

AZ733W

DPST MINIATURE POWER RELAY

FEATURES

- Dielectric strength 5000 Vrms
- 1.5 mm contact gap
- Epoxy sealed version available
- 10 Amp switching — double pole contacts
- Isolation spacing greater than 8 mm
- UL, CUR file E44211
- TÜV file R9659062



CONTACTS

| | |
|-------------------------------|--|
| Arrangement | DPST (2 Form A) |
| Ratings | Resistive load: Max. switched power: 240 W or 2500 VA Max. switched current: 10 A Max. switched voltage: 150 VDC* or 400 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 general use 100k cycles [1] [2] [3] TV-3 at 125 VAC [1] |
| TÜV | 10 A at 30 VDC resistive, 100k cycles [1] [2] [3] 10 A at 250 VAC resistive, 100k cycles [1] [2] [3] |
| Material | Silver cadmium oxide [1], silver tin oxide [2] or silver nickel [3] |
| Resistance | < 50 milliohms initially |

COIL

| | |
|--|-------------------------------------|
| Power At Pickup Voltage (typical) | 450 mW |
| Max. Continuous Dissipation | 2.0 W at 20°C (68°F) ambient |
| Temperature Rise | 40°C (83°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 5 x 10 ⁵ 1 x 10 ⁵ at 10 A 250 VAC Res. |
| Operate Time (typical) | 10 ms at nominal coil voltage |
| Release Time (typical) | 4 ms at nominal coil voltage (with no coil suppression) |
| Dielectric Strength (at sea level for 1 min.) | 5000 Vrms contact to coil 3000 Vrms between open contacts 3000 Vrms between contact sets |
| 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 70°C (158°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 |

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RELAY ORDERING DATA

| COIL SPECIFICATIONS | | | | ORDER NUMBER | |
|---------------------|------------------|---------------------|---------------------|----------------|-----------------|
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance Ohm | Unsealed | Sealed |
| 3 | 2.25 | 4.7 | 11.3 ±10% | AZ733W-2A-3D | AZ733W-2A-3DE |
| 5 | 3.8 | 7.9 | 31 ±10% | AZ733W-2A-5D | AZ733W-2A-5DE |
| 6 | 4.5 | 9.5 | 45 ±10% | AZ733W-2A-6D | AZ733W-2A-6DE |
| 9 | 6.8 | 14.2 | 101 ±10% | AZ733W-2A-9D | AZ733W-2A-9DE |
| 12 | 9.0 | 18.9 | 180 ±10% | AZ733W-2A-12D | AZ733W-2A-12DE |
| 18 | 13.5 | 28.4 | 405 ±10% | AZ733W-2A-18D | AZ733W-2A-18DE |
| 24 | 18.0 | 37.9 | 720 ±15% | AZ733W-2A-24D | AZ733W-2A-24DE |
| 48 | 36.0 | 75.9 | 2,880 ±15% | AZ733W-2A-48D | AZ733W-2A-48DE |
| 60 | 45.0 | 94.8 | 4,500 ±15% | AZ733W-2A-60D | AZ733W-2A-60DE |
| 110 | 82.5 | 183.3 | 16,800 ±15% | AZ733W-2A-110D | AZ733W-2A-110DE |

* Add suffix "B" to "2A" for silver nickel contacts.
Add suffix "E" to "2A" for silver tin oxide contacts.

MECHANICAL DATA

| Terminal No. | Dimensions Tol.: ± 0.005 (0.13) |
|--------------|---------------------------------|
| 1,4,5,8 | 0.018 (0.457) x 0.038 (0.965) |
| 3,6 | 0.011 (0.279) x 0.038 (0.965) |

PC BOARD LAYOUT

Viewed toward terminals

WIRING DIAGRAM

Viewed toward terminals

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

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