

# AZ6962

## 10 AMP SUBMINIATURE POWER RELAY

### FEATURES

- High sensitivity, 120 mW pickup
- Dielectric strength 5000 Vrms
- Isolation spacing greater than 10 mm
- Proof tracking index (PTI/CTI) 250
- 10 Amp switching capability
- Epoxy sealed
- UL, CUR file E43203
- VDE file 40010953



### CONTACTS

<b>Arrangement</b>	SPDT (1 Form C), DPDT (2 Form C) SPST (1 Form A)
<b>Ratings</b>	Resistive load: Max. switched power: 240 W or 2500 VA (2 Form C: 150 W or 1250 VA) Max. switched current: 10 A (2 Form C: 5 A) Max. switched voltage: 240 VDC* or 440 VAC  * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
<b>Rated Load UL, CUR</b>	10 A at 250 VAC resistive, 30k cycles (1 Form C) 10 A at 30 VDC resistive, 30k cycles (1 Form C) B300, R300 Pilot Duty 5 A at 250 VAC resistive, 30k cycles (2 Form C)
<b>VDE</b>	8 A at 250 VAC resistive, 100k cycles (1 Form A, and 1 Form C)
<b>Material</b>	Silver tin oxide
<b>Resistance</b>	< 100 milliohms initially

### GENERAL DATA

<b>Life Expectancy Mechanical Electrical</b>	Minimum operations 3 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 8 A 250 VAC res.
<b>Operate Time (typical)</b>	7 ms at nominal coil voltage
<b>Release Time (typical)</b>	3 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	5000 Vrms coil to contact 2500 Vrms between contact sets 1500 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 Operating Storage</b>	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F)
<b>Vibration</b>	Break Contact: 5 g at 10 ...500 Hz Make Contact: 20 g at 10...500 Hz
<b>Shock</b>	10 g
<b>Enclosure</b>	P.B.T. polyester, UL94 V-O
<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>	8 grams

### COIL

<b>Power At Pickup Voltage (typical)</b>	120 mW (up to 24 VDC coil) 140 mW (48 VDC and 60 VDC coil)
<b>Max. Continuous Dissipation</b>	1.2 W at 20°C (68°F) ambient
<b>Temperature Rise</b>	20°C (36°F) at nominal coil voltage
<b>Temperature</b>	Max. 130°C (266°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.



**AMERICAN ZETTLER, INC.**

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09/14/04W

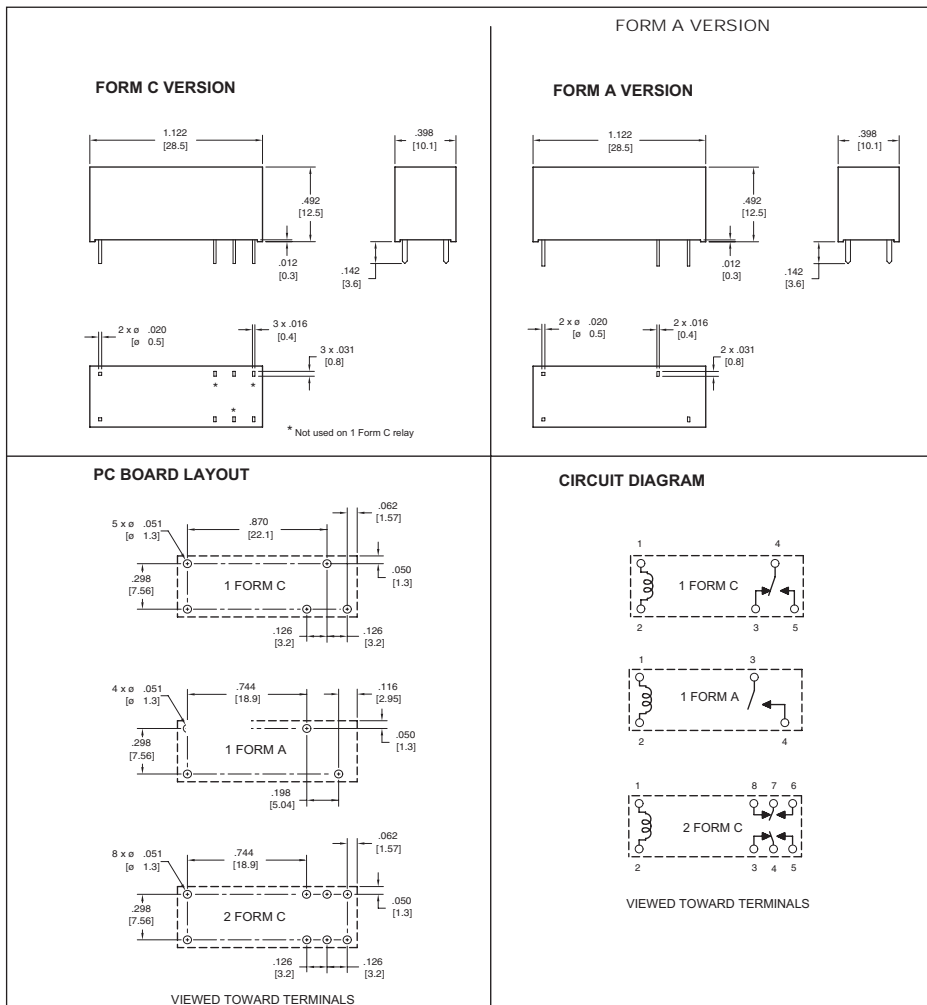
# AZ6962

## RELAY ORDERING DATA

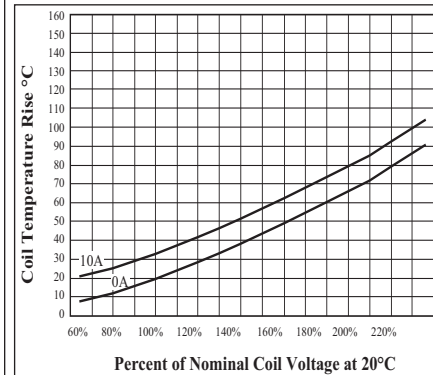
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm	1 Form A (SPST-NO)	1 Form C (SPDT)
5	3.5	11.6	113 ± 10%	AZ6962-1AE-5DE	AZ6962-1CE-5DE
6	4.2	14.0	164 ± 10%	AZ6962-1AE-6DE	AZ6962-1CE-6DE
9	6.3	20.8	360 ± 10%	AZ6962-1AE-9DE	AZ6962-1CE-9DE
12	8.4	27.2	620 ± 10%	AZ6962-1AE-12DE	AZ6962-1CE-12DE
15	10.5	31.0	800 ± 10%	AZ6962-1AE-15DE	AZ6962-1CE-15DE
18	12.6	39.4	1,295 ± 10%	AZ6962-1AE-18DE	AZ6962-1CE-18DE
24	16.8	53.1	2,350 ± 10%	AZ6962-1AE-24DE	AZ6962-1CE-24DE
48	33.6	98.0	8,000 ± 15%	AZ6962-1AE-48DE	AZ6962-1CE-48DE
60	42.0	122.4	12,500 ± 15%	AZ6962-1AE-60DE	AZ6962-1CE-60DE

Substitute "2C" in place of "1C" for 2 Form C relay. Add suffix "A" for gold plated contacts.

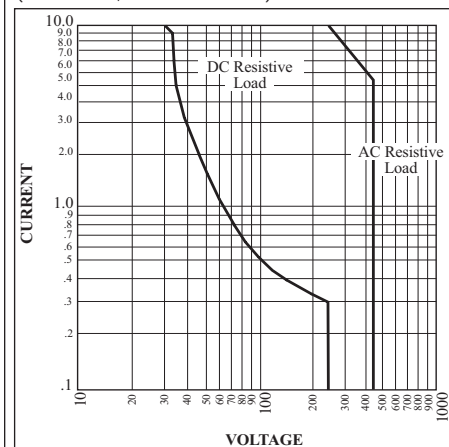
## MECHANICAL DATA



## Coil Temperature Rise



## Maximum Switching Capacity (1 Form A, and 1 Form C)



Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"



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