

AZ9402

10 AMP MINIATURE POWER RELAY

FEATURES

- 10 Amp switching capability
- SPST-N.O. and SPDT configurations
- Epoxy sealed version available
- UL, CUR E44211
- TUV pending



CONTACTS

Arrangement	SPST N.O. (1 Form A) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 150 W or 1250 VA N.O. Max. switched current: 10 A Max. switched voltage: 30 VDC* or 277 VAC *Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
UL, CUR	5A at 250 VAC 10A at 125 VAC 4.2A at 277 VAC 1/4 HP at 120/240/277 VAC TV- 5 at 120 VAC Pilot Duty at 24 VA, 24 VAC ;125 VA at 120/240/277 VAC ; C150 at 120 VAC
TUV	5A at 250 VAC 5A at 28 VDC
Material	Silver Cadmium Oxide
Resistance	< 0.1 Ohm (24 V, 1 A voltage drop method)

COIL

Power At Pickup Voltage (typical)	253 mW (Standard Coil)
Max. Continuous Dissipation	1.25 W at 20°C (68°F)
Temperature Rise	40°C (72°F) (Standard Coil)
Temperature	Max. 105°C (221°F)

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 10 A 120 VAC Res.
Operate Time (max.)	8 ms at nominal coil voltage
Release Time (max.)	5 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	1000 Vrms contact to contact 4000 Vrms contact to coil
Insulation Resistance	1 x 10 ⁹ ohms minimum at 500 VDC
Dropout	Greater than 5% of nominal coil voltage
Ambient Temperature Operating	At nominal coil voltage -40°C (-40°F) to 70°C (158°F)
Storage	-40°C (-40°F) to 105°C (221°F)
Vibration	0.062" DA at 10–55 Hz
Shock Mechanical	100 g for 11 ms 1/2 sine pulse
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	7 grams

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.



AMERICAN ZETTLER, INC.

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RELAY ORDERING DATA

COIL SPECIFICATIONS – Standard Coil (SPDT and SPST)				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	SPST-NO	SPDT
3	2.25	3.3	20	AZ9402-1A-3D	AZ9402-1C-3D
5	3.75	5.5	56	AZ9402-1A-5D	AZ9402-1C-5D
6	4.5	6.6	80	AZ9402-1A-6D	AZ9402-1C-6D
9	6.75	9.9	180	AZ9402-1A-9D	AZ9402-1C-9D
12	9.0	13.2	320	AZ9402-1A-12D	AZ9402-1C-12D
18	13.5	19.8	720	AZ9402-1A-18D	AZ9402-1C-18D
24	18.0	26.4	1280	AZ9402-1A-24D	AZ9402-1C-24D

*Add suffix "E" for sealed version

MECHANICAL DATA

Top view dimensions: .807 max. [20.50], .417 max. [10.59], .614 max. [15.60], .016 [0.40], 5 x .150 [3.8]

Side view dimensions: .417 max. [10.59]

Bottom view dimensions: 5 x .031 [0.8], 5 x .012 \pm .005 [0.31 \pm 0.12]

PC BOARD LAYOUT

Dimensions: .054 [1.36], .400 [10.16], .300 [7.62], .058 [1.49], .300 [7.62], 5 x ϕ .051 [ϕ 1.3], .100 [2.54]

*omitted from Form A

WIRING DIAGRAM

FORM A

FORM C

VIEWED TOWARD TERMINALS

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



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