

# AZ765

## SPST SUBMINIATURE POWER RELAY

### FEATURES

- Small footprint
- Low cost
- Epoxy sealed version available
- 10 Amp switching
- UL, CUR File E43203



### CONTACTS

<b>Arrangement</b>	SPST (1 Form A) SPDT (1 Form C)
<b>Ratings</b>	Resistive load: Max. switched power: 280 W or 1200 VA Max. switched current: 10 A Max. switched voltage: 150* VDC or 400 VAC  *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.
<b>Rated Load UL, CUR</b>	10 A at 120 VAC 10 A at 28 VDC
<b>Material</b>	Silver cadmium oxide
<b>Resistance</b>	< 50 milliohms initially (24 V, 1 A voltage drop method)

### GENERAL DATA

<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 10 A 120 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 65°C (149°F) -40°C (-40°F) to 105°C (221°F)
<b>Vibration</b>	0.040" (1.5 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

### COIL

<b>Power</b>	
<b>At Pickup Voltage (typical)</b>	253 mW
<b>Max. Continuous Dissipation</b>	1.1 W at 20°C (68°F) ambient
<b>Temperature Rise</b>	42°C (76°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.

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

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## RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	1 Form A	1 Form C
3	2.25	6.0	20	AZ765-1A-3D	AZ765-1C-3D
5	3.75	9.9	55	AZ765-1A-5D	AZ765-1C-5D
6	4.5	12.0	80	AZ765-1A-6D	AZ765-1C-6D
9	6.75	18.0	180	AZ765-1A-9D	AZ765-1C-9D
12	9.0	24.0	320	AZ765-1A-12D	AZ765-1C-12D
18	13.5	36.0	720	AZ765-1A-18D	AZ765-1C-18D
24	18.0	48.0	1,280	AZ765-1A-24D	AZ765-1C-24D

\*Add suffix "E" for epoxy sealed version.

## MECHANICAL DATA



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

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