

AZ9201

ULTRA-SENSITIVE SUBMINIATURE RELAY

FEATURES

- Extremely small footprint utilizing only 0.16 square inch (108 square mm) of PCB area
- Thin vertical profile only 0.2 inch (5.08mm) wide
- Slim SIP package
- 1 Form A contact with up to 5 Amp switching capability
- High sensitivity, 58 mW pickup
- Dielectric strength 2000 Vrms contact to coil
- UL, CUR file E43203



CONTACTS

Arrangement	SPST (1 Form A), single button contact or bifurcated
Ratings	Resistive load: Max. switched power: 150 W or 1250 VA Max. switched current: 5 A Max. switched voltage: 110* VDC or 250 VAC 5 A at 30 VDC or 250 VAC
UL Rating:	
VDE	5 A at 30 VDC or 250 VAC Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Material	Silver alloy with gold clad
Resistance	< 50 milliohms initially (1 A, 6 VDC method)

COIL

Power	
At Pickup Voltage (typical)	58 mW (5-18 V and 24 V sensitive coils) 88 mW (24 V coil)
Max. Continuous Dissipation	1.3 W at 20°C (68°F) ambient
Temperature Rise	12°C (22°F) at nominal coil voltage (5-18 V coils) 17°C (31°F) at nominal coil voltage (24 V coil)
Temperature	Max. 115°C (239°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	Minimum operations
Mechanical	20 million operations
Electrical	1 X 10 ⁵ at 5 A, 30 VDC or 250 VAC
Operate Time (typical)	10 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.)	1000 Vrms between open contacts 2000 Vrms contact to coil
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature	At nominal coil voltage
Operating	-40°C (-40°F) to 85°C (185°F)
Storage	-40°C (-40°F) to 115°C (239°F)
Vibration	0.062" DA at 10–55 Hz
Shock	15 g
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	3 grams



AMERICAN ZETTLER, INC.

www.azettler.com

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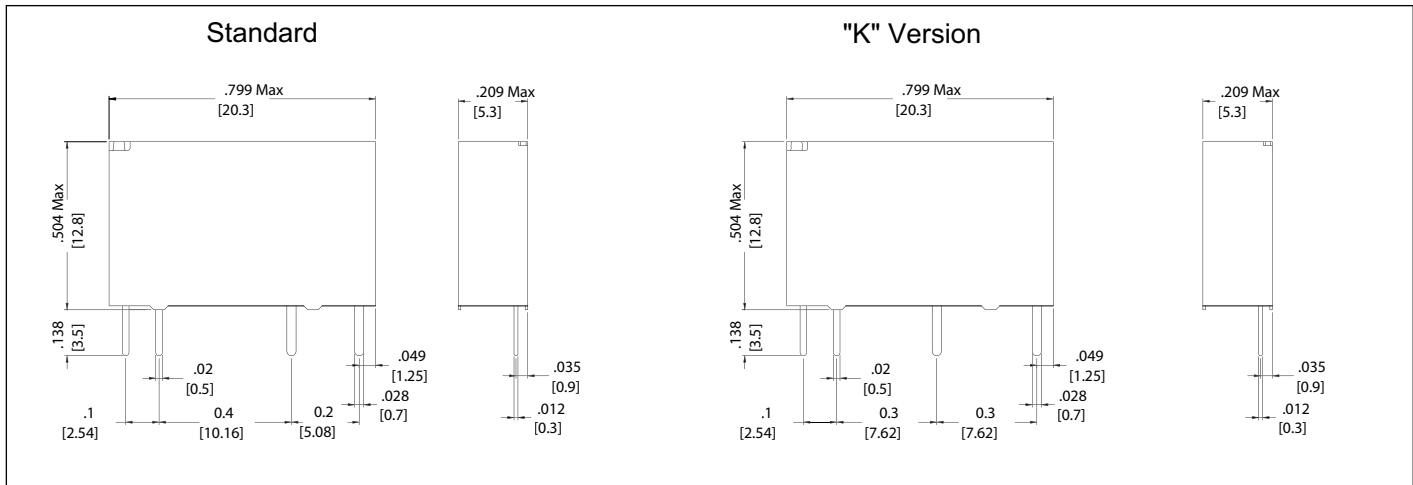
AZ9201

RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Form A (SPST)
5	3.5	16.5	208	AZ9201-1A-5D
6	4.2	19.9	300	AZ9201-1A-6D
9	6.3	29.8	675	AZ9201-1A-9D
12	8.4	39.8	1200	AZ9201-1A-12D
18	12.6	59.6	2700	AZ9201-1A-18D
24	16.8	65.0	3200	AZ9201-1A-24D

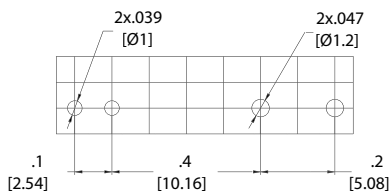
*Add suffix "K" for 0.3 inch terminal spacing. Add suffix E for epoxy sealed version.

MECHANICAL DATA

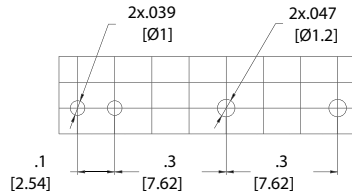


PCB BOARD LAYOUT

Standard



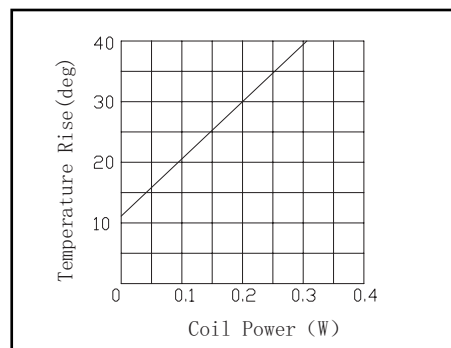
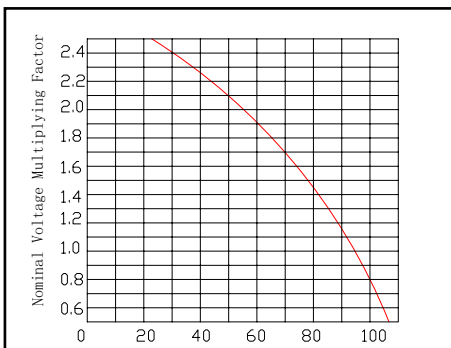
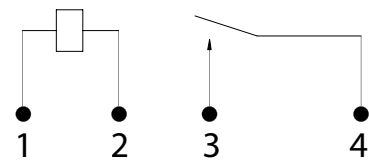
"K" Version



(Viewed Toward Terminals)

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

WIRING DIAGRAM



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