

AZ725

16 AMP MINIATURE POWER RELAY HIGH INRUSH VERSION 120 AMP

FEATURES

- Dielectric strength 5000 Vrms
- 16 Amp switching - single pole contacts
- High inrush version: 120 Amp (20 ms) switching, contact gap > 0.6 mm
- Isolation spacing greater than 8mm
- Proof tracking index (PTI/CTI) 250
- Reinforced insulation, EN 60730-1 (VDE 0631, part 1) EN 60335-1 (VDE 0700, part 1)
- UL, CUR file E43203
- VDE file 40013003



CONTACTS

| | |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Arrangement | SPDT (1 Form C) SPST (1 Form A and 1 Form B) |
| Ratings | Resistive load: Max. switched power: 480 W or 4000 VA Max. switched current: 16 A Max. switched voltage: 300 VDC* or 400 VAC * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory. |
| Rated Load | 16 A at 250 VAC resistive |
| UL, CUR | 16 A at 250 VAC resistive, 100k cycles |
| VDE | 16 A at 250 VAC resistive, 100k cycles |
| Material | Silver cadmium oxide or silver tin oxide |
| Resistance | < 30 milliohms initially |

COIL

| | |
|------------------------------------|----------------------------------|
| Power | |
| At Pickup Voltage (typical) | 270 mW |
| Max. Continuous Dissipation | 1.7 W at 20°C (68°F) ambient |
| Temperature Rise | 32°C (58°F) nominal coil voltage |
| Temperature | Max. 130°C (266°F) |

NOTES

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|-----------------------------------------------------------|
| 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 | 3 x 10 ⁷ |
| Electrical | 1 x 10 ⁵ at 16 A 250 VAC Res. High inrush version only: 1 x 10 ⁵ at 1000 W 230 VAC tungsten lamp 3 x 10 ⁴ at 3000 W 230 VAC tungsten lamp 1 x 10 ⁴ at 2500 W 230 VAC halogen lamp |
| 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 2000 Vrms between open contacts (1 Form A high inrush version) |
| 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 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 | 20 g |
| Enclosure | P.B.T. polyester, UL94 V-0 |
| Terminals | Tinned copper alloy |
| Max. Solder Temp. | 270°C (518°F) |
| Max. Solder Time | 5 seconds |
| Weight | 19 grams |
| Packing unit in pcs | 50 per plastic tray / 1000 per carton box |

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AZ725

RELAY ORDERING DATA

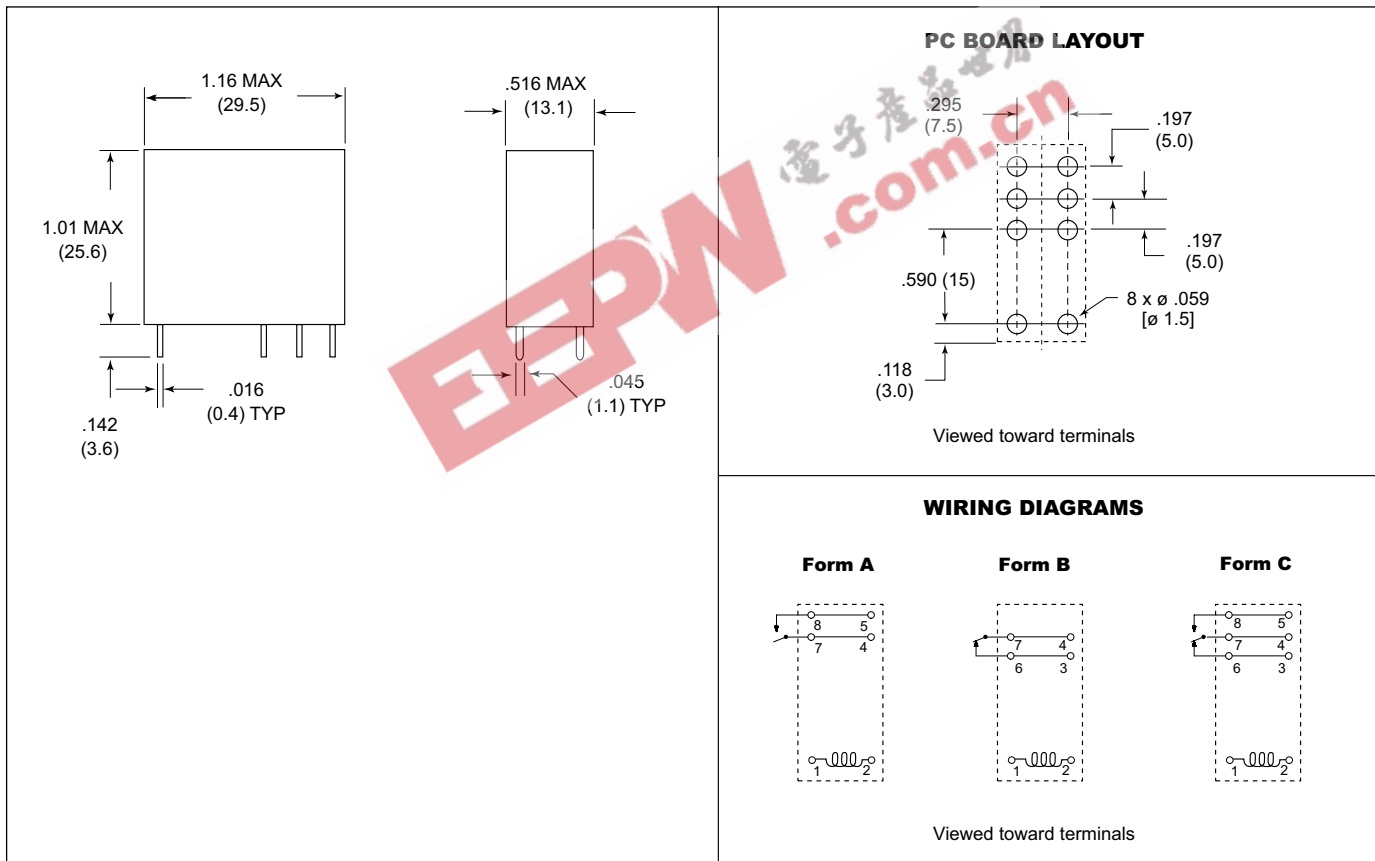
| COIL SPECIFICATIONS | | | | ORDER NUMBER* | |
|---------------------|------------------|---------------------|--------------------------------|---------------|---------------|
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance Ohm $\pm 10\%$ | Form A (SPST) | Form C (SPDT) |
| 5 | 3.5 | 8.85 | 49 | AZ725-1A-5D | AZ725-1C-5D |
| 6 | 4.2 | 10.6 | 68 | AZ725-1A-6D | AZ725-1C-6D |
| 12 | 8.4 | 21.2 | 260 | AZ725-1A-12D | AZ725-1C-12D |
| 24 | 16.8 | 42.5 | 1,100 | AZ725-1A-24D | AZ725-1C-24D |
| 48 | 33.6 | 85.0 | 4,400 | AZ725-1A-48D | AZ725-1C-48D |
| 60 | 42.0 | 106.2 | 7,000 | AZ725-1A-60D | AZ725-1C-60D |
| 110 | 77.0 | 188.0 | 20,500 | AZ725-1A-110D | AZ725-1C-110D |

* Substitute "1B" in place of "1A" for Form B contacts.

Add suffix "E" to "1A" or "1C" for silver tin oxide contacts

Substitute "1AS" in place of "1A" for 1 Form A silver tin oxide contacts (120 A high inrush version).

MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010$ "

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