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:
SPST-NO	
Standard coil	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
Standard coil	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	At nominal coil voltage
Operating	-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.

ZETTLER electronics GmbH
Junkersstrasse 3, D-82178 Puchheim, Germany
Tel. +49 89 800 97 0 office@ZETTLERelectronics.com
Fax +49 89 800 97 200 www.ZETTLERelectronics.com

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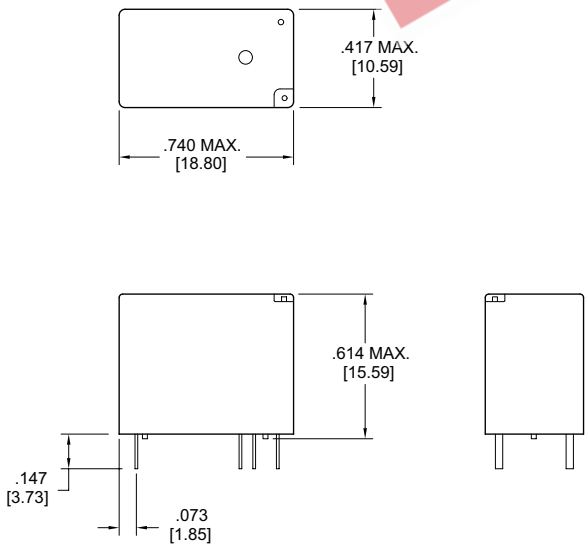
RELAY ORDERING DATA

STANDARD RELAYS					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 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

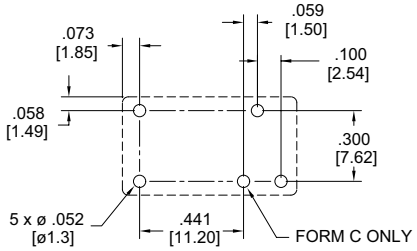
SENSITIVE RELAYS				
COIL SPECIFICATIONS				ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	Form A (SPST)
3	2.25	7.5	45	AZ767–1A–3DS
5	3.75	12.5	125	AZ767–1A–5DS
6	4.5	15.0	180	AZ767–1A–6DS
9	6.75	22.4	400	AZ767–1A–9DS
12	9.0	30.0	720	AZ767–1A–12DS
18	13.5	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

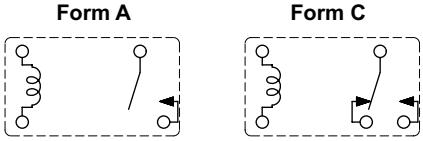


PC BOARD LAYOUT



Viewed toward terminals

WIRING DIAGRAMS



Viewed toward terminals

Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

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