

# AZ696

## 10 AMP SUBMINIATURE POWER RELAY

### FEATURES

- Miniature size: Form A version: 0.63" (16 mm) height, 1.10" (30 mm) length, 0.39" (10 mm) width
- High sensitivity, 100 mW pickup
- Dielectric strength 4000 Vrms
- Isolation spacing greater than 8 mm
- Approvals/Standards include: UL, VDE, IEC
- 10 Amp switching capability
- Epoxy sealed for automatic wave soldering and cleaning
- UL, CUR file E43203



### CONTACTS

<b>Arrangement</b>	SPDT (1 Form C)    SPST (1 Form B) SPST (1 Form A)
<b>Ratings</b>	Resistive load: Max. switched power: 300 W or 2500 VA Max. switched current: 10 A Max. switched voltage: 150* VDC or 380 VAC <b>UL Rating:</b> 10 A at 30 VDC resistive 10 A at 250 VAC general use 1/4 HP 120 VAC 1/2 HP 250 VAC B 300 pilot duty  *Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
<b>Material</b>	Silver cadmium oxide or silver tin oxide
<b>Resistance</b>	< 30 milliohms initially (at rated current, voltage drop method)

### COIL

<b>Power</b>	
<b>At Pickup Voltage (typical)</b>	100 mW
<b>Max. Continuous Dissipation</b>	1.5 W at 20°C (68°F) ambient 1.2 W at 40°C (104°F) ambient
<b>Temperature Rise</b>	20°C (36°F) at nominal coil voltage
<b>Temperature</b>	Max. 110°C (230°F)

### NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Specifications subject to change without notice.

### GENERAL DATA

<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	Minimum operations 10 million 1 X 10 <sup>5</sup> at 10 A 240 VAC Res.
<b>Operate Time (typical)</b>	10 ms at nominal coil voltage
<b>Release Time (typical)</b>	5 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	4000 Vrms coil to contact 1000 Vrms between open contacts
<b>Insulation Resistance</b>	1000 megohms min. at 20°C, 500 VDC, 50% RH
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<b>Ambient Temperature</b> <b>Operating</b> <b>Storage</b>	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) -40°C (-40°F) to 110°C (230°F)
<b>Vibration</b>	0.062" DA at 10–55 Hz
<b>Shock</b>	20 g
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Max. Solder Temp.</b>	270°C (518°F)
<b>Max. Solder Time</b>	5 seconds
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	14 grams



**AMERICAN ZETTLER, INC.**

[www.azettler.com](http://www.azettler.com)

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04/15/05W

# AZ696

## RELAY ORDERING DATA

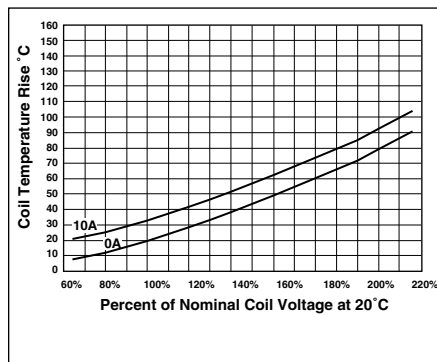
COIL SPECIFICATIONS				ORDER NUMBER	
Nominal Coil VDC	Must Operate VDC	Max Continuous VDC	Coil Resistance Ohms $\pm 10\%$	1 Form A (SPST-NO)	1 Form C (SPDT)
5	3.5	12.0	110	AZ696-1A-5D	AZ696-1C-5D
6	4.2	14.5	160	AZ696-1A-6D	AZ696-1C-6D
9	6.3	22.0	360	AZ696-1A-9D	AZ696-1C-9D
12	8.4	29.5	660	AZ696-1A-12D	AZ696-1C-12D
18	12.6	44.0	1,500	AZ696-1A-18D	AZ696-1C-18D
24	16.8	54.0	2,200	AZ696-1A-24D	AZ696-1C-24D
48	33.6	102.0	8,000	AZ696-1A-48D	AZ696-1C-48D

\* Substitute "1B" in place of "1A" for 1 Form B contact. ADD suffix "E" to "1A" or "1B" or "1C" for silver tin oxide contacts.  
Add Suffix "E" at the end of order number for sealed version.

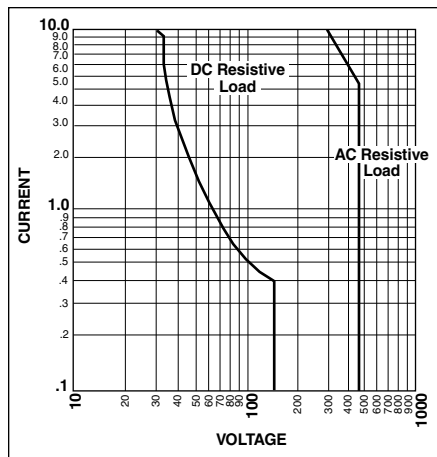
## INTERNATIONAL APPROVALS

Germany	VDE 0435/09.72 at 8 Amps VDE 0631/12.83 at 8 Amps VDE 0700/1/2.81 at 8 Amps
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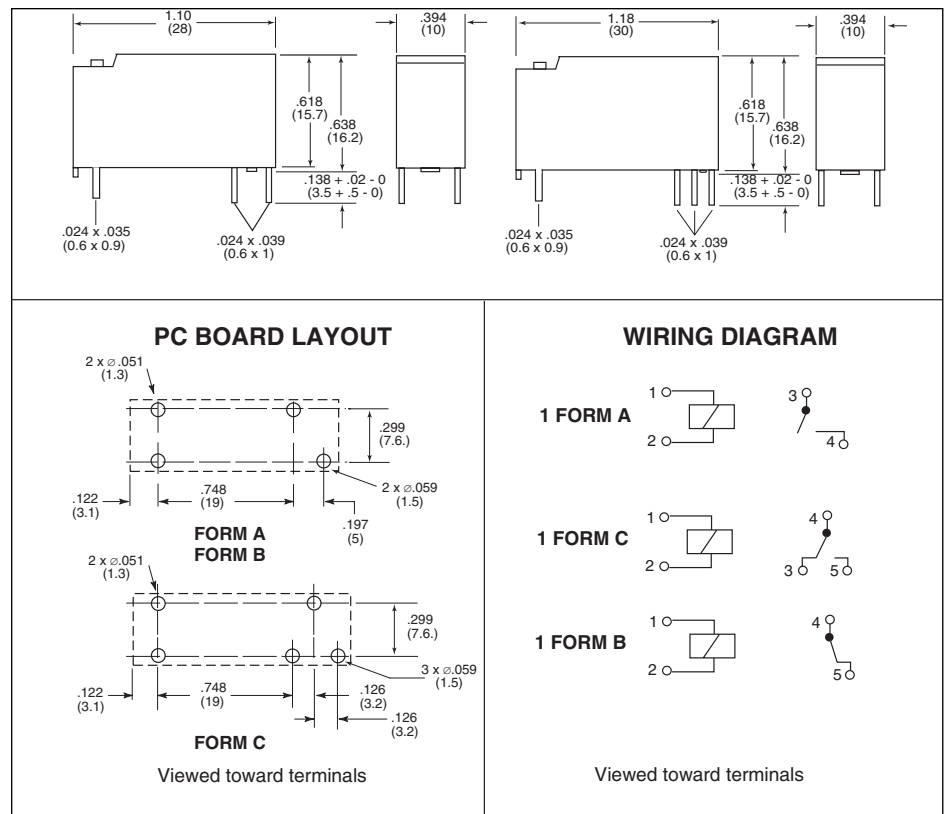
## Coil Temperature Rise



## Maximum Switching Capacity



## MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance:  $\pm .010$ "



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