

Power Terminals
Stainless M8 X 1.25 Stud
Stainless M8 X 1.25 Flanged Nut

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

<u>Coil Wire</u> Silicone, 20 AWG, UL: VW-1 Mounting Hardware
M5 [No. 10] Bolts (not incl.)

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

<u>Case Material</u> 25% GF Nylon 6/6, UL 94 V-O 12V - 48V

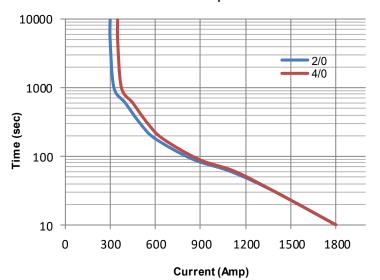
Standup Mount | Contactor



300A

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



GIGAVAC®		P.O. Box 4428 Santa Barbara, CA 93140		
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Technical Specification			
Continuous Current	300A w/ 2/0 cable (see graph on reverse)		
Max Current—1 sec	3000A		
Max Current—10 sec	1800A		
Max Current—90 sec	850A		
Contact Voltage Drop (max)	150mV at 300A		
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	1.0 lb with hardware (460 grams)		
Res	Resistive Load Switching		
300A at 24 VDC	100,000 cycles		

Ordering Key				
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Coil Voltage:  B = 12V C = 24V F = 48V  Auxiliary Contacts:  Blank = none B = SPST, Normally Open				
Coil Wire:  A = 38 cm (15 in)  B = 61 cm (24 in)  C = 122 cm (48 in)				
Power Circuit and Installation				

Resistive Load Switching		
300A at 24 VDC	100,000 cycles	
Mechanical Life	300,000 cycles	
Fault Interrupt @ 28VDC	3000A	

Environmental Specifications			
Seal	Hermetic, 10 E-9 atm cc/sec		
Temperature Range	-55°C to +100°C		
Shock	Sawtooth @ 20G, 11ms, ½ Sine @ 25G, 11ms		
Vibration	10-2000 Hz, 20G		
Water / Steam	2750 psi waterjet, 105 psi steam, boiling water		
Salt Spray Corrosion	MIL-STD-810G		

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Resistant to corrosion, chemicals, and fungal growth		

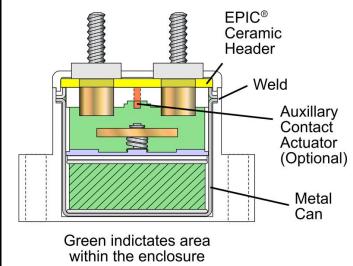
## A2 (+) O T2 (Aux NO) T1 (Aux NO) X2 (Coil -) Black wire X1 (Coil +) Red Wire A1 (-) O-(Optional) Auxiliary contacts Normally Open X1 (+)

## 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 vo	ltages			

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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	
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	
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			
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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