

2X 28.8

46

1.81

2X Ø6.6

.26]

2x

[1.14]

2X

54.1

2.13

135.9

[5.35]

62

[2.44]

A

 \oplus

12V - 48V

Side Mount

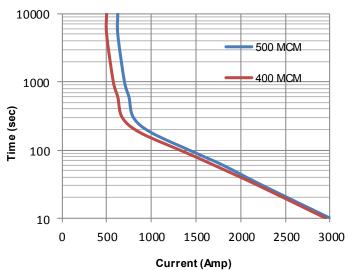
Contactor 600A

MX56

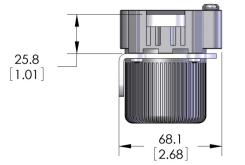


Key Features	
EPIC® Seal	Ceramic to metal braze. Gas filled hermetic chamber protects key components. Exceeds IP69K standard
Temperature	Tested to temperatures up to 200°C
Contacts / Form	Silver / SPST / NO
Coil	Efficient two coil design with no PWM or EMI emissions. Coil suppression built in
High Shock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





GIGAVAC®			P.O. Box 4428 Santa Barbara	, CA 93140
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Rev 3	12/29/14	© 2013 GIGAVAC, LLC	Dere 1 of 0	MX56



Power Terminals M12 Hardware

2X 8

[.32]

78.5

[3.09]

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

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

Torque .75 Nm [6.6 in-lb] max

<u>Mounting Hardware</u> M6 [1/4 in] Bolts (not incl.) Torque 2-4 Nm [18-35 in-lb]

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

Technical Specification			Ordering Key		
Continuous Current	600A w/ 500MCM	A (see graph on	reverse)		
Max Current—1 sec	4000A			MX56 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	bounce)			
Release Time (max)	12 msec				
Weight	1.7 lb (770 grams	s)			
Resi	stive Load Swite	ching		Power Circuit and Installation	
600A at 24 VDC	100,000 cycles				
Mechanical Life	300,000 cycles			HÉRÉRÉ P	
Fault Interrupt @ 28VDC	4000A			T1 (Aux NO)	
Environmental Specifications			A2 (+) O 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 @ 20G, 11ms, 1/2 Sine @ 25G, 11ms		@ 25G, 11ms	Normany Open	
Vibration	10-2000 Hz, 20G				
Water / Steam	2750 psi waterjet, 105 psi steam, boiling water		, boiling water	▲ X2 (-)	
Salt Spray Corrosion	MIL-STD-810G				
Resistant to corrosion, chemi	cals, and fungal g	rowth		X1 (+)	
Auxiliary contacts (or	otional) - Form A	, SPST Normal	ly Open		
Switching Current (max)	1A at 28VDC				
Switching Current (min)	0.1mA at 5V				
	oil Ratings at 25 ory 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		
Drop-Out 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 V ±75 V		±75 V		
-	16 V	32 V	64 V		

Options and Accessories			

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Rev 3	12/29/14	© 2013 GIGAVAC, LLC	Page 2 of 2	MX56