

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

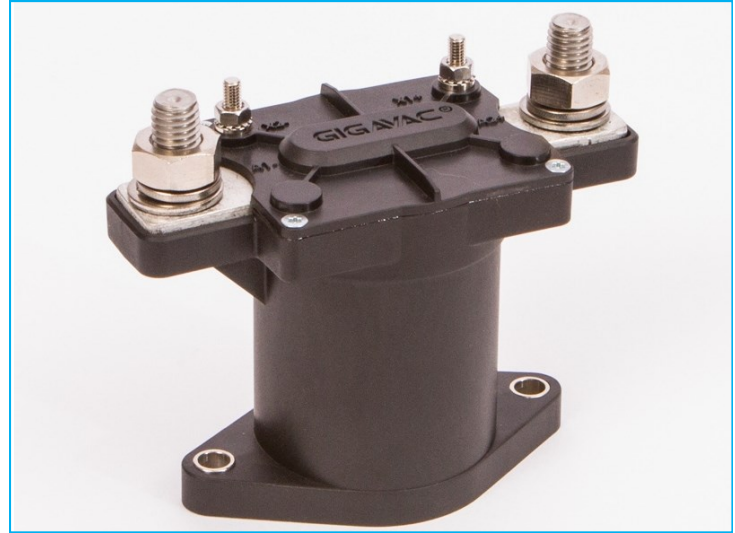
Case Material
25% GF Nylon 6/6, UL 94 V-O

12V - 48V

MX22

Standup Mount

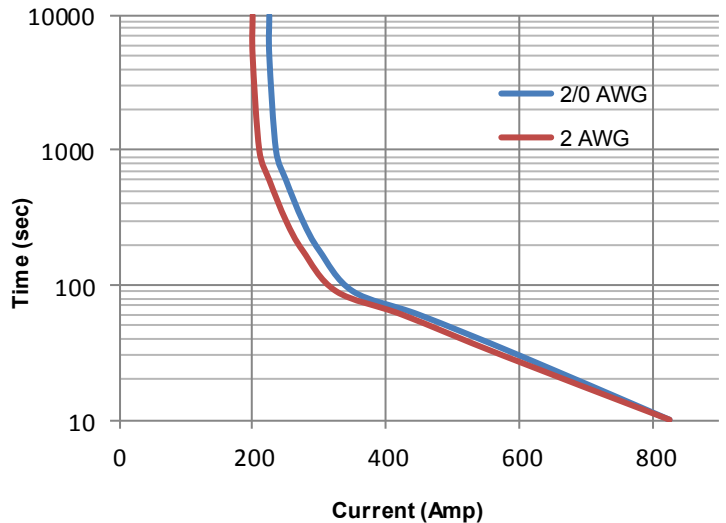
Contactors 200A

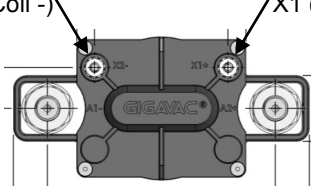
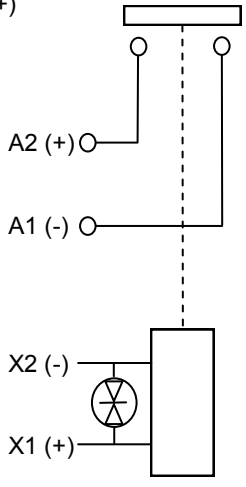


Key Features


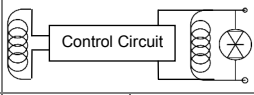
EPIC® Seal	Ceramic to metal braze. Gas filled hermetic chamber protects key components. Exceeds IP69K standard
Temperature	Tested to temperatures up to 200°C
Contacts / Form	Silver / SPST / NO
Coil	Optional efficient two coil design with no PWM or EMI emissions. Coil suppression built in
High Shock and 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



Technical Specification		Ordering Key	
Continuous Current	200A w/ 2 AWG (see graph on reverse)	<p style="text-align: center;">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		Power Circuit and Installation	
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
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