

AZ697

10 AMP MINIATURE POWER RELAY

FEATURES

- Dielectric strength 5000 Vrms
- 10 Amp switching — single pole contacts
- UL TV-5
- Isolation spacing greater than 8mm (1 Form A)
6mm (1 Form C)
- Epoxy sealed version available
- UL, CUR file E44211
- TÜV file R9659061



CONTACTS

| | |
|-------------------------------|--|
| Arrangement | SPST (1 Form A) SPDT (1 Form C) |
| Ratings | Resistive load: Max. switched power: 300 W or 2500 VA Max. switched current: 10 A Max. switched voltage: 150 VDC* or 380 VAC * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory. |
| Rated Load UL, CUR | TV-5 120 AC 10 A 277 VAC 10 A 30 VDC resistive 1/3 HP 250 VAC |
| TÜV | 1/4 HP 125 VAC N. O. 10 A 250 VAC, 30 VDC resistive, 100k cycles |
| Material | Silver cadmium oxide |
| Resistance | < 50 milliohms initially |

GENERAL DATA

| | |
|--|--|
| Life Expectancy Mechanical Electrical | Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 10 A 250 VAC Res. |
| Operate Time (typical) | 8 ms at nominal coil voltage |
| Release Time (typical) | 5 ms at nominal coil voltage (with no coil suppression) |
| Dielectric Strength (at sea level for 1 min.) | 5000 Vrms coil to contact 1000 Vrms between open contacts |
| Insulation Resistance | 1000 megohms min. at 20°C, 500 VDC 50% RH |
| 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 | 0.062" (1.5 mm) DA at 10–55 Hz |
| Shock | 10 g |
| Enclosure | P.B.T. polyester |
| 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 | 18 grams |
| Packing unit in pcs | 50 per plastic tray / 500 per carton box |

COIL

| | |
|--|----------------------------------|
| Power At Pickup Voltage (typical) | 257 mW |
| Max. Continuous Dissipation | 1.9 W at 20°C (68°F) ambient |
| Temperature Rise | 34°C (61°F) 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.

ZETTLER electronics GmbH

Junkersstrasse 3, D-82178 Puchheim, Germany

Tel. +49 89 800 97 0
Fax +49 89 800 97 200

office@ZETTLERelectronics.com
www.ZETTLERelectronics.com

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RELAY ORDERING DATA

| COIL SPECIFICATIONS | | | | ORDER NUMBER* | |
|---------------------|------------------|---------------------|---------------------|---------------|---------------|
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance Ohm | Form A (SPST) | Form C (SPDT) |
| 3 | 2.1 | 5.7 | 17 ±10% | AZ697-1A-3D | AZ697-1C-3D |
| 5 | 3.5 | 9.4 | 47 ±10% | AZ697-1A-5D | AZ697-1C-5D |
| 6 | 4.2 | 11.4 | 68 ±10% | AZ697-1A-6D | AZ697-1C-6D |
| 9 | 6.3 | 17.4 | 160 ±10% | AZ697-1A-9D | AZ697-1C-9D |
| 12 | 8.4 | 22.8 | 275 ±10% | AZ697-1A-12D | AZ697-1C-12D |
| 18 | 12.6 | 27.9 | 650 ±10% | AZ697-1A-18D | AZ697-1C-18D |
| 24 | 16.8 | 45.7 | 1,100 ±15% | AZ697-1A-24D | AZ697-1C-24D |
| 48 | 33.6 | 89.0 | 4,170 ±15% | AZ697-1A-48D | AZ697-1C-48D |
| 60 | 42.0 | 115.3 | 7,000 ±15% | AZ697-1A-60D | AZ697-1C-60D |
| 110 ** | 79.3 | 170.5 | 22,900 ±15% | AZ697-1A-110D | AZ697-1C-110D |

*Add suffix "E" for epoxy sealed version. ** 110VDC coil not TÜV approved.

MECHANICAL DATA

| Form A and C | | PC BOARD LAYOUT | | | | | | |
|---|---------------------------------|--------------------------------|---------------------------------|---------|-------------------------------|---|-------------------------------|--|
| | | <p>Viewed toward terminals</p> | | | | | | |
| <table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Dimensions Tol.: ± 0.005 (0.13)</th> </tr> </thead> <tbody> <tr> <td>1,2,3,5</td> <td>0.018 (0.457) x 0.038 (0.965)</td> </tr> <tr> <td>4</td> <td>0.011 (0.279) x 0.038 (0.965)</td> </tr> </tbody> </table> | | Terminal No. | Dimensions Tol.: ± 0.005 (0.13) | 1,2,3,5 | 0.018 (0.457) x 0.038 (0.965) | 4 | 0.011 (0.279) x 0.038 (0.965) | <h3>WIRING DIAGRAMS</h3> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Form A</p> </div> <div style="text-align: center;"> <p>Form C</p> </div> </div> <p>Viewed toward terminals</p> |
| Terminal No. | Dimensions Tol.: ± 0.005 (0.13) | | | | | | | |
| 1,2,3,5 | 0.018 (0.457) x 0.038 (0.965) | | | | | | | |
| 4 | 0.011 (0.279) x 0.038 (0.965) | | | | | | | |

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

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