

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

PC BOARD LAYOUT

*omitted from Form A

WIRING DIAGRAM

VIEWED TOWARD TERMINALS

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

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PHONE: (949) 831-5000

www.azettler.com

E-MAIL: SALES@AZETTLER.COM

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.