

# AZ766

## SPST SUBMINIATURE POWER RELAY

### FEATURES

- Small footprint
- Low seated height
- Low cost
- Epoxy sealed version available
- 13.5 Amp switching
- UL Class B insulation system
- 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 <small>*Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.</small>
<b>Rated Load UL, CUR</b>	13.5 A at 125 VAC 12 A at 125 VAC Gen. use 100 K cycles 10 A at 277 VAC / 30 VDC 100 K cycles TV-5 1/4 HP, 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 130°C (266°F)
<b>Vibration</b>	0.040" 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



**AMERICAN ZETTLER, INC.**

[www.azettler.com](http://www.azettler.com)

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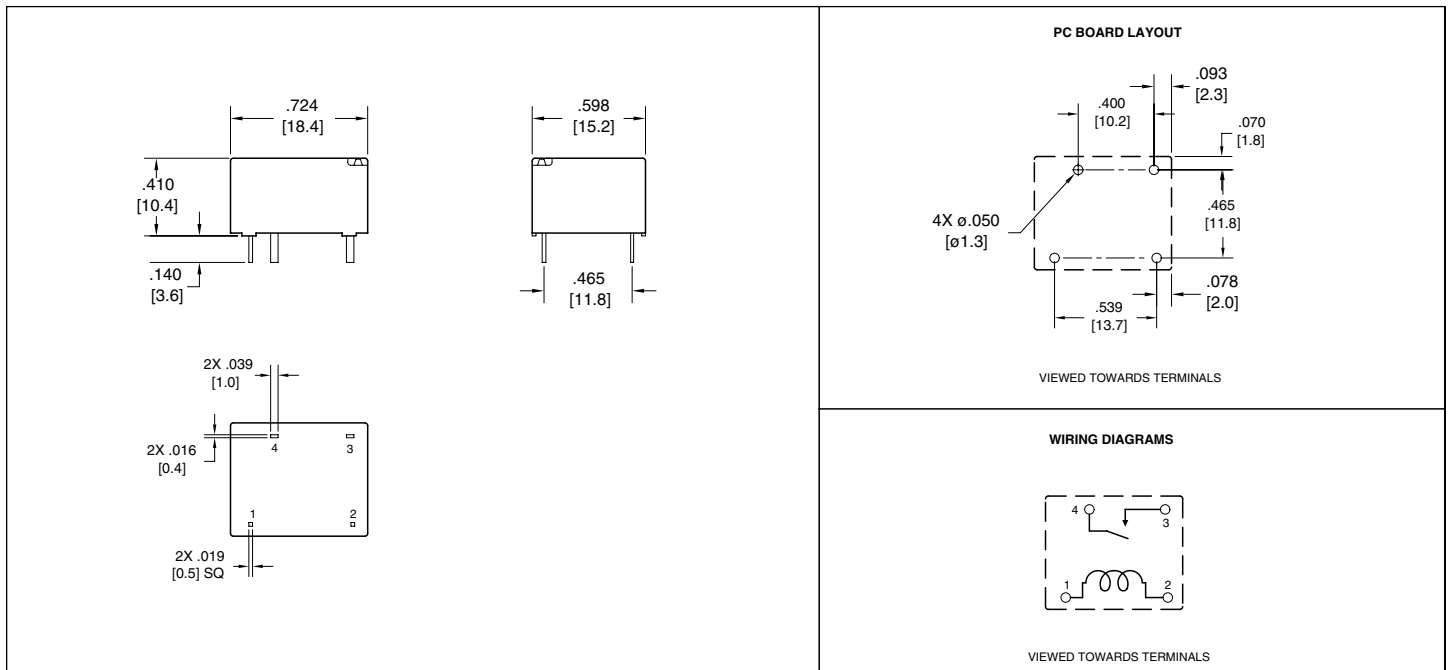
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## RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	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



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



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