

<u>Power Terminals</u> Stainless M10 X 1.5 Bolt Stainless M10 X 1.5 Flanged Nut

Torque 14-20 Nm [125-175 in-lb]

Coil Wire Silicone, 20 AWG, UL: VW-1

Mounting Hardware M5 [No. 10] Bolts (not incl.)

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

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

12V - 48V

Chassis Mount

Contactor 200A

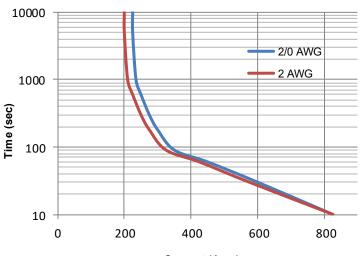
MX12



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	Optional 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



Current (Amp)

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Technical Specification				Ordering Key					
Continuous Current 200A w/ 2 AWG (see graph on reverse)									
Max Current—1 sec	1200A				MX12				
Max Current—10 sec	800A				141/	\IZ 7			
Max Current—90 sec	300A								
Contact Voltage Drop (max)				Coil Voltage: Auxiliary Contacts: See table Blank = none				acts:	
Insulation Resistance (min)	100MΩ (50M	Ω after life)						PST, Norma	ally Open
Dielectric Withstanding	1500VRMS (1050 VRMS	after life)						
Weight	1.1 lb with ha	rdware (500	grams)		Coil Wire: / A = 38 cm (15 in)				
Res	istive Load S	witching				1 cm (15 in)			
200A at 24 VDC	100,000 cycle	es			C = 122 cm (48 in)				
Mechanical Life	300,000 cycle	es				Power Circ	uit and Inst	allation	
Fault Interrupt @ 28VDC	1500A				- Man	Alexander and			
Envir	onmental Spe	cifications			SE.	Call and a second	<u> </u>		$\overline{\gamma}$
Seal	Hermetic, 10	E-9 atm cc/s	sec		T1 (Aux NO)		Aux NO)		
Temperature Range	-55°C to +10	D°C			X1 (Coil +	' <u>\</u>	, 	2 (+) O	
Shock	Sawtooth @	20G, 11ms,	1/2 Sine @ 28	5G, 11ms					
Vibration	10-2000 Hz,	20G					A	.1 (-) O	
Water / Steam	2750 psi waterjet, 105 psi steam, boiling water			(Optional) Auxiliary contacts					
Salt Spray Corrosion MIL-STD-810G Normally Open									
Resistant to corrosion, chem	Resistant to corrosion, chemicals, and fungal growth X2 (-)					-			
Auxiliary contacts (optional) - Form A, SPST Normally Open				\bigotimes					
Switching Current (max)	1A at 28VDC				T1		Х	(1 (+)	-
Switching Current (min)	0.1mA at 5V					i			
			Coil Ra	atings at 2	5°C				
	* S ai	nd T coil are	e dual coil d	esign, all o	others are sta	ndard coils		1	
Coil P/N Designation	В	С	F	н	J	К	L	S *	T *
Coil Voltage, Nominal	12 VDC	24 VDC	48 VDC	72 VDC	120 VDC	120 VAC, 50/60Hz	240 VAC, 50/60Hz	12 VDC	24 VDC
Coil Voltage, Max	16 VDC	32 VDC	64 VDC	96 VDC	140 VDC	140 VAC	280 VAC	16 VDC	32 VDC
Pick-Up Voltage, Max	8 VDC	16 VDC	28 VDC	46 VDC	72 VDC	80 VAC	160 VAC	9 VDC	15 VDC
Drop-Out Voltage, Max	3 VDC	7 VDC	10 VDC	14 VDC	18 VDC	30 VAC	60 VAC	4.5 VDC	7 VDC
Drop-Out Voltage, Min	0.5 VDC	0.5 VDC	1.8 VDC	2.7 VDC	4.5 VDC	4.5 VAC	9 VAC	1 VDC	1.5 VDC
Pick-Up Current, Max (75ms)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.8 A	1 A
Coil Current	0.68 A	0.28 A	0.16 A	0.095 A	0.06 A	0.06 A	0.04 A	0.082 A	0.057 A
Coil Power	8 W	6.8 W	7.6 W	6.8 W	7.2 W	7.2 W	9.6 W	1 W	1.4 W
Operate Time, Max (incl. bounce)	20 msec	20 msec	30 msec	30 msec	20 msec	30 msec	30 msec	20 msec	20 msec
Release Time, Max Internal Coil Suppression	12 msec Transorb	12 msec	12 msec	12 msec	12 msec	50 msec	55 msec	12 msec	12 msec
					ircuit				
Coil Back EMF	55 V	55 V	80 V	115 V	175 V	N/A	N/A	55 V	55 V
Transients, Max (13ms)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	±50 V	±50 V
Reverse Polarity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16 V	32 V

Options and Accessories	

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