

#### Power Terminals

Stainless M10 X 1.5 Bolt  
Stainless M10 X 1.5 Nut  
Stainless Lock Washer  
Stainless Flat Washer  
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

MX24

Standup Mount

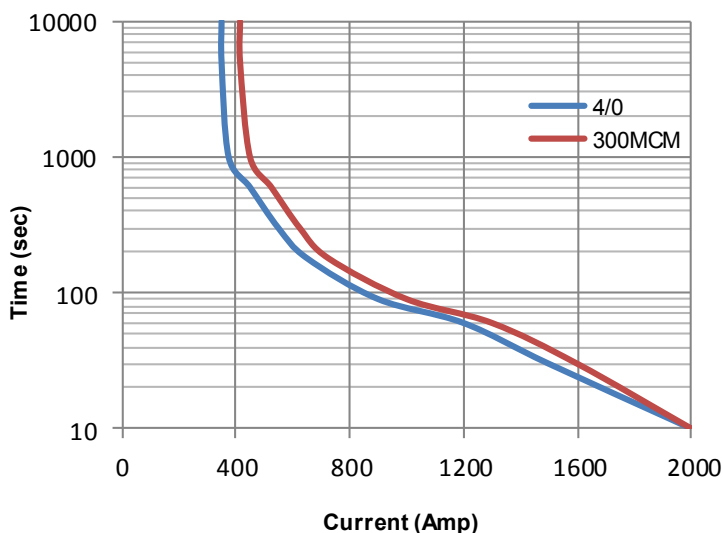
Contactor 400A



#### 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	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, MS24185

Current Carry vs Time  
with 85°C terminal temperature rise

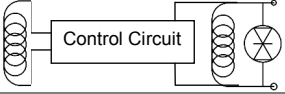


Technical Specification	
Continuous Current	400A w/ 300MCM (see graph on reverse)
Max Current—1 sec	3000A
Max Current—10 sec	2000A
Max Current—90 sec	1000A
Contact Voltage Drop (max)	150mV at 400A
Insulation Resistance (min)	100MΩ (50MΩ after life)
Dielectric Withstanding	1500VRMS (1050 VRMS after life)
Operate Time (max)	20 msec (include bounce)
Release Time (max)	12 msec
Weight	1.2 lb with hardware (550 grams)

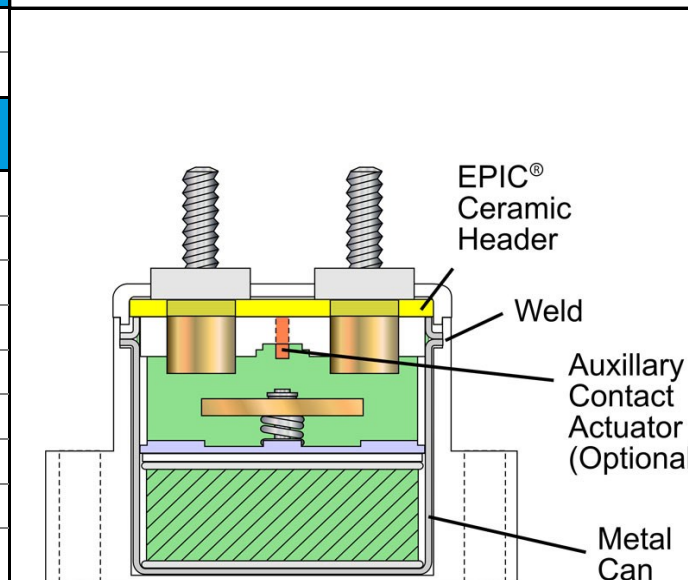
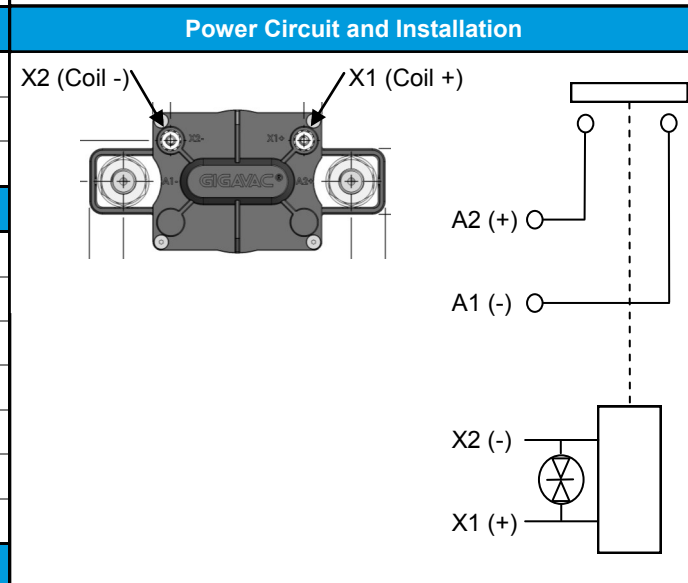
Resistive Load Switching	
400A at 24 VDC	100,000 cycles
Mechanical Life	300,000 cycles
Fault Interrupt @ 28VDC	3000A

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 - N/A	

Coil Ratings at 25°C *Contact factory for additional coil voltages			
Coil P/N Designation	B	C	F
Coil Voltage, Nominal	12 VDC	24 VDC	48 VDC
Coil Voltage, Max	16 VDC	32 VDC	64 VDC
Pick-Up Voltage, Max	8 VDC	16 VDC	40 VDC
Drop-Out Voltage	0.5 to 4 VDC	2 to 7.5 VDC	4 to 15 VDC
Pick-Up Current, Max (75ms)	3.9 A	1.6 A	0.97 A
Coil Current	0.23 A	0.097 A	0.042 A
Coil Power	2.8 W	2.3 W	2 W
Internal Coil Suppression	Transorb 		
Coil Back EMF	55 V		125 V
Transients, Max (13ms)	±50 V		±75 V
Reverse Polarity	16 V	32 V	64 V

Ordering Key
<p><b>MX24</b>      <b>D</b></p> <p>Coil Voltage:  <b>B = 12V</b>  <b>C = 24V</b>  <b>F = 48V</b></p> <p>Coil Termination:  <b>D = M4 Studs</b></p>



Green indicates area within the enclosure

Options and Accessories	

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