

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 version available
- Reinforced insulation, EN 60730-1 (VDE 0631, part 1)
EN 60335-1 (VDE 0700, part 1)
- UL, CUR file E43203
- VDE file 40010953



CONTACTS

| | |
|-------------------------------|---|
| Arrangement | SPDT (1 Form C), DPDT (2 Form C) SPST (1 Form A and 1 Form B) |
| Ratings | 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. |
| Rated Load UL, CUR | 10 A at 250 VAC resistive, 30k cycles [1], [2], [3] 10 A at 30 VDC resistive, 30k cycles [1], [2], [3] B300, R300 5 A at 250 VAC resistive, 30k cycles [1], [2], [3] (2 Form C) |
| VDE | 8 A at 250 VAC resistive, 100k cycles [1], [2], [3] (1 Form A, 1 Form B and 1 Form C) |
| Material | Silver tin oxide [1] or silver nickel [2], gold plated silver nickel [3] available |
| Resistance | < 100 milliohms initially |

COIL

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

GENERAL DATA

| | |
|--|--|
| Life Expectancy Mechanical Electrical | Minimum operations 3 x 10 ⁷ 1 x 10 ⁵ at 8 A 250 VAC res. |
| Operate Time (typical) | 7 ms at nominal coil voltage |
| Release Time (typical) | 3 ms at nominal coil voltage (with no coil suppression) |
| Dielectric Strength (at sea level for 1 min.) | 5000 Vrms coil to contact 2500 Vrms between contact sets 1000 Vrms between open contacts |
| Insulation Resistance | 1000 megohms min. at 20°C, 500 VDC, 50% RH |
| Insulation (according to DIN VDE 0110, IEC 60664-1) | C250 Overvoltage category: III Pollution degree: 3 Nominal voltage: 250 VAC |
| Dropout | Greater than 10% of nominal coil voltage |
| Ambient Temperature Operating Storage | At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F) |
| Vibration | Break Contact: 5 g at 10 ...500 Hz Make Contact: 20 g at 10...500 Hz |
| Shock | 10 g |
| Enclosure | P.B.T. polyester, UL94 V-O |
| Terminals | Tinned copper alloy, P.C. |
| Max. Solder Temp. | 270°C (518°F) |
| Max. Solder Time | 5 seconds |
| Max. Solvent Temp. | 80°C (176°F) |
| Max. Immersion Time | 30 seconds |
| Weight | 8 grams |
| Packing unit in pcs | 20 per plastic tube / 1000 per carton box |

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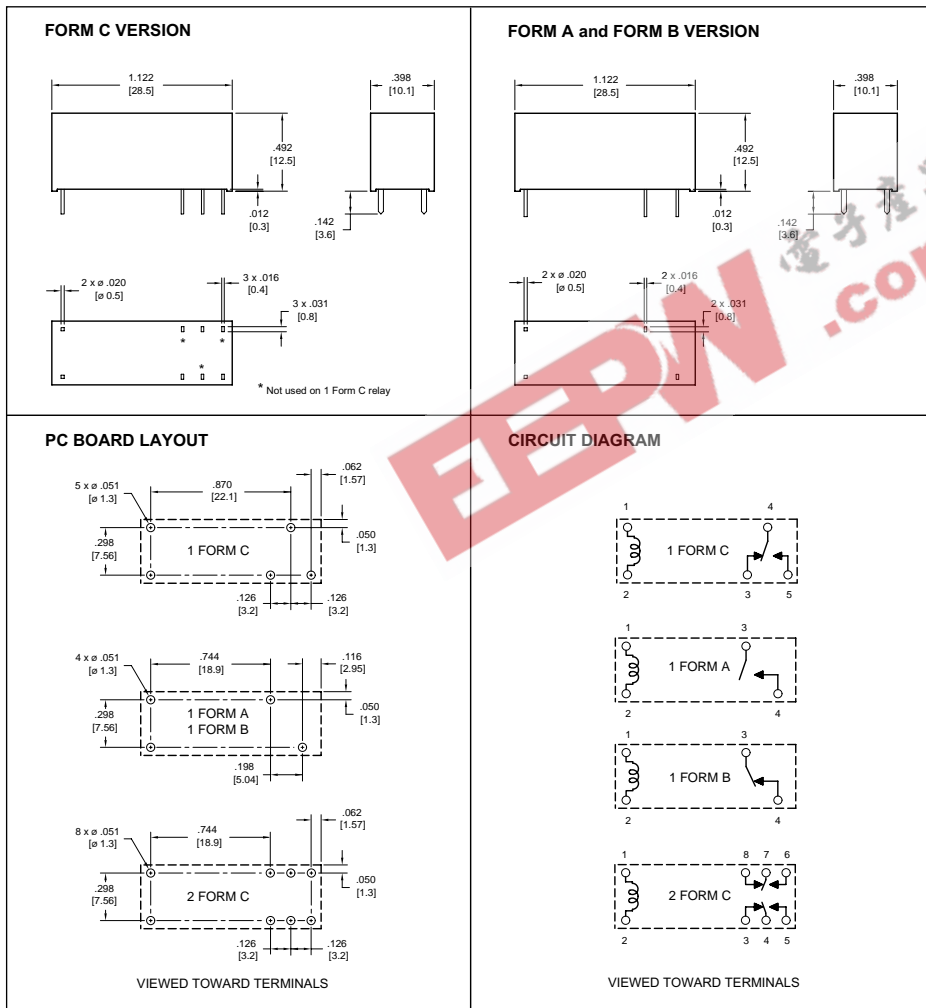
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RELAY ORDERING DATA

| 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-5D | AZ6962-1CE-5D |
| 6 | 4.2 | 14.0 | 164 ± 10% | AZ6962-1AE-6D | AZ6962-1CE-6D |
| 9 | 6.3 | 20.8 | 360 ± 10% | AZ6962-1AE-9D | AZ6962-1CE-9D |
| 12 | 8.4 | 27.2 | 620 ± 10% | AZ6962-1AE-12D | AZ6962-1CE-12D |
| 15 | 10.5 | 31.0 | 800 ± 10% | AZ6962-1AE-15D | AZ6962-1CE-15D |
| 18 | 12.6 | 39.4 | 1,295 ± 10% | AZ6962-1AE-18D | AZ6962-1CE-18D |
| 24 | 16.8 | 53.1 | 2,350 ± 10% | AZ6962-1AE-24D | AZ6962-1CE-24D |
| 48 | 33.6 | 98.0 | 8,000 ± 15% | AZ6962-1AE-48D | AZ6962-1CE-48D |
| 60 | 42.0 | 122.4 | 12,500 ± 15% | AZ6962-1AE-60D | AZ6962-1CE-60D |

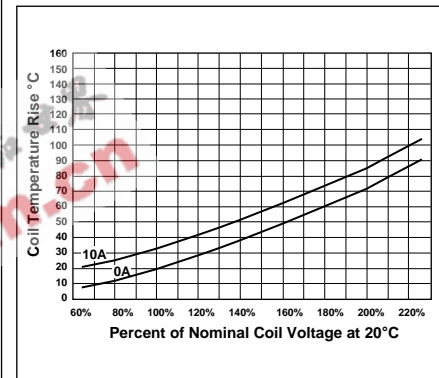
*Substitute "1B" in place of "1A" for Form B contacts. Suffix "E" at "1AE", "1BE" or "1CE" indicates silver tin oxide contacts. Substitute suffix "B" in place of "E" at "1AE", "1BE" or "1CE" for silver nickel contacts. Substitute "2C" in place of "1C" for 2 Form C relay. Add suffix "E" at the end of order number for sealed version. Add suffix "A" at the end of order number for gold plated contacts (at silver nickel only).

MECHANICAL DATA

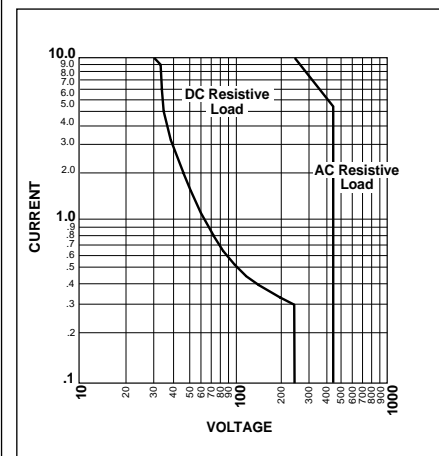


Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

Coil Temperature Rise



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



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