

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

Arrangement	SPST (1 Form A)
Ratings	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.
Rated Load UL, CUR	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
Material	Silver tin oxide
Resistance	< 50 milliohms initially

COIL

Power At Pickup Voltage (typical)	253 mW
Max. Continuous Dissipation	1.3 W at 20°C (68°F) ambient
Temperature Rise	39°C (70°F) at nominal coil voltage
Temperature	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

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 12 A 125 VAC Res.
Operate Time (typical)	8 ms at nominal coil voltage
Release Time (typical)	5 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	2500 Vrms coil to contact 1000 Vrms between open contacts
Insulation Resistance	1000 megohms min. at 20°C 500 VDC 50% RH
Dropout	Greater than 5% of nominal coil voltage
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 85°C (188°F) -40°C (-40°F) to 105°C (221°F)
Vibration	0.040" (1.0 mm) DA at 10–50 Hz
Shock	10 g operating, 100 g damage
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C.
Max. Solder Temp.	270°C (518°F)
Max. Solder Time	5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight	6 grams
Packing unit in pcs	50 per plastic tube / 1500 per carton box

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2004-08-22

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RELAY ORDERING DATA

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

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

Terminal view dimensions: 2 x .039 [1.0] (lead width), 2 x .016 [0.4] (lead height), 2 x .019 [0.5] SQ (lead thickness), terminal positions 1, 2, 3, 4.

PC BOARD LAYOUT

PC Board Layout dimensions: .400 [10.2] (lead spacing), .093 [2.3] (lead width), .070 [1.8] (lead offset), .465 [11.8] (lead height), .539 [13.7] (lead spacing), .078 [2.0] (lead offset).

4 x ϕ .050 [ϕ 1.3] (hole diameter)

Viewed toward terminals

WIRING DIAGRAM

Viewed toward terminals

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

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