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	Trip Time
1000% 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

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 Bounce Time.....2 ms max
@ rated contact load, 28 VDC

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.....Intermittent
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.

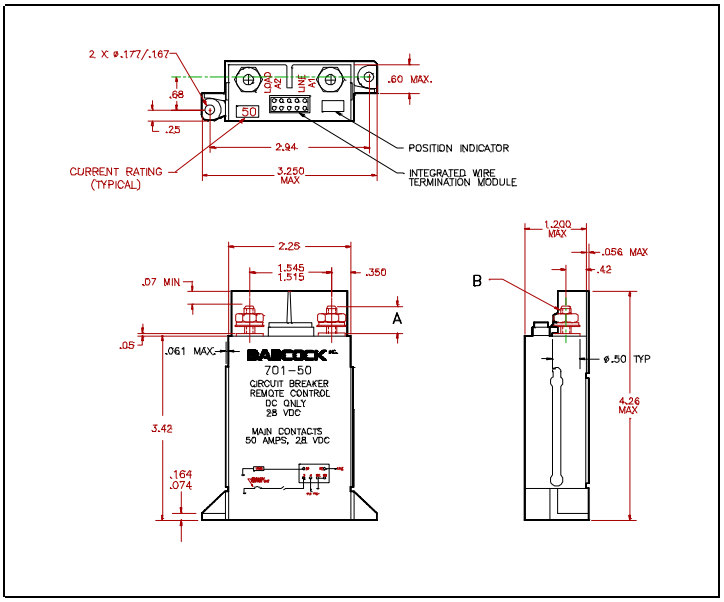
The 701 Remote Power Controllers are designed to sense the current level flowing through their contacts, and to open the circuit when the current exceeds the specified current rating. These units use our unique magnetic latching motor design to minimize power consumption. These units are fully temperature compensated for accurate operation over the full tem perature 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

701 - 150 A

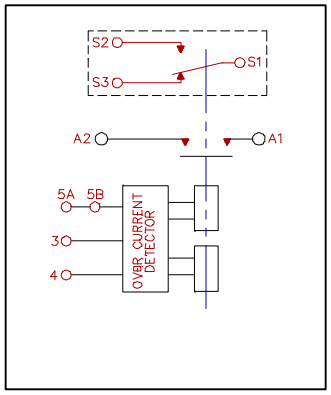
OVERALL DIMENSIONS



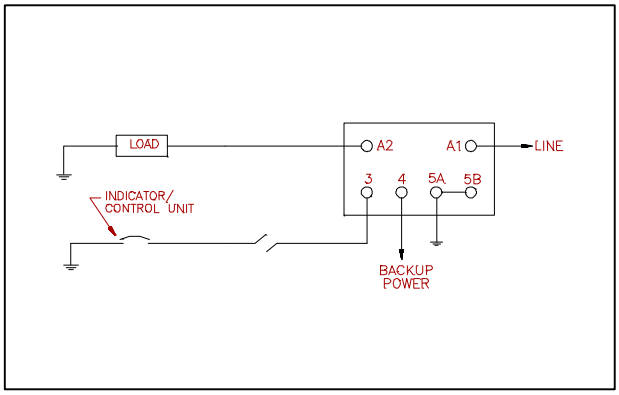
SELECTION TABLE

Catalog Number	Continuous Ampere Contact Rating	Thread "B"	Dimension "A"
701-5( )	5	10-32 UNF	.500
701-7.5( )	7.5	10-32 UNF	.500
701-10( )	10	10-32 UNF	.500
701-15( )	15	10-32 UNF	.500
701-20( )	20	10-32 UNF	.500
701-25( )	25	10-32 UNF	.500
701-35( )	35	1/4-28 UNF	.610
701-40( )	40	1/4-28 UNF	.610
701-50( )	50	1/4-28 UNF	.610
701-60( )	60	1/4-28 UNF	.610
701-75( )	75	1/4-28 UNF	.610
701-100( )	100	1/4-28 UNF	.610
701-125( )	125	1/4-28 UNF	.610
701-150( )	150	1/4-28 UNF	.610
701-175( )	175	1/4-28 UNF	.610
701-200( )	200	1/4-28 UNF	.610

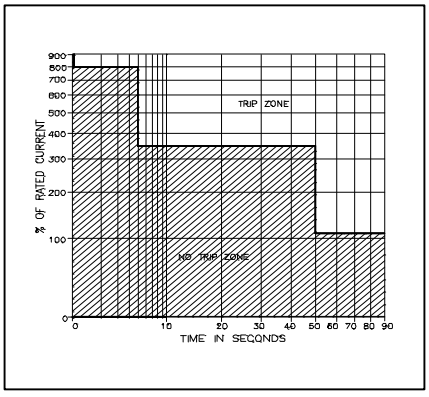
SCHEMATIC



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.

Microsemi Corporate Headquarters
One Enterprise, Aliso Viejo,
CA 92656 USA

Within the USA: +1 (800) 713-4113
Outside the USA: +1 (949) 380-6100
Sales: +1 (949) 380-6136
Fax: +1 (949) 215-4996

E-mail: sales.support@microsemi.com

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