

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

SPECIFICATIONS

GENERAL

Contact ArrangementSPST (1 Form X)
Weight15 oz max.
 Designed to meet the requirements of MIL-C-83383

PERFORMANCE

Contact Ratings (Note 1):

Power Contacts:

All loads.....Up to 200 Amps @ 115 VAC

<u>Current Trip Points</u>	<u>Trip Time</u>
1000% of Rated Current1.0 Sec. max.
400% of Rated Current10.0 Sec. max.
200% of Rated Current60.0 Sec. max.
138% of Rated Current1.0 Hour max.
Up to 115% of Rated CurrentNo Trip

Tolerances:

Current±10%
 Time±10%

Auxiliary Contacts:

Configuration.....SPDT
 Current Rating5 Amps @ 28 VDC

Life50,000 cycles @ rated Res. and Ind. load
 25,000 cycles @ rated Motor load
 100,000 cycles mechanical

Notes:

- For other ratings or calibrations consult the factory.
- For applications requiring higher shock and vibration, consult the factory.

Rupture (main contacts)3600 Amperes

Response Time:12 ms nom.

Contact Bounce Time2 ms max
 @ rated contact load, 115 VAC

Contact Voltage Drop:

Initial225 mv @ Rated Current
 End of Life250 mv @ Rated Current

Operating Voltage:

Nominal AC Voltage104 to 122 VAC

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

Acceleration15 G

ELECTRICAL CHARACTERISTICS

Duty CycleIntermittent

Insulation Resistance100 megohms
 @ 500V 25°C

Dielectric Strength:

Sea Level:

Contact to Case1,500 VRMS

Contact to Coil1,500 VRMS

Coil to Case1,500 VRMS

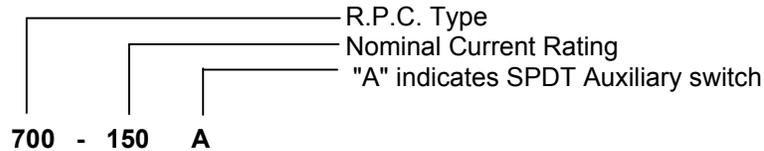
Across Open Contacts1,350 VRMS

50,000 Feet:

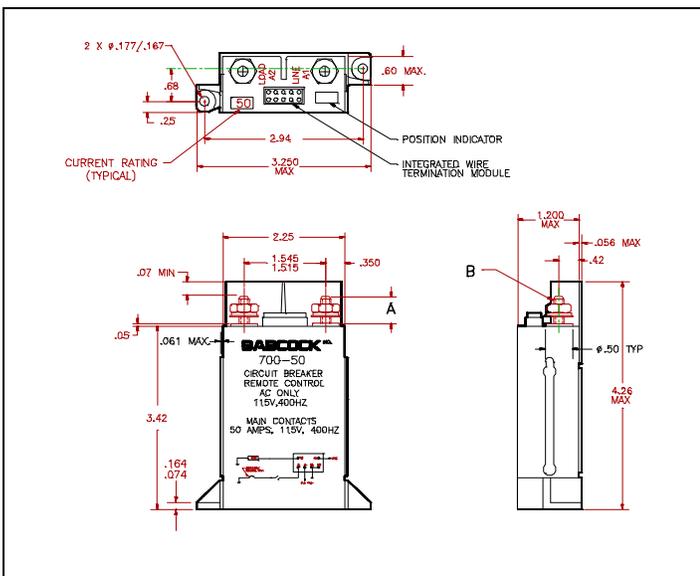
All Points500 VRMS

The 700 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 700 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 700 Remote Power Controllers are ideal for demanding applications.



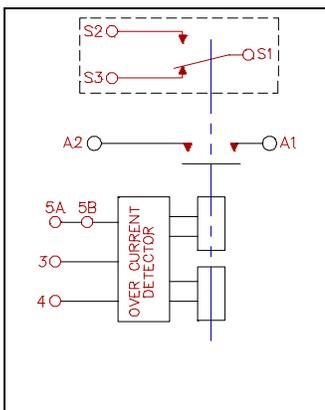
OVERALL DIMENSIONS



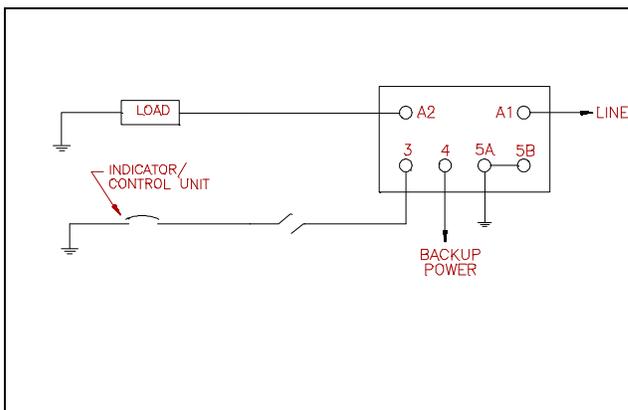
SELECTION TABLE

Catalog Number	Continuous Ampere Contact Rating	Thread "B"	Dimension "A"
700-5()	5	10-32 UNF	.500
700-7.5()	7.5	10-32 UNF	.500
700-10()	10	10-32 UNF	.500
700-15()	15	10-32 UNF	.500
700-20()	20	10-32 UNF	.500
700-25()	25	10-32 UNF	.500
700-35()	35	1/4-28 UNF	.610
700-40()	40	1/4-28 UNF	.610
700-50()	50	1/4-28 UNF	.610
700-60()	60	1/4-28 UNF	.610
700-75()	75	1/4-28 UNF	.610
700-100()	100	1/4-28 UNF	.610
700-125()	125	1/4-28 UNF	.610
700-150()	150	1/4-28 UNF	.610
700-175()	175	1/4-28 UNF	.610
700-200()	200	1/4-28 UNF	.610

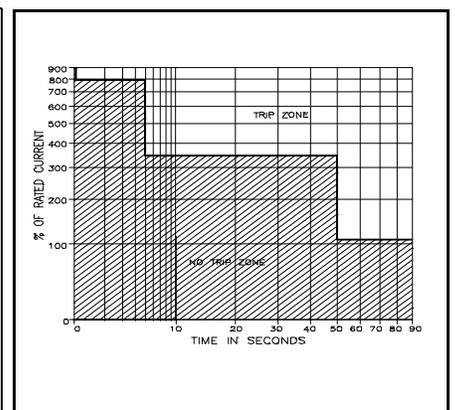
SCHEMATIC



TYPICAL WIRING DIAGRAM

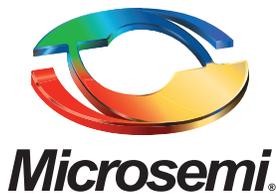


TRIP TIME CURVE



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.



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