

TORQUE 200-300 IN-LB (22-33 Nm)

| MATING DEUTSCH CONNECTOR * |                        |  |  |
|----------------------------|------------------------|--|--|
| PART NUMBER                | DESCRIPTION            |  |  |
| DT06-08SA                  | CONNECTOR HOUSING      |  |  |
| 0462-201-16141             | SOCKET                 |  |  |
| 114017                     | SEALING PLUG           |  |  |
| HDT-48-00                  | RECOMMENDED<br>CRIMPER |  |  |
| W8S                        | WEDGE                  |  |  |

<sup>\*</sup> AVAILABLE AS AN ASSEMBLY (0697-1/2)

12V - 48V

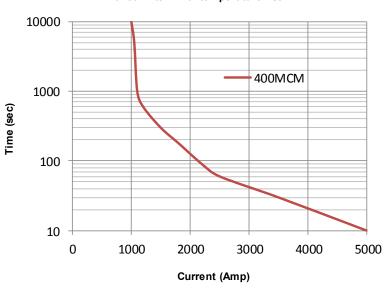
Chassis Mount Contactor 1000A

**MX110** 



| Key Features                |   |  |  |
|-----------------------------|---|--|--|
| EPIC® Seal                  | Ceramic to metal braze. Gas filled<br>hermetic chamber protects key<br>components. Exceeds IP69K standard |  |  |
| Contacts / Form             | Silver / SPST / NO  |  |  |
| Coil                        | Efficient two coil design with no PWM or EMI emissions. Coil suppression built in                         |  |  |
| High Shock<br>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



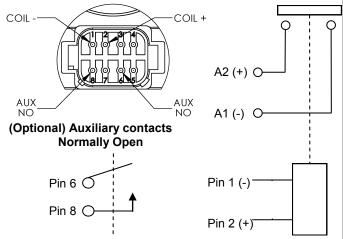
| P <b>IK-AS Austria GmbH</b> - Elektrotechnische Fabrikate - |         | AT-7433 Mariasdorf  |               |       |
|---|---------|---------------------|---------------|-------|
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| Te   | chr   | ical Specification        |                   |   |
|--|---|---------------------------|-------------------|---|
| Continuous Current   | 10  | 00A w/ 400MCM (see        | graph on reverse) |   |
| Max Current—1 sec  | 60  | 00A                       |                   |   |
| Max Current—10 sec   | 50  | 00A                       |                   |   |
| Max Current—90 sec   | 30  | 00A                       |                   |   |
| Contact Voltage Drop (max)   | 15  | 0mV at 1000A              |                   |   |
| Contact Res. @ 1000A   | 0.1   | 15mΩ                      |                   |   |
| Insulation Resistance (min)  | 10  | 0MΩ (50MΩ after life)     |                   |   |
| Dielectric Withstanding  | 15  | 00VRMS (1050 VRMS         | after life)       |   |
| Operate Time (max)   | 20  | msec (include bounce      | ·)                |   |
| Release Time (max)   | 20  | msec                      |                   |   |
| Weight   | 3.6   | 6 lb (1.6 kg) with nuts a | and washers       |   |
| Res  | isti  | ve Load Switching         |                   |   |
| 1000A at 24 VDC  | 40  | ,000 cycles               |                   |   |
| Mechanical Life  | 30  | 0,000 cycles              |                   |   |
| Fault Interrupt @ 28VDC  | 40  | 00A                       |                   |   |
| Enviro   | onn   | nental Specifications     |                   |   |
| Seal   | Нє  | ermetic, 10 E-9 atm cc/   | sec               | ا |
| 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   | ion MIL-STD-810G                                |                           |                   |   |
| Resistant to corrosion, chemi                                      | ical  | s, and fungal growth      |                   |   |
| Auxiliary contacts (o  | ptic  | onal) - 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                 |   |
| Coil Voltage, Nominal  |   | 12 VDC                    | 24 VDC            |   |
| Coil Voltage, Max  |   | 16 VDC                    | 32 VDC            |   |
|  |   |                           |                   |   |

| MX110_E_                           |
|------------------------------------|
| Coil Voltage:  B = 12V C = 24V/28V |
| Auxiliary Contacts: /              |
| B = SPST, Normally Open            |
| C = SPST, Normally Closed          |

## Power Circuit and Installation

**Ordering Key** 





| 1 Coils are switched internally with a FET, so no fly-back/suppression voltage is seen |
|--|
| at the coil inputs.  |

8.5 VDC

0.5 to 5.5 VDC

5.1 A

1.28 A

14.5 W

0V

16.5 VDC

0.5 to 10 VDC

2.6 A

0.64 A

14.5 W

Pick-Up Voltage, Max

Pick-Up Current, Max (250ms)

Drop-Out Voltage

Coil Current

Coil Power

Coil Back EMF1

| Options and Accessories |  |  |  |
|-------------------------|--|--|--|
| <u>0696</u>             | Mating Deutsch Connector (not assembled) |  |  |
| 0697                    | Mating Deutsch Connector Assembly        |  |  |

| PIK-AS Austria GmbH - Elektrotechnische Fabrikate - |         | AT-7433 Mariasdof   |               |       |
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