

<u>Power Terminals</u> 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

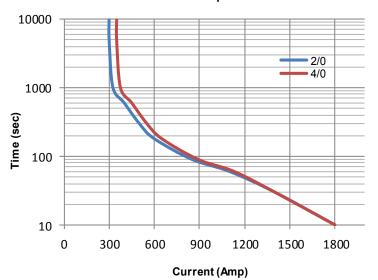
Contactor

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 |
| Made in USA | Designed and manufactured in the USA |
| Reference | MIL-R-6106, RoHS |

Current Carry vs Time with 85°C terminal temperature rise



| PIK-AS Austria GmbH - Elektrotechnische Fabrikate - | | AT-7433 Maria | sdorf 140a | |
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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) | | |
| Resistive Load Switching | | | |
| 300A at 24 VDC | 100 000 cycles | | |

| Ordering Key |
|----------------------------------------------------------------------|
| MX23 Coil Voltage: Auxiliary Contacts: |
| B = 12V Blank = none C = 24V B = SPST, Normally Open F = 48V |
| Coil Wire: A = 38 cm (15 in) B = 61 cm (24 in) C = 122 cm (48 in) |
| Power Circuit and Installation |

T1 (Aux NO)

X1 (Coil +) Red Wire

T2 (Aux NO)

X2 (Coil -) Black wire

(Optional) Auxiliary contacts Normally Open A2 (+) O

A1 (-) O-

X1 (+)

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

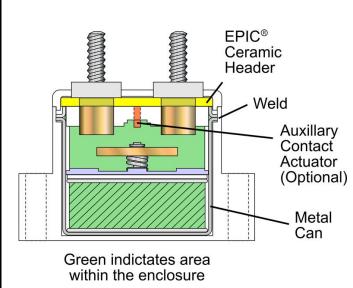
| Environmental Specifications | | | |
|------------------------------|-------------------------------------------------|--|--|
| Seal | Hermetic, 10 E-9 atm cc/sec | | |
| Temperature Range | -55°C to +100°C | | |
| Shock | Sawtooth @ 20G, 11ms, ½ Sine @ 25G, 11ms | | |
| Vibration | 10-2000 Hz, 20G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

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 | 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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