div>Coil Voltage: B = 12V C = 24V/28V</div> <div>Auxiliary Contacts: Blank = none B = SPST, Normally Open C = SPST, Normally Closed</div>		
Max Current—1 sec	6000A			
Max Current—10 sec	5000A			
Max Current—90 sec	3000A			
Contact Voltage Drop (max)	150mV at 1000A			
Contact Res. @ 1000A	0.15mΩ			
Insulation Resistance (min)	100MΩ (50MΩ after life)			
Dielectric Withstanding	1500VRMS (1050 VRMS after life)	<div>Power Circuit and Installation</div> <div></div>		
Operate Time (max)	20 msec (include bounce)			
Release Time (max)	20 msec			
Weight	3.6 lb (1.6 kg) with nuts and washers			
Resistive Load Switching				
1000A at 24 VDC	40,000 cycles	<div>(Optional) Auxiliary contacts Normally Open</div> <div></div>		
Mechanical Life	300,000 cycles			
Fault Interrupt @ 28VDC	4000A			
Environmental Specifications				
Seal	Hermetic, 10 E-9 atm cc/sec			
Temperature Range	-55°C to +100°C	<div>Pin 1 (-)</div> <div>Pin 2 (+)</div>		
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		<div></div>		
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	<div></div>	
Coil Voltage, Nominal	12 VDC	24 VDC		
Coil Voltage, Max	16 VDC	32 VDC		
Pick-Up Voltage, Max	8.5 VDC	16.5 VDC		
Drop-Out Voltage	0.5 to 5.5 VDC	0.5 to 10 VDC		
Pick-Up Current, Max (250ms)	5.1 A	2.6 A		
Coil Current	1.28 A	0.64 A		
Coil Power	14.5 W	14.5 W		
Coil Back EMF ¹	0V			

¹ Coils are switched internally with a FET, so no fly-back/suppression voltage is seen at the coil inputs.

Options and Accessories		GIGAVAC®		See Terms of Use for additional information	
0696	Mating Deutsch Connector (not assembled)	www.gigavac.com	info@gigavac.com	+805-684-8401	
0697	Mating Deutsch Connector Assembly	Rev 4	6/19/2013	© 2013 GIGAVAC, LLC	Page 2 of 2 MX110