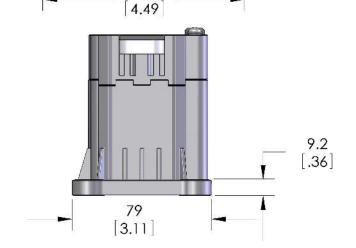


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Power Terminals M12 Hardware

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

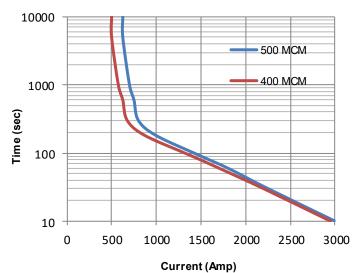
12V - 48V MX46

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		
Reference	MIL-R-6106, RoHS		

Current Carry vs Time with 85°C terminal temperature rise



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Technical Specification				
Continuous Current	600A w/ 500MCM (see graph on reverse)			
Max Current—1 sec	4000A			
Max Current—10 sec	3000A			
Max Current—90 sec	1500A			
Contact Voltage Drop (max)	150mV at 600A			
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	2.1 lb (950 grams)			
Res	istive Load Switching			
600A at 24 VDC	100,000 cycles			

Ordering Key
MX46_ D
Coil Voltage: B = 12V C = 24V F = 48V
Auxiliary Contacts: / Blank = none B = SPST, Normally Open

Power Circuit and Installation

T2 (Aux NO)

X2 (Coil -)

A2 (+) O

A1 (-) O-

X1

(Optional) Auxiliary contacts Normally Open

T1 (Aux NO)

T2 0

X1 (Coil +)

600A at 24 VDC	100,000 cycles		
Mechanical Life	300,000 cycles		
Fault Interrupt @ 28VDC	4000A		
Environmental Specifications			
Seal	Hermetic, 10 E-9 atm cc/sec		
Temperature Range	-55°C to +90°C		
Shock	Sawtooth @ 20G, 11ms, 1/2 Sine @ 25G, 11ms		
Vibration	10-2000 Hz, 20G		
Water / Steam	2750 psi wateriet 105 psi steam, hoiling water		

Water / Steam 2750 psi waterjet, 105 psi steam, boiling water MIL-STD-810G Salt Spray Corrosion

Resistant to corrosion, chemicals, and fungal growth

Auxiliary contacts (optional) - Form A, SPST Normally Open			
Switching Current (max)	1A at 28VDC		
Switching Current (min)	0.1mA at 5V		

Coil Ratings at 25°C

*Contact factory for additional 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	
Transients, Max (13ms)	±50 V		±75 V	
Reverse Polarity	16 V 32 V		64 V	



Options and Accessories			

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