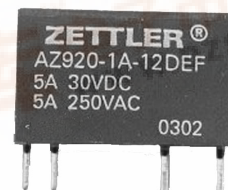


AZ920

ULTRA-SENSITIVE SUBMINIATURE RELAY

FEATURES

- Extremely small footprint utilizing only 0.16 square inch of PCB area
- Thin vertical profile only 0.2" wide
- Slim SIP package
- 1 Form A contact with up to 5 Amp switching capability
- High sensitivity, 58 mW pickup
- Dielectric strength 2500 Vrms contact to coil
- Epoxy sealed
- UL, CUR file E43203
- TÜV file R50018790



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: 150* VDC or 250 VAC *Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load UL, CUR	5 A at 30 VDC or 250 VAC General Use, 100k cycles [1]
TÜV	5 A at 30 VDC or 250 VAC Resistive, 100k cycles [1] 3 A at 30 VDC or 250 VAC General Use, 75k cycles [2] 3 A at 30 VDC or 250 VAC Resistive, 75k cycles [2] [1] Single button contacts [2] Bifurcated contacts
Material	Silver nickel (single button or bifurcated contacts), or silver tin oxide (single button contacts), gold plating available
Resistance	< 50 milliohms initially

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 20 million operations 1 X 10 ⁵ at 5 A, 30 VDC or 250 VAC
Operate Time (typical)	6 ms at nominal coil voltage
Release Time (typical)	3 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	1000 Vrms between open contacts 2500 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 Operating Storage	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F)
Vibration	0.062" (1.5 mm) 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
Packing unit in pcs	100 per plastic tube / 1000 per carton box

COIL

Power	
At Pickup Voltage (typical)	58 mW (5-18 V coils) 88 mW (24 V coil)
Max. Continuous Dissipation	1.3 W at 20°C (68°F) ambient
Temperature Rise at nominal coil voltage	12°C (22°F) 5-18 V coils 17°C (31°F) 24 V coil
Temperature	Max. 130°C (266°F) Class B Max. 155°C (311°F) Class 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.

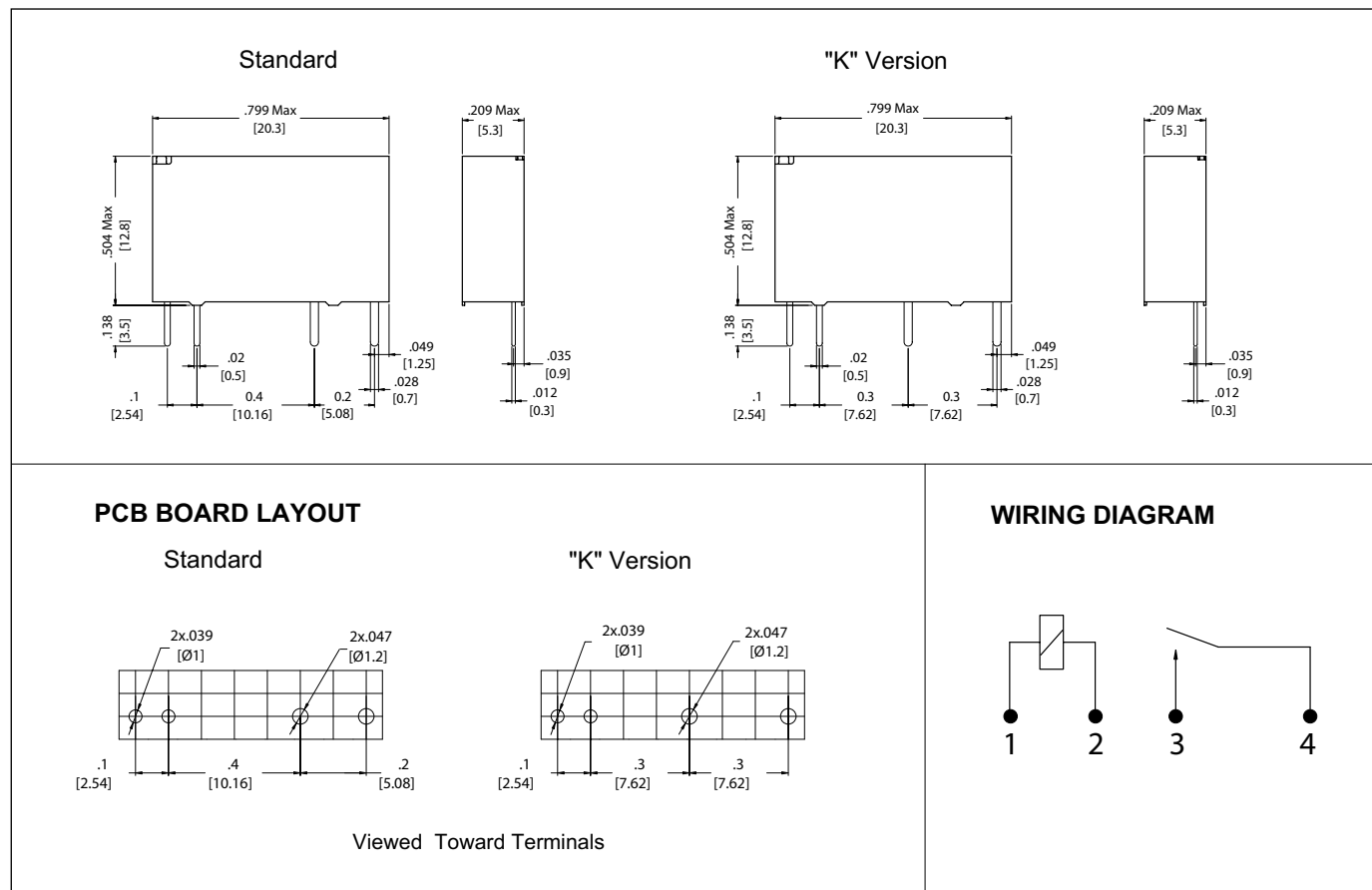
AZ920

RELAY ORDERING DATA

COIL SPECIFICATIONS				
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	ORDER NUMBER*
5	3.5	16.5	208	AZ920-1A-5DE
6	4.2	19.9	300	AZ920-1A-6DE
9	6.3	29.8	675	AZ920-1A-9DE
12	8.4	39.8	1,200	AZ920-1A-12DE
18	12.6	59.6	2,700	AZ920-1A-18DE
24	16.8	65.0	3,200	AZ920-1A-24DE

* Substitute "-1AB" in place of "-1A" for bifurcated silver nickel contacts. Substitute "-1AH" in place of "-1A" for silver tin oxide contacts. Add suffix "A" for gold plated contacts. Add suffix "K" for .3 inch terminal spacing. Add suffix "F" for Class F insulation.

MECHANICAL DATA



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