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Power Terminals M12 Hardware

Torque 23-34 Nm [200-300 in-lb]

**Coil/Auxiliary Terminals** 18-8 Stainless Steel Hardware M4x.7 6mm Phillips Machine Screw Internal-Tooth Washer

Torque .75 Nm [6.6 in-lb] max

Mounting Hardware M8 [5/16 in] Bolts (not incl.) Torque 2-4 Nm [18-35 in-lb]

Case Material 25% GF Nylon 6/6, UL 94 V-O 12V - 48V

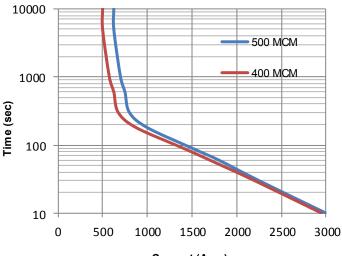
**MX46** 

Bottom Mount Contactor 600A



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	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



Current (Amp)

GIGAVAC®			P.O. Box 4428 Santa Barbara, CA 93140	
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Continuous Current	Technical Specification			Ordering Key	
Continuous Current	600A w/ 500MCN	/I (see graph on	reverse)		
Max Current—1 sec	4000A			MX46_ D	
Max Current—10 sec	3000A				
Max Current—90 sec	1500A			Cail Valtaga	
Contact Voltage Drop (max)	150mV at 600A			Coil Voltage: B = 12V C = 24V F = 48V Auxiliary Contacts:	
Insulation Resistance (min)	100MΩ (50MΩ at	fter life)			
Dielectric Withstanding	1500VRMS (1050	0 VRMS after life	e)		
Operate Time (max)	20 msec (include	bounce)			
Release Time (max)	12 msec			Blank = none B = SPST, Normally Open	
Weight	2.1 lb (950 grams	s)			
Resi	stive Load Swite	ching		Power Circuit and Installation	
600A at 24 VDC	100,000 cycles			X1 X2	
Mechanical Life	300,000 cycles				
Fault Interrupt @ 28VDC	4000A			T1 (Aux NO) T2 (Aux NO)	
Enviro	nmental Specific	cations		X1 (Coil +) X2 (Coil -) A2 (+) O	
Seal	Hermetic, 10 E-9	atm cc/sec			
Temperature Range	-55°C to +90°C			(Optional) Auxiliary contacts A1 (-) O	
Shock	Sawtooth @ 20G	i, 11ms, ½ Sine	@ 25G, 11ms		
Vibration	10-2000 Hz, 20G	i			
Water / Steam	2750 psi waterjet	, 105 psi steam,	boiling water	T1 0 X2 (-)	
Salt Spray Corrosion	MIL-STD-810G				
Resistant to corrosion, chemic	als, and fungal g	rowth		X1 (+)	
Auxiliary contacts (op	tional) - Form A	, SPST Normall	y Open		
Switching Current (max)	1A at 28VDC				
Switching Current (min)	0.1mA at 5V				
	oil Ratings at 25 bry for additiona				
Coil P/N Designation	В	С	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	30 VDC		
Dropout Voltage	0.5 to 4.5 VDC	0.5 to 7.5 VDC	2 to 15 VDC		
Pick-Up Current, Max (75ms)	3.8 A	1.9 A	0.9 A		
Coil Current	0.64 A	0.32 A	0.16 A		
Coil Power	7.8 W	7.8 W	7.8 W		
Internal Coil Suppression	Transorb	Control Circuit			
Coil Back EMF	55 V 125 V				
Transients, Max (13ms)	±50 V ±75 V		±75 V		
	+				

Options and Accessories				

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