

AZ725

MINIATURE POWER RELAY

FEATURES

- Dielectric strength 5000 Vrms
- 20 Amp switching — single pole contacts
- Isolation spacing greater than 8mm
- Molded materials: all 94 V-0
- VDE 6010 - unsealed version only
- Sealed version available
- UL, CUR file E43203



CONTACTS

| | |
|--------------------|---|
| Arrangement | SPST (1 Form A) SPDT (1 Form C) |
| Ratings | Resistive load: Max. switched power: 480 W or 5000 VA Max. switched current: 20 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 | 20 A at 250 VAC resistive |
| Material | Silver cadmium oxide |
| Resistance | < 30 milliohms initially |

COIL

| | |
|------------------------------------|---|
| Power | |
| At Pickup Voltage (typical) | 270 mW |
| Max. Continuous Dissipation | 2.6 W at 20°C (68°F) ambient 2.0 W at 40°C (104°F) ambient |
| Temperature Rise | 32°C (58°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.

GENERAL DATA

| | |
|--|--|
| Life Expectancy | Minimum operations |
| Mechanical | 2 x 10 ⁷ |
| Electrical | 1 x 10 ⁵ at 16 A 240 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 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 | At nominal coil voltage |
| Operating | -40°C (-40°F) to 85°C (185°F) |
| Storage | -40°C (-40°F) to 130°C (266°F) |
| Vibration | 0.062" DA at 10–55 Hz |
| Shock | 10 g |
| Enclosure | P.B.T. polyester |
| Terminals | Tinned copper alloy |
| Max. Solder Temp. | 270°C (518°F) |
| Max. Solder Time | 5 seconds |
| Max. Immersion Time | 30 seconds |
| Max. Solvent Temp | 80°C (176°F) |
| Weight | 19 grams |



AMERICAN ZETTLER, INC.

www.azettler.com

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RELAY ORDERING DATA

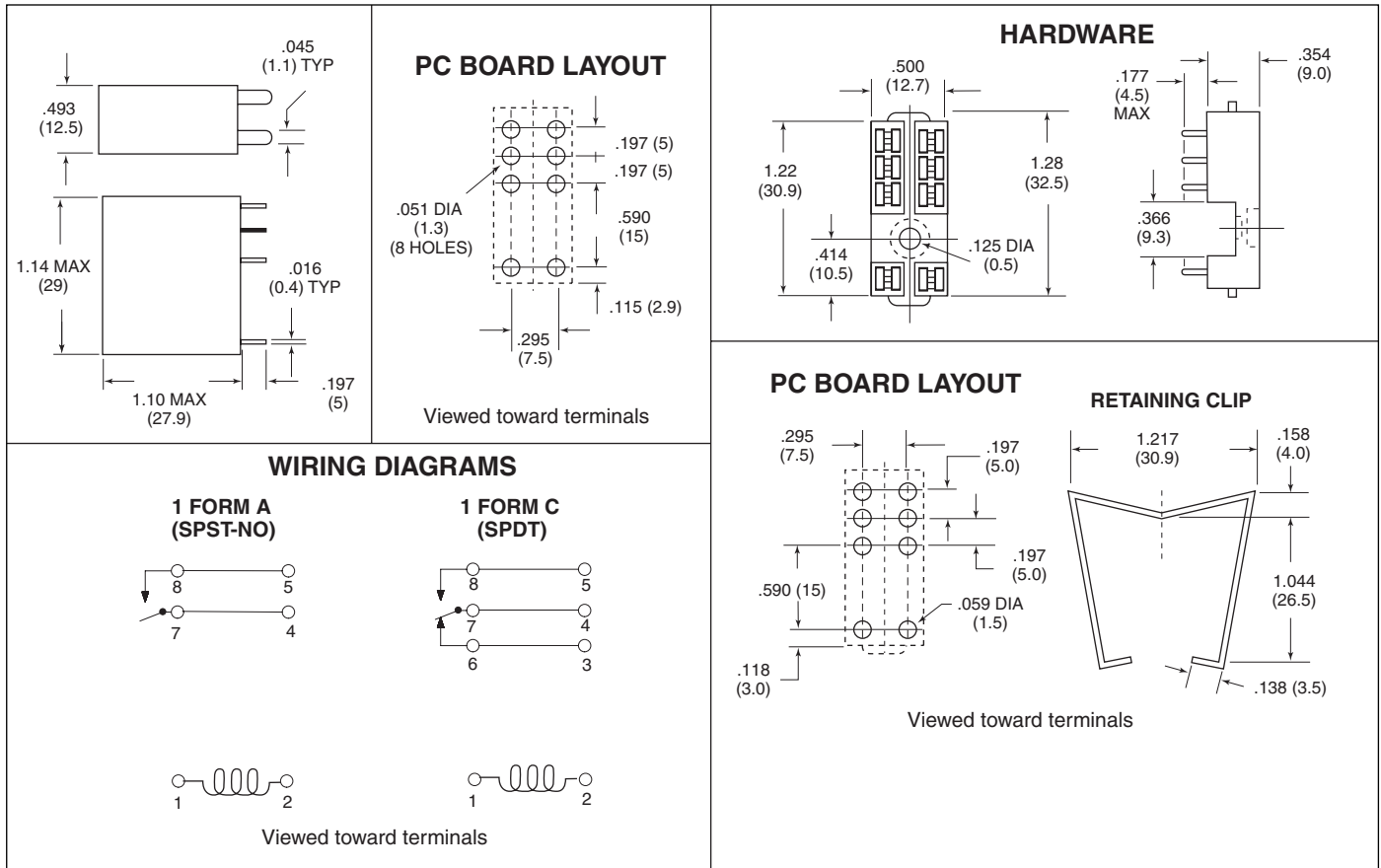
| COIL SPECIFICATIONS — DC Coil | | | | ORDER NUMBER* | | |
|-------------------------------|------------------|---------------------|------------------|----------------------|---------------|---------------|
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Nominal mA ± 10% | Coil Resistance ±10% | Form A (SPST) | Form C (SPDT) |
| 5 | 3.5 | 11.3 | 102.0 | 49 | AZ725-1A-5D | AZ725-1C-5D |
| 6 | 4.2 | 13.3 | 88.21 | 68 | AZ725-1A-6D | AZ725-1C-6D |
| 12 | 8.4 | 26.0 | 46.2 | 260 | AZ725-1A-12D | AZ725-1C-12D |
| 24 | 16.8 | 53.5 | 21.8 | 1,100 | AZ725-1A-24D | AZ725-1C-24D |
| 48 | 33.6 | 107.0 | 10.9 | 4,400 | AZ725-1A-48D | AZ725-1C-48D |
| 60 | 42.0 | 135.0 | 8.6 | 7,000 | AZ725-1A-60D | AZ725-1C-60D |

*Add suffix "E" for epoxy sealed version

HARDWARE ORDERING DATA

| DESCRIPTION | ORDER NUMBER |
|----------------|--------------|
| Socket | ST484-U1 |
| Retaining Clip | ST482-2 |

MECHANICAL DATA



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



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