

Power Terminals Stainless M10 X 1.5 Stud Stainless M10 X 1.5 Flanged Nut

Torque 9-10 Nm [80-90 in-lb]

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

Torque 2-4 Nm [18-35 in-lb]

12V - 48V

Side Mount

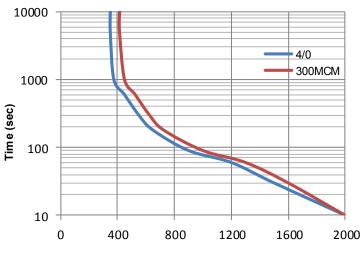
Contactor 400A

MX54



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)

GIG	P.O. Box 4428 Santa Barbara, CA 93140		
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Technical Specification				Ordering Key	
Continuous Current	400A w/ 300MCN	/I (see graph on	reverse)		
Max Current—1 sec	3000A			MX54 D	
Max Current—10 sec	2000A				
Max Current—90 sec	1000A				
Contact Voltage Drop (max)	150mV at 400A			Coil Voltage:	
Insulation Resistance (min)	100MΩ (50MΩ at	fter life)		C = 24V	
Dielectric Withstanding	1500VRMS (105	0 VRMS after life	e)	F = 48V	
Operate Time (max)	20 msec (include	bounce)		Auxiliary Contacts:	
Release Time (max)	12 msec			B = SPST, Normally Open	
Weight	1.1 lb with hardw	are (500 grams))		
Resi	stive Load Swite	ching		Power Circuit and Installation	
400A at 24 VDC	100,000 cycles				
Mechanical Life	300,000 cycles				
Fault Interrupt @ 28VDC	3000A			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 +100°C			(Optional) Auxiliary contacts A1 (-) O	
Shock	Sawtooth @ 20G, 11ms, ½ Sine @ 25G, 11ms		@ 25G, 11ms		
Vibration	10-2000 Hz, 20G			T2 0	
Water / Steam	2750 psi waterjet, 105 psi steam, boiling water			T1 O X2 (-)	
Salt Spray Corrosion	MIL-STD-810G				
Resistant to corrosion, chemic	cals, and fungal g	rowth		X1 (+)	
Auxiliary contacts (or	otional) - Form A	, SPST Normall	ly Open		
Switching Current (max)	1A at 28VDC				
Switching Current (min)	0.1mA at 5V			○ 注 ▲ 長	
C *Contact fact	oil Ratings at 25 ory for additiona	°C I 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	40 VDC	X1 X2	
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	IIIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
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	Control Circuit		Mullin	
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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