

AZ767

SPDT SUBMINIATURE POWER RELAY

FEATURES

- Low cost
- 10 Amp switching
- Epoxy sealed version available
- UL, CUR file E44211



CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)
Ratings	Resistive Load: Max. switched power: 150 W or 1250 VA Max. switched current: 5 ADC or 10 AAC Sensitive coil Max. switched power: 90 W or 750 VA Max. switched current: 3 A SPDT Max. switched power: 90 W or 750 VA Max. switched current: 3 A Max. switched voltage: 150 VDC* or 380 VAC * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory
Rated Load UL, CUR	Form A 10 A at 125 VAC, Res., 30k cycles 5 A at 30 VDC / 250 VAC, 100k cycles 10 A LRA / 1.5 A FLA at 120 VAC, 100k cycles 1/10 HP at 125 VAC, 100k cycles 1/6 HP at 250 VAC, 100k cycles Sensitive coil 5 A at 125 VAC, Res., 100k cycles 3 A at 30 VDC / 250 VAC, 100k cycles Form C 3 A at 30 VDC / 250 VAC, 100k cycles
Material	Silver cadmium oxide
Resistance	< 100 milliohms initially

COIL

Power	
At Pickup Voltage (typical)	253 mW standard coil 113 mW sensitive coil
Max. Continuous Dissipation	1.25 W at 20°C (68°F) ambient
Temperature Rise (at nominal voltage)	41°C (74°F) standard coil 22°C (40°F) sensitive coil
Temperature	Max. 130°C (266°F)

GENERAL DATA

Life Expectancy	Minimum operations
Mechanical	1 x 10 ⁷
Electrical	1 x 10 ⁵ at 5 A 250 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	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) standard -40°C (-40°F) to 85°C (185°F) sensitive
Storage	-40°C (-40°F) to 105°C (221°F)
Vibration	0.062" (1.5 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 tray / 500 per carton box

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.

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RELAY ORDERING DATA

STANDARD RELAYS					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	Form A (SPST)	Form C (SPDT)
3	2.25	5.0	20	AZ767-1A-3D	AZ767-1C-3D
5	3.75	8.3	55	AZ767-1A-5D	AZ767-1C-5D
6	4.5	10.0	80	AZ767-1A-6D	AZ767-1C-6D
9	6.75	15.0	180	AZ767-1A-9D	AZ767-1C-9D
12	9.0	20.0	320	AZ767-1A-12D	AZ767-1C-12D
18	13.5	30.0	720	AZ767-1A-18D	AZ767-1C-18D
24	18.0	40.0	1,280	AZ767-1A-24D	AZ767-1C-24D

SENSITIVE RELAYS					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	Form A (SPST)	
3	2.25	7.5	45	AZ767-1A-3DS	
5	3.75	12.5	125	AZ767-1A-5DS	
6	4.5	15.0	180	AZ767-1A-6DS	
9	6.75	22.4	400	AZ767-1A-9DS	
12	9.0	30.0	720	AZ767-1A-12DS	
18	13.5	44.7	1,600	AZ767-1A-18DS	
24	18.0	59.2	2,800	AZ767-1A-24DS	

* Add suffix "E" for epoxy sealed version.

MECHANICAL DATA

Top view dimensions: .740 MAX. [18.80] width, .417 MAX. [10.59] height.

Side view dimensions: .614 MAX. [15.59] height, .147 [3.73] terminal height, .073 [1.85] terminal width.

PC BOARD LAYOUT

Dimensions: .073 [1.85] terminal width, .059 [1.50] terminal spacing, .100 [2.54] terminal spacing, .058 [1.49] terminal width, .300 [7.62] terminal spacing, 5 x ϕ .052 [ϕ 1.3] terminal diameter, .441 [11.20] terminal spacing.

Viewed toward terminals

WIRING DIAGRAMS

Form A

Form C

Viewed toward terminals

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

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