

**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

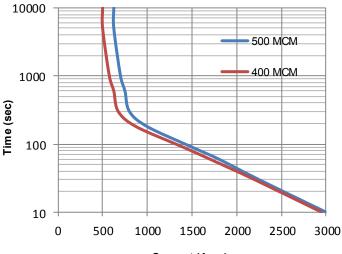
**MX46** 

**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)

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Tec	hnical Specifica	ition		Ordering Key	
Continuous Current	600A w/ 500MC	√ (see graph on	reverse)		
Max Current—1 sec	4000A			MX46 D	
Max Current—10 sec	3000A				
Max Current—90 sec	1500A			Coil Voltage:	
Contact Voltage Drop (max)	150mV at 600A			B = 12V	
Insulation Resistance (min)	100MΩ (50MΩ a	fter life)		C = 24V	
Dielectric Withstanding	1500VRMS (105	0 VRMS after life	e)	F = 48V Auxiliary Contacts: Blank = none B = SPST, Normally Open	
Operate Time (max)	20 msec (include	e bounce)			
Release Time (max)	12 msec				
Weight	2.1 lb (950 gram	S)			
Resi	stive Load Swite	ching		Power Circuit and Installation	
600A at 24 VDC	100,000 cycles				
Mechanical Life	300,000 cycles			<b>Élélélé</b> († 1	
Fault Interrupt @ 28VDC	4000A			T1 (Aux NO) T2 (Aux NO)	
Enviro	onmental Specifications			X1 (Coil +) X2 (Coil -)	
Seal	Hermetic, 10 E-9 atm cc/sec				
Temperature Range	-55°C to +90°C			(Optional) Auxiliary contacts A1 (-) O Normally Open	
Shock	Sawtooth @ 200	6, 11ms, ½ Sine	@ 25G, 11ms		
Vibration	10-2000 Hz, 20G			T2 0	
Water / Steam	2750 psi waterjet, 105 psi steam, boiling water			T1 0 X2 (-)	
Salt Spray Corrosion	MIL-STD-810G				
Resistant to corrosion, chemic	ant to corrosion, chemicals, and fungal growth			' X1 (+)	
Auxiliary contacts (op	otional) - Form A	, SPST Normal	ly Open		
Switching Current (max)	1A at 28VDC				
Switching Current (min)	0.1mA at 5V				
C *Contact factor	oil Ratings at 25 ory for additiona	°C Il coil voltages			
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		125 V		
Transients, Max (13ms)	±50	D V	±75 V		
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Options and Accessories		
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