Remote Power Controllers
Up to 200 Amps • Form X
Magnetic Latching
For DC only applications

SPECIFICATIONS

GENERAL

Contact Arrangement ......................... SPST (1 Form X)
Weight ..................................................... 15 oz max.

Designed to meet the requirements of MIL-C-83383

PERFORMANCE

Contact Ratings (Note 1):

Power Contacts:
- All loads .................. Up to 200 Amps @ 28 VDC
- Current Trip Points: 1,000% of Rated Current .......... 1.0 Sec. max.
- 400% of Rated Current ............ 10.0 Sec. max.
- 200% of Rated Current .......... 60.0 Sec. max.
- 138% of Rated Current ............ 1.0 Hour max.
- Up to 115% of Rated Current ........ No Trip

Contact Bounce Time: 2 ms max

Tolerances:
- Current ............................................. ±10%
- Time .................................................. ±10%

Auxiliary Contacts:
- Configuration ......................... SPDT
- Current Rating ......................... 5 Amps @ 28 VDC

Life ........................................ 50,000 cycles @ rated Res. and Ind. load
- 25,000 cycles @ rated Motor load
- 100,000 cycles mechanical

Rupture (main contacts) ...................... 3600 Amperes

Response Time: ..................................... 12 ms nom.

Contact Voltage Drop:
- Initial ........................................ 225 mv @ Rated Current
- End of Life .................................... 250 mv @ Rated Current

Operating Voltage:
- Nominal DC Voltage ......................... 18 to 32 VDC

ENVIRONMENTAL

Temperature Range: -54°C to +71°C

Vibration (Note 2) .......... 10 G’S 50 - 2000 Hz

Shock (Operating)(Note 2) .......... 25 G’s 11 ms

Acceleration ............................................. 15 G

ELECTRICAL CHARACTERISTICS

Duty Cycle ........................................ Intermediate

Insulation Resistance ......................... 100 megohms
- @ 500V 25°C

Dielectric Strength:
- Sea Level:
  - Contact to Case ....................... 1,500 VRMS
  - Contact to Coil ....................... 1,500 VRMS
  - Coil to Case ......................... 1,500 VRMS
  - Across Open Contacts ............... 1,350 VRMS
- 50,000 Feet:
  - All Points ........................................ 500 VRMS

NOTES:
1. For other ratings or calibrations consult the factory.
2. For applications requiring higher shock and vibration, consult the factory.

14930 E. Alondra Blvd., La Mirada, CA 90638-5752  (714) 994-6500   FAX (714) 994-3013
The 701 Remote Power Controllers are designed to sense the current level flowing through their contacts, and to open the circuit when the current exceeds the specified current rating. These units use our unique magnetic latching motor design to minimize power consumption. These units are fully temperature compensated for accurate operation over the full temperature range.

The 701 circuitry has 1500 watts of Peak Power Dissipation transient suppression built in so it can withstand the rigors of even the noisiest of supply voltages. Utilizing all space age approved materials, the 701 Remote Power Controllers are ideal for demanding applications.

- **R.P.C. Type**
- **Nominal Current Rating**
  - "A" indicates SPDT Auxiliary switch

**OVERALL DIMENSIONS**

**SELECTION TABLE**

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<tr>
<th>Catalog Number</th>
<th>Continuous Ampere Contact Rating</th>
<th>Thread &quot;B&quot;</th>
<th>Dimension &quot;A&quot;</th>
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**SCHEMATIC**

**TYPICAL WIRING DIAGRAM**

**TRIP TIME CURVE**

**GENERAL NOTES**

- Unless otherwise specified, all tests made at nominal coil voltages, @ 25°C.
- For special coil variations, switching configurations, terminals styles and mounting types, consult the factory.
- Unless otherwise specified, tolerances on decimal dimensions are ± .010".
- Specifications contained herein are subject to change without notice.