

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

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 <small>*Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.</small>
Rated Load UL, CUR	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
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

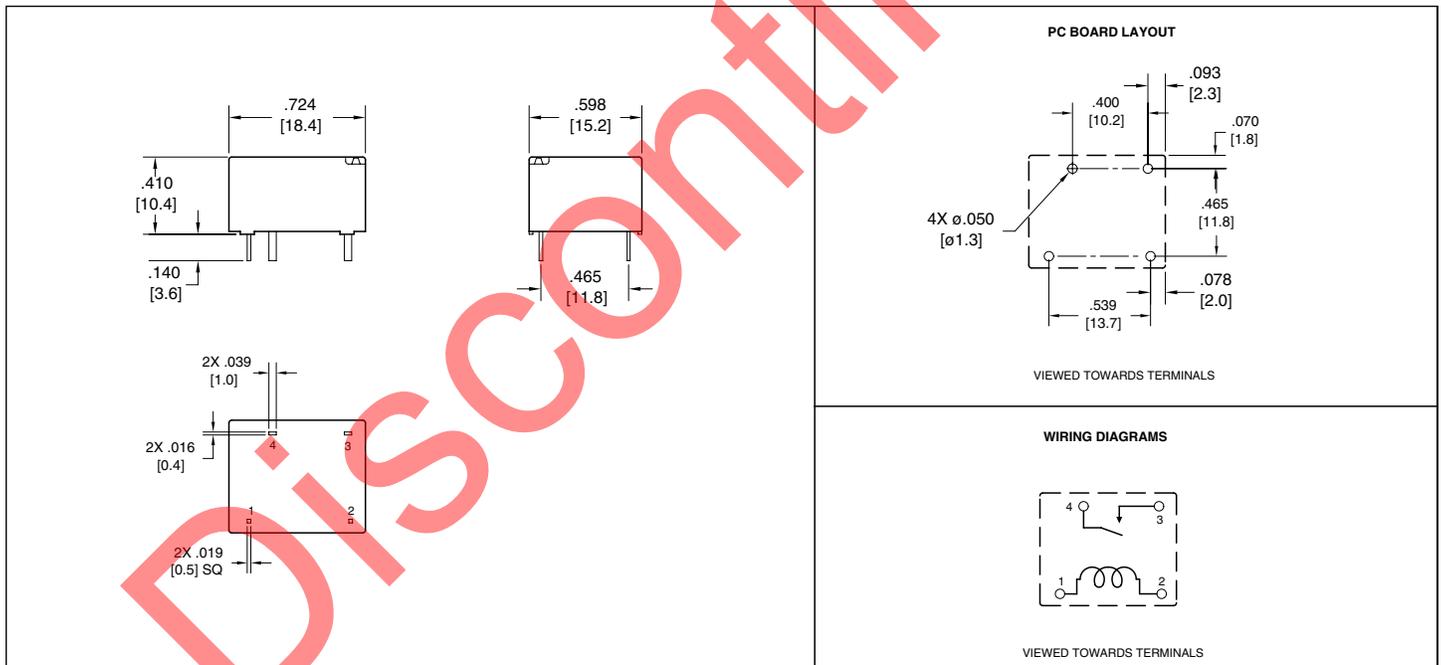
Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 12 A 125 VAC Res.
Operate Time (typical)	8 ms at nominal coil voltage
Release Time (typical)	5 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	2500 Vrms coil to contact 1000 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 130°C (266°F)
Vibration	0.040" 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

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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	3.9	20	AZ766-1A-3D	AZ766-1A-3DE
5	3.75	6.5	55	AZ766-1A-5D	AZ766-1A-5DE
6	4.5	7.8	80	AZ766-1A-6D	AZ766-1A-6DE
9	6.75	11.7	180	AZ766-1A-9D	AZ766-1A-9DE
12	9.0	15.6	320	AZ766-1A-12D	AZ766-1A-12DE
18	13.5	23.4	720	AZ766-1A-18D	AZ766-1A-18DE
24	18.0	31.2	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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This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.