

# 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

<b>Arrangement</b>	SPDT (1 Form C) SPST (1 Form A and 1 Form B)
<b>Ratings</b>	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.
<b>Rated Load</b>	
<b>UL, CUR</b>	16 A at 250 VAC resistive
<b>VDE</b>	16 A at 250 VAC resistive, 100k cycles
<b>Material</b>	Silver cadmium oxide or silver tin oxide
<b>Resistance</b>	< 30 milliohms initially

### COIL

<b>Power</b>	
<b>At Pickup Voltage (typical)</b>	270 mW
<b>Max. Continuous Dissipation</b>	1.7 W at 20°C (68°F) ambient
<b>Temperature Rise</b>	32°C (58°F) nominal coil voltage
<b>Temperature</b>	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

<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	Minimum operations 3 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 16 A 250 VAC Res. High inrush version only: 1 x 10 <sup>5</sup> at 1000 W 230 VAC tungsten lamp 3 x 10 <sup>4</sup> at 3000 W 230 VAC tungsten lamp 1 x 10 <sup>4</sup> at 2500 W 230 VAC halogen lamp
<b>Operate Time (typical)</b>	7 ms at nominal coil voltage
<b>Release Time (typical)</b>	3 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	5000 Vrms coil to contact 1000 Vrms between open contacts 2000 Vrms between open contacts (1 Form A high inrush version)
<b>Insulation Resistance</b>	1000 megohms min. at 20°C, 500 VDC, 50% RH
<b>Insulation (according to DIN VDE 0110, IEC 60664-1)</b>	C250 Overvoltage category: III Pollution degree: 3 Nominal voltage: 250 VAC
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<b>Ambient Temperature Operating Storage</b>	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) -40°C (-40°F) to 105°C (221°F)
<b>Vibration</b>	0.062" (1.5 mm) DA at 10–55 Hz
<b>Shock</b>	20 g
<b>Enclosure</b>	P.B.T. polyester, UL94 V-0
<b>Terminals</b>	Tinned copper alloy
<b>Max. Solder Temp.</b>	270°C (518°F)
<b>Max. Solder Time</b>	5 seconds
<b>Weight</b>	19 grams
<b>Packing unit in pcs</b>	50 per plastic tray / 1000 per carton box

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## RELAY ORDERING DATA

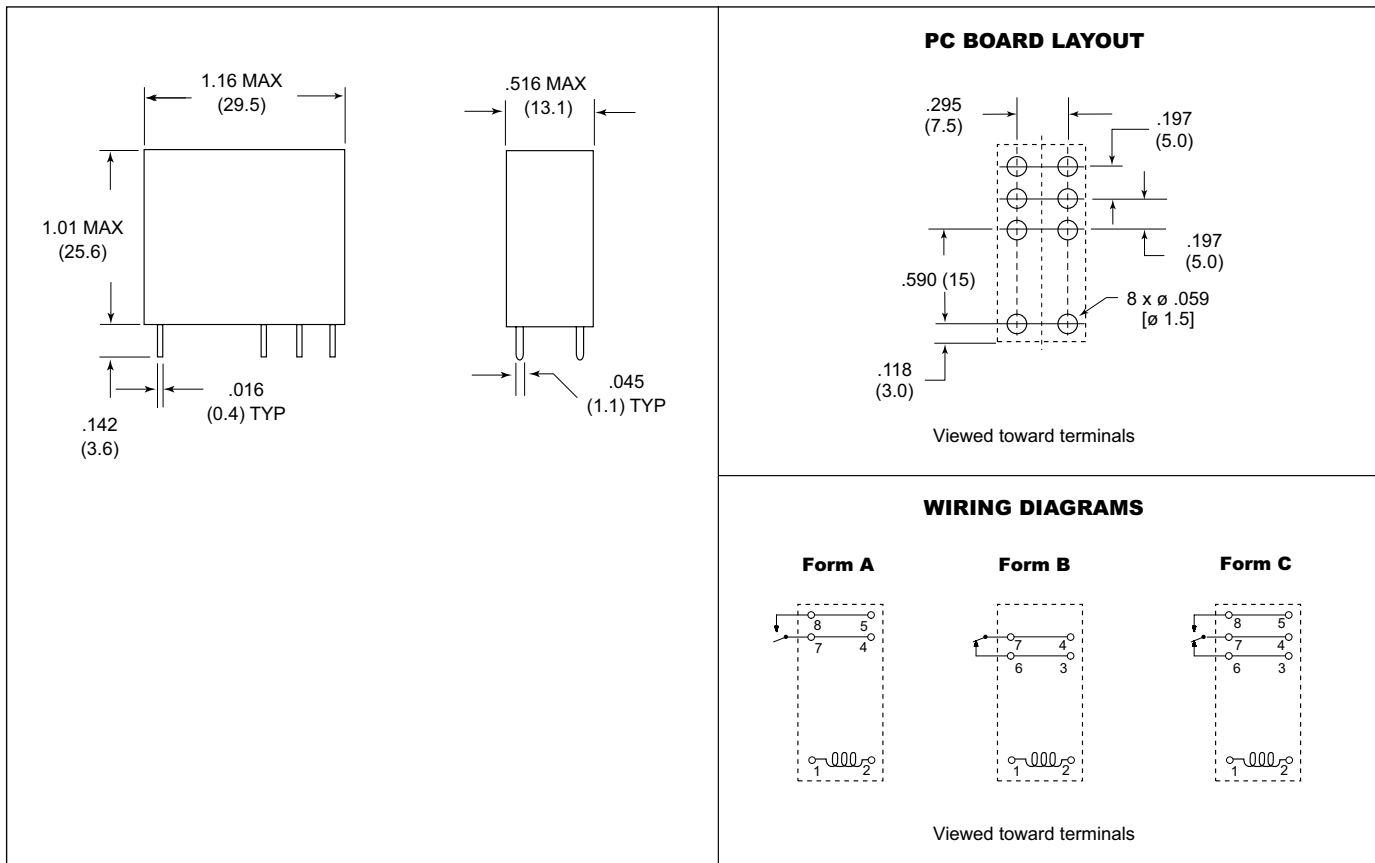
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	Form A (SPST)	Form C (SPDT)
5	3.5	8.85	49	AZ725-1A-5D	AZ725-1C-5D
6	4.2	10.6	68	AZ725-1A-6D	AZ725-1C-6D
12	8.4	21.2	260	AZ725-1A-12D	AZ725-1C-12D
24	16.8	42.5	1,100	AZ725-1A-24D	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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2005-08-04