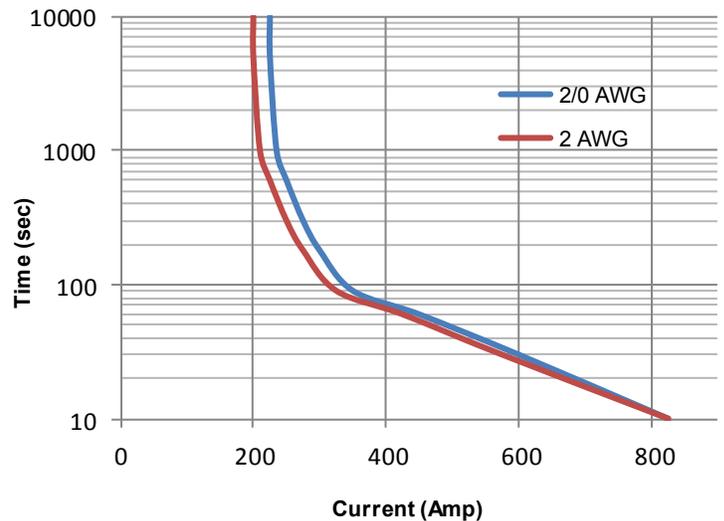


Key Features

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 / SPST / NO
Coil	Optional 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, MS24171

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
M6 [1/4 in] Bolts (not incl.)

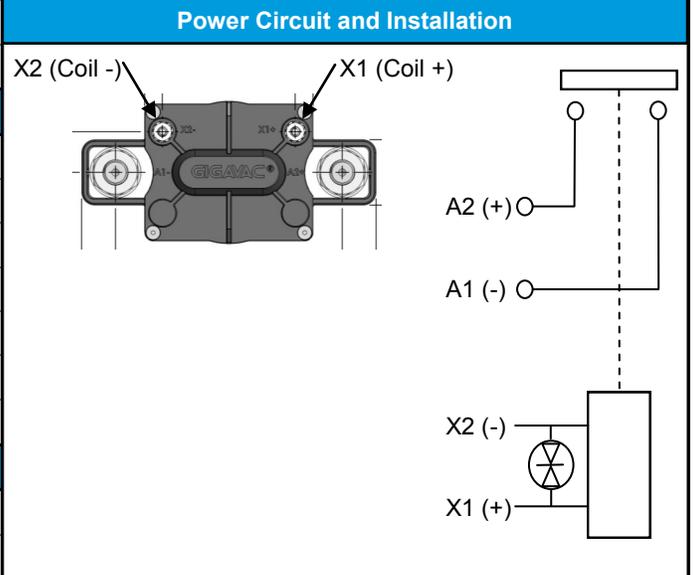
Torque 2-4 Nm [18-35 in-lb]

Coil Termination
M4 Studs

Torque 1.3 Nm [12 in-lb] max

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

Technical Specification		Ordering Key
Continuous Current	200A w/ 2 AWG (see graph on reverse)	<p>MX22 D</p> <p>Coil Voltage: <i>See table</i></p> <p>Coil Termination: <i>D = M4 Studs</i></p>
Max Current—1 sec	1200A	
Max Current—10 sec	800A	
Max Current—90 sec	300A	
Contact Voltage Drop (max)	150mV at 200A	
Insulation Resistance (min)	100MΩ (50MΩ after life)	
Dielectric Withstanding	1500VRMS (1050 VRMS after life)	
Weight	1.2 lb with hardware (550 grams)	
Resistive Load Switching		
200A at 24 VDC	100,000 cycles	
Mechanical Life	300,000 cycles	
Fault Interrupt @ 28VDC	1500A	
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 - N/A		



Coil Ratings at 25°C
* S and T coil are dual coil design, all others are standard coils

Coil P/N Designation	B	C	F	H	J	S*	T*
Coil Voltage, Nominal	12 VDC	24 VDC	48 VDC	72 VDC	120 VDC	12 VDC	24 VDC
Coil Voltage, Max	16 VDC	32 VDC	64 VDC	96 VDC	140 VDC	16 VDC	32 VDC
Pick-Up Voltage, Max	8 VDC	16 VDC	28 VDC	46 VDC	72 VDC	9 VDC	15 VDC
Drop-Out Voltage, Max	3 VDC	7 VDC	10 VDC	14 VDC	18 VDC	4.5 VDC	7 VDC
Drop-Out Voltage, Min	0.5 VDC	0.5 VDC	1.8 VDC	2.7 VDC	4.5 VDC	1 VDC	1.5 VDC
Pick-Up Current, Max (75ms)	N/A	N/A	N/A	N/A	N/A	1.8 A	1 A
Coil Current	0.68 A	0.28 A	0.16 A	0.095 A	0.06 A	0.082 A	0.057 A
Coil Power	8 W	6.8 W	7.6 W	6.8 W	7.2 W	1 W	1.4 W
Operate Time, Max (incl. bounce)	20 msec	20 msec	30 msec	30 msec	20 msec	20 msec	20 msec
Release Time, Max	12 msec	12 msec	12 msec	12 msec	12 msec	12 msec	12 msec
Internal Coil Suppression	Transorb						
Coil Back EMF	55 V	55 V	80 V	115 V	175 V	55 V	55 V
Transients, Max (13ms)	N/A	N/A	N/A	N/A	N/A	±50 V	±50 V
Reverse Polarity	N/A	N/A	N/A	N/A	N/A	16 V	32 V

Options and Accessories	

GIGAVAC [®]		P.O. Box 4428 Santa Barbara, CA 93140
www.gigavac.com	info@gigavac.com	+805-684-8401
Rev 4	9/24/15	© 2014 GIGAVAC, LLC
Page 2 of 2		MX22