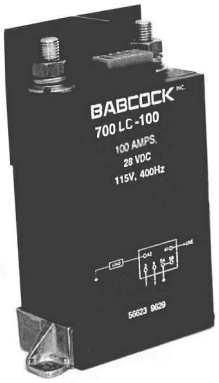
Load Controllers Up to 200 Amps • Form X Magnetic Latching



Load Controllers Up to 200 Amps • Form X Magnetic Latching

SPECIFICATIONS

GENERAL

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

PERFORMANCE

Contact Ratings (Note 1):

Resistive.....Up to 200 Amps @ 28 VDC or 115/208V 400 Hz

Inductive .....60% of rated resistive @ 28 VDC or 115/208V 400 Hz

Motor .....40% of rated resistive @ 28 VDC or 115/208V 400 Hz

Lamp .....15% of rated resistive @ 28 VDC or 115/208V 400 Hz

Life .....50,000 cycles @ rated Resistive load
25,000 cycles @ rated Motor load
100,000 cycles mechanical

Coil Data: (@ 28 VDC and 25°C)

Nominal Coil Voltage.....28 to 32 VDC
Latch/Reset Voltage (@ 71°C).....18 VDC max
Coil Resistance.....10 Ohms

Rupture .....3600 Amperes

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

Contact Bounce Time.....2 ms max @ rated contact load

Contact Voltage Drop:

Initial .....225 mv @ Rated Current
End of Life .....250 mv @ Rated Current

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.....Continuous
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.

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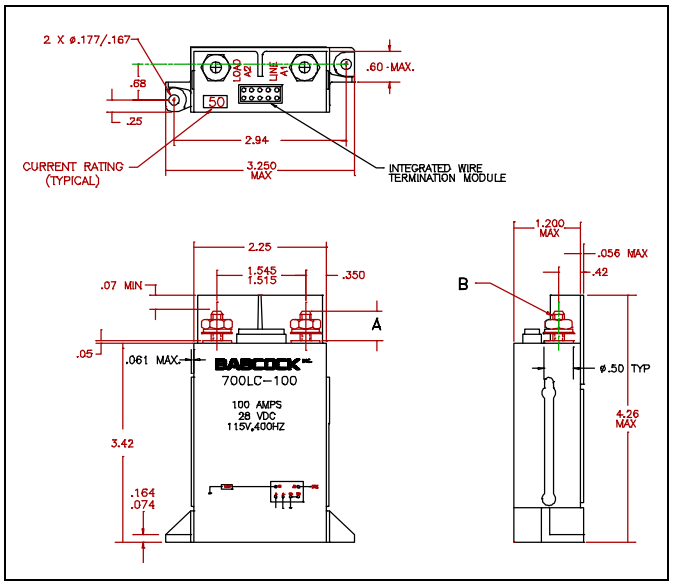
The 700LC Load Controllers are designed to handle even the toughest loads with exceptional current spike handling characteristics. The contact system utilizes the proven design in our RPC Current Sensors. The magnetic latching motor is designed to minimize power consumption.

The 700LC contact system can handle up to 3,600 Amperes of rupture current without any problem. The 700LC can withstand the rigors of even the noisiest of supply voltages. Utilizing all space age approved materials, the 700LC Load Controllers are ideal for demanding applications.

Load Controller Type
Nominal Current Rating

700LC - 100

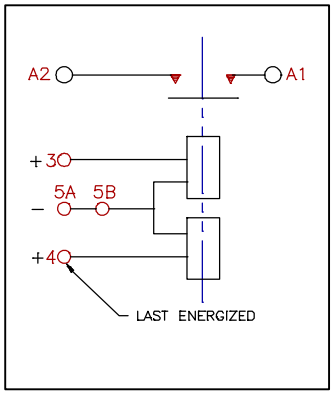
OVERALL DIMENSIONS



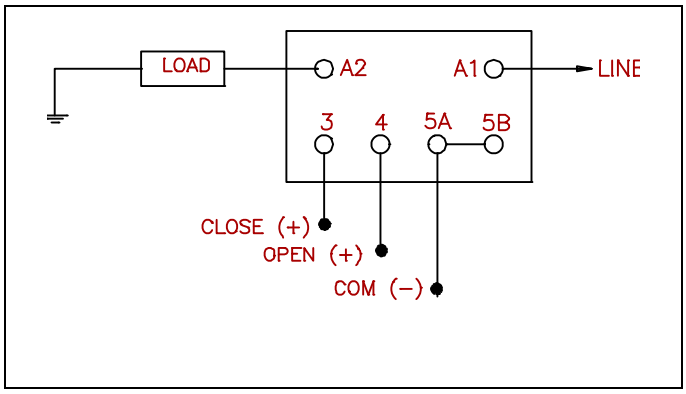
SELECTION TABLE

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

SCHEMATIC



TYPICAL WIRING DIAGRAM



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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