

Remote Power Controllers Up to 150 amps

- Form X Magnetic Latching for AC Applications**



Specifications

General

Contact Arrangement3PST (1 Form X)
Weight.....36 oz approx.
 Designed to meet the requirements of MIL-C-83383

Contact Bounce Time.....2 ms max
 @ rated contact load, 115 VAC

Performance

Contact Ratings (Note 1):

Power Contacts:

All loads.....Up to 150 Amps @ 115/208 V 400 Hz

Current Trip PointsTrip Time 400 Hz
 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 CurrentNo Trip

Auxiliary Contacts:

Current.....±10%
Time±10%

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

Rupture (main contacts)3600 Amps
Response Time12 ms nom.

Contact Voltage Drop:

Initial.....225 mv @ Rated Current
 End of life225 mv @ Rated Current

Operating voltages:

Nominal AC Voltage.....104 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 Cycle.....Intermittent

Insulation Resistance100 megohms
 @ 500 V 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

Notes

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

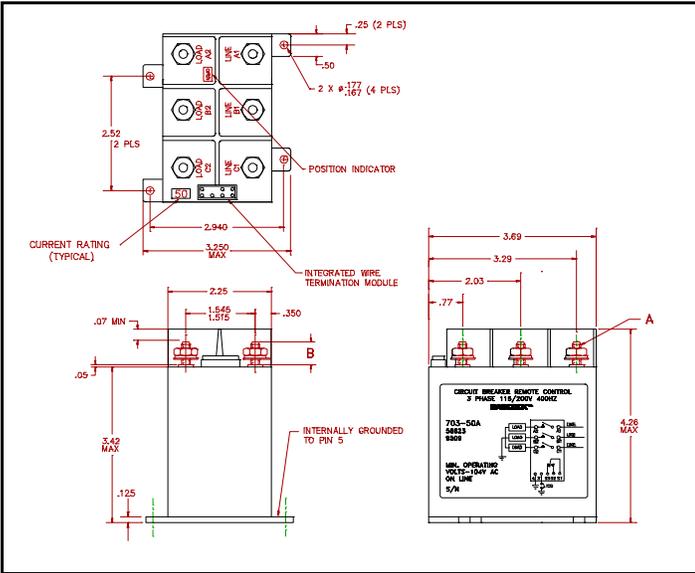
The 703 Remote Power Controllers are designed to sense the current level flowing through their contacts, and to open the circuit when the current exceeds the specified current rating. These units use our unique magnetic latching motor design to minimize power consumption. These units are fully temperature compensated for accurate operation over the full temperature range.

The 703 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 703 Remote Power Controllers are ideal for demanding applications.

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

703 - 150 A

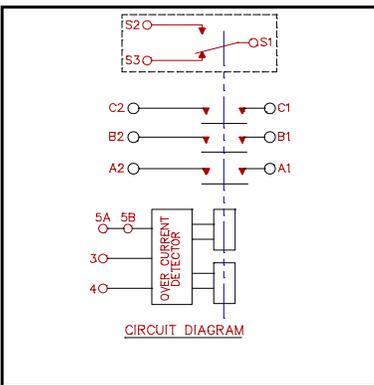
Overall Dimensions



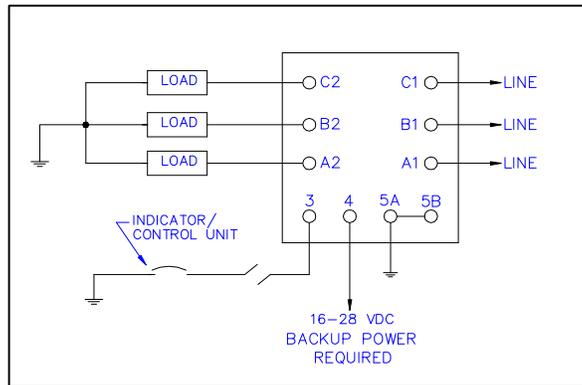
Selection Table

Catalog Number	Continuous Ampere Contact Rating	Thread "A"	Dimension "B"
703-5()	5	10-32 UNF	.500
703-7.5()	7.5	10-32 UNF	.500
703-10()	10	10-32 UNF	.500
703-15()	15	10-32 UNF	.500
703-20()	20	10-32 UNF	.500
703-25()	25	1/4-28 UNF	.500
703-35()	35	1/4-28 UNF	.610
703-40()	40	1/4-28 UNF	.610
703-50()	50	1/4-28 UNF	.610
703-60()	60	1/4-28 UNF	.610
703-75()	75	1/4-28 UNF	.610
703-80()	80	1/4-28 UNF	.610
703-100()	100	1/4-28 UNF	.610
703-125()	125	1/4-28 UNF	.610
703-150()	150	1/4-28 UNF	.610

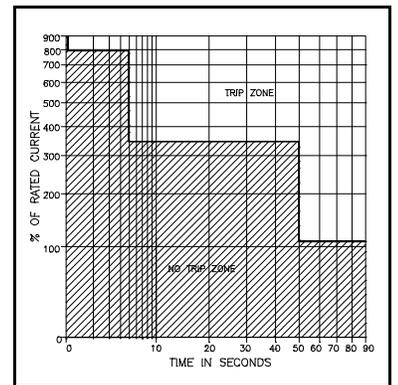
Schematic



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
www.microsemi.com

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