AZ697 __

10 AMP MINIATURE POWER RELAY

FEATURES

- Dielectric strength 5000 Vrms
- Low cost
- Epoxy sealed version available
- 10 Amp switching single pole contacts
- UL TV-5
- Isolation spacing greater than 8mm
- UL Class B insulation system, Class F available
- UL, CUR file E44211; TÜV file R50129288



| Arrangement | SPST (1 Form A) SPDT (1 Form C) |
|-------------|---|
| Ratings | Resistive load: Max. switched power: 300 W or 2770 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 at 120 VAC [1][2][3] 10 A at 277 VAC, General Use [1] 10 A 30 VDC, Resistive [1] 1/3 HP at 250 VAC [1] 1/4 HP at 125 VAC N.O. [1] 10 A at 277 VAC, General Use, 100k cycles [2][3] 10 A at 30 VDC, Resistive, 100k cycles [2][3] 1/3 HP at 250 VAC, 100k cycles [2][3] 1/4 HP at 125 VAC, 100k cycles [2][3] |
| TÜV | 10 A at 250 VAC, 30 VDC Resistive 100k cycles [1][2] 10 A at 250 VAC, 30 VDC Resistive 50k cycles [3] |
| Material | Silver cadmium oxide [1], silver nickel [2], silver tin oxide [3], Gold plating available |
| Resistance | < 50 milliohms initially (24 V, 1 A voltage drop method) |

COIL

| Power | |
|--|---|
| At Pickup Voltage (typical) | 257 mW |
| Max. Continuous Dissipation Temperature Rise | 1.9 W at 20°C (68°F) ambient (Class B) 2.5 W at 20°C (68°F) ambient (Class F) 34° C (61°F) at nominal voltage |
| Temperature | Max. 130°C (266°F) Class B Max. 155° C (311° F) Class F |



GENERAL DATA

| Life Expectancy Mechanical Electrical | Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 10 A 240 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 90°C (194°F) Class B -40°C (-40°F) to 110°C (230°F) Class F -40°C (-40°F) to 130°C (266°F) Class B -40°C (-40°F) to 155°C (311°F) Class F | | |
| Vibration | 0.062" 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 | | |

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.



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RELAY ORDERING DATA

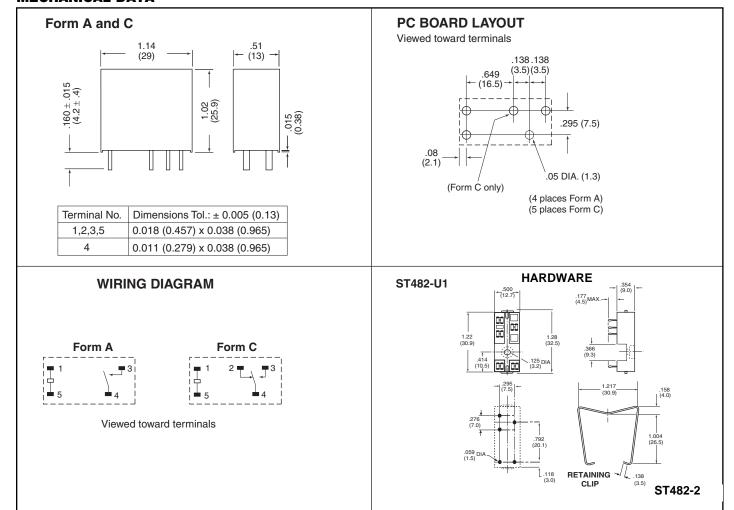
| COIL SPECIFICATIONS | | | | ORDER NUMBER* | |
|---------------------|------------------|---------------------|--------------------|------------------|------------------|
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance | Form A (SPST) | Form C (SPDT) |
| 3 | 2.1 | 5.7 | 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 | 1100 ±15% | AZ697-1A-24D | AZ697-1C-24D |
| 48 | 33.6 | 89.0 | 4170 ±15% | AZ697-1A-48D | AZ697-1C-48D |
| 60 | 42.0 | 115.3 | 7000 ±15% | AZ697-1A-60D | AZ697-1C-60D |
| 110 | 79.3 | 170.5 | 22900 ±15% | AZ697-1A-110D | AZ697-1C-110D |

^{*}For silver nickel contacts change "-1A" or "-1C" to "-1AE" or "-1CE". For epoxy seal change "D" to "DE". For gold plating change "D" or "DE" to "DA" or "DEA". For Class F insulation add suffix "F" to part number.

HARDWARE ORDERING DATA

| DESCRIPTION | ORDER NUMBER | DESCRIPTION | ORDER NUMBER |
|-------------|--------------|-------------|--------------|
| Socket | ST482-U1 | Retainer | ST482–2 |

MECHANICAL DATA



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



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