

# AZ726

## MINIATURE POWER RELAY

### FEATURES

- AC coils
- Dielectric strength 5000 Vrms
- Low cost
- Flux tight package
- 16 Amp switching - single pole contacts
- Isolation spacing greater than 8mm
- Molded materials: all 94V-0
- UL and Canadian file E43203



### CONTACTS

<b>Arrangement</b>	SPST (1 Form A) SPDT (1 Form C)
<b>Ratings</b>	<b>Resistive load:</b> Max. switched power: 480 W, 4000 VA Max. switched current: 16 A Max. switched voltage: 150 VDC/400 VAC  <b>Inductive load: (cos<math>\phi</math> =0.4)</b> Max. switched power: 240W or 2000 VA Max. Switched current: 8A Max. switched voltage: 125VDC or 400 VAC  <small>Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.</small>
<b>Rated Load UL, CUR</b>	16 A 250 VAC, resistive
<b>Min. Load</b>	5 VDC, .01A
<b>Material</b>	Silver alloy
<b>Resistance</b>	30 milliohms initially (6V, 1A method)

### COIL

<b>Power At Pickup Voltage (typical)</b>	576 mW
<b>Max. Continuous Dissipation</b>	1.5 W at 20°C (68°F) ambient 1.2 W at 40°C (104°F) ambient
<b>Temperature Rise</b>	36°C (65°F) at nominal coil voltage
<b>Temperature</b>	Max. 105°C (221°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> Mechanical Electrical	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at rated load
<b>Operate Time (typical)</b>	8 ms at nominal coil voltage
<b>Release Time (typical)</b>	5 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
<b>Insulation Resistance</b>	1000 megohms min. at 20°C, 500 VDC 50% RH
<b>Dropout</b>	Greater than 30% 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" DA at 10–55 Hz
<b>Shock</b>	10 g
<b>Enclosure</b>	PC (94V-0)
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Max. Solder Temp.</b>	270°C (518°F)
<b>Max. Solder Time</b>	5 seconds
<b>Weight</b>	17 grams

**ZETTLER** electronics

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## RELAY ORDERING DATA

COIL SPECIFICATIONS - AC Coil					ORDER NUMBER	
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Current mA $\pm 10\%$	Coil Resistance $\pm 10\%$	Form A (SPST)	Form C (SPDT)
6	4.8	7.8	150.0	16	AZ726-1A-6A	AZ726-1C-6A
12	9.6	15.6	75.0	65	AZ726-1A-12A	AZ726-1C-12A
24	19.2	31.2	37.5	260	AZ726-1A-24A	AZ726-1C-24A
50	40.0	65.0	18.0	1130	AZ726-1A-50A	AZ726-1C-50A
110	88.0	143.0	10.6	4600	AZ726-1A-110A	AZ726-1C-110A
220	176.0	286.0	5.3	20200	AZ726-1A-220A	AZ726-1C-220A
230	184.0	299.0	3.6	24900	AZ726-1A-230A	AZ726-1C-230A

## MECHANICAL DATA

**Form A and C**

14 (29)

.51 (.13)

.99 (25.2)

16 (4)

01 (.26)

Tolerance:  $\pm 0.010$  (0.26)

Terminal Number	Dimensions	Tol.	$\pm 0.005$ (0.13)
1	0.23 (0.58) x 0.23 (0.58)		
2	0.010 (0.4) x 0.040 (1.015)		
3	0.011 (0.28) x 0.040 (1.015)		
4	0.013 (0.330) x 0.040 (1.015)		

**WIRING DIAGRAM (Bottom View)**

**Form A**

**Form C**

**PC BOARD LAYOUT (Bottom View)**

035 Dia. (0.9) 2 places

197 (5) 137 (5)

190 (15)

295 (7.5)

08 (2.1)

05 Dia. (3)

4 places Form A  
6 places Form C

Dimensions in inches with metric equivalents in parentheses. Tolerance:  $\pm 0.010$ "

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