

# AZ766

## SPST SUBMINIATURE POWER RELAY

### FEATURES

- Small footprint
- Low seated height
- Low cost
- Epoxy sealed version available
- 12 Amp switching
- UL, CUR file E44211



### CONTACTS

<b>Arrangement</b>	SPST (1 Form A)
<b>Ratings</b>	Resistive load: Max. switched power: 300 W or 2770 VA Max. switched current: 13.5 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.
<b>Rated Load UL, CUR</b>	13.5 A at 125 VAC 12 A at 125 VAC, general use, 100k cycles 10 A at 277 VAC / 30 VDC, 100k cycles TV-5 1/4 HP at 125 VAC / 250 VAC
<b>Material</b>	Silver tin oxide
<b>Resistance</b>	< 50 milliohms initially

### COIL

<b>Power At Pickup Voltage (typical)</b>	253 mW
<b>Max. Continuous Dissipation</b>	1.3 W at 20°C (68°F) ambient
<b>Temperature Rise</b>	39°C (70°F) at 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 Mechanical Electrical</b>	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 12 A 125 VAC Res.
<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>	2500 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 5% of nominal coil voltage
<b>Ambient Temperature Operating Storage</b>	At nominal coil voltage -40°C (-40°F) to 85°C (188°F) -40°C (-40°F) to 105°C (221°F)
<b>Vibration</b>	0.040" (1.0 mm) DA at 10–50 Hz
<b>Shock</b>	10 g operating, 100 g damage
<b>Enclosure</b>	P.B.T. polyester
<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>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	6 grams
<b>Packing unit in pcs</b>	50 per plastic tube / 1500 per carton box

**ZETTLER electronics GmbH**

Junkersstrasse 3, D-82178 Puchheim, Germany

Tel. +49 89 800 97 0  
Fax +49 89 800 97 200

office@ZETTLERelectronics.com  
www.ZETTLERelectronics.com

2004-08-22

# AZ766

## RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	Unsealed	Sealed
3	2.25	5.0	20	AZ766-1A-3D	AZ766-1A-3DE
5	3.75	8.4	55	AZ766-1A-5D	AZ766-1A-5DE
6	4.5	10.2	80	AZ766-1A-6D	AZ766-1A-6DE
9	6.75	15.3	180	AZ766-1A-9D	AZ766-1A-9DE
12	9.0	20.4	320	AZ766-1A-12D	AZ766-1A-12DE
18	13.5	30.6	720	AZ766-1A-18D	AZ766-1A-18DE
24	18.0	40.8	1,280	AZ766-1A-24D	AZ766-1A-24DE

## MECHANICAL DATA

Top view dimensions: .724 [18.4] (width), .410 [10.4] (height), .140 [3.6] (lead height), 2 x .039 [1.0] (lead width), 2 x .016 [0.4] (lead spacing), 2 x .019 [0.5] SQ (lead thickness).

Side view dimensions: .598 [15.2] (width), .465 [11.8] (height).

Terminal view dimensions: 4 terminals labeled 1, 2, 3, 4.

**PC BOARD LAYOUT**

Dimensions: .400 [10.2] (terminal spacing), .093 [2.3] (lead length), .070 [1.8] (lead width), .465 [11.8] (terminal width), .539 [13.7] (terminal pitch), .078 [2.0] (lead length).

4 x  $\varnothing$ .050 [ $\varnothing$ 1.3] (mounting holes)

Viewed toward terminals

**WIRING DIAGRAM**

Viewed toward terminals

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

**ZETTLER electronics GmbH**

Junkersstrasse 3, D-82178 Puchheim, Germany

Tel. +49 89 800 97 0

Fax +49 89 800 97 200

office@ZETTLERelectronics.com

www.ZETTLERelectronics.com

2004-08-22