

ULTRA-SENSITIVE SUBMINIATURE RELAY

FEATURES

- 5 Amp switching capability
- Extremely small footprint utilizing only 0.16 square inch of PCB area
- Thin vertical profile only 0.2" wide
- Dielectric strength 3000Vrms contact to coil
- · Bifurcated contacts available
- · Epoxy sealed
- Class B (130°C) standard
- Class F (155°C) versions available
- UL,CUR file E43203
- TÜV 50243813

CONTACTS

Arrangement	SPST (1 Form A), single button contact or bifurcated
Ratings	Resistive load: Max. switched power: 150W or 1250VA Max. switched current: 5A Max. switched voltage: 150VDC* or 250VAC Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load UL, CUR	5A at 250VAC, Resistive, 50k cycles [1][2][3] 3A at 250VAC, Resistive, 100k cycles [1][2][3] 5A at 30VDC, Resistive, 50k cycles [1][2][3] 3A at 30VDC, Resistive, 100k cycles [1][2][3] B300 pilot duty [3] R300 pilot duty [3]
ΤÜV	5A at 250VAC, Resistive, 50k cycles [3] 5A at 250VAC, Resistive, 100k cycles [1][2] 5A at 30VDC, Resistive, 50k cycles [3] 5A at 30VDC, Resistive, 100k cycles [1][2]
Material	Silver nickel (single button contact) [1] Silver nickel, gold plated (bifurcated contact) [2] Silver tin oxide (single button contact) [3] Gold plating available
Resistance	< 50 milliohms initially (1A, 6VDC method)

COIL

Power			
At Pickup Voltage (typical)	58mW (5 - 18VDC) 88mW (24VDC)		
Max. Continuous Dissipation	1.3W 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. 130°C (266°F) Class B Max. 155°C (311°F) Class F		



GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 20 million operations 1 X 10 ⁵ at 5A, 30VDC or 250VAC		
Operate Time (typical)	10ms at nominal coil voltage		
Release Time (typical)	5ms at nominal coil voltage (with no coil suppression)		
Dielectric Strength (at sea level for 1 min.)	1000Vrms between open contacts 3000Vrms contact to coil		
Insulation Resistance	1000 megohms min. at 20°C, 500VDC, 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 130°C (266°F)		
Vibration	0.062" (1.5mm) DA at 10–55Hz		
Shock	10g		
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		

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.

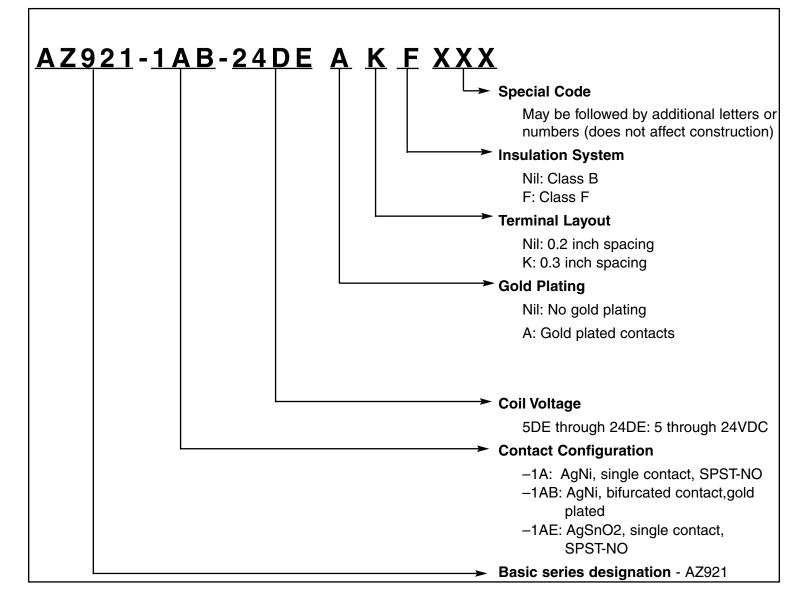
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RELAY ORDERING DATA

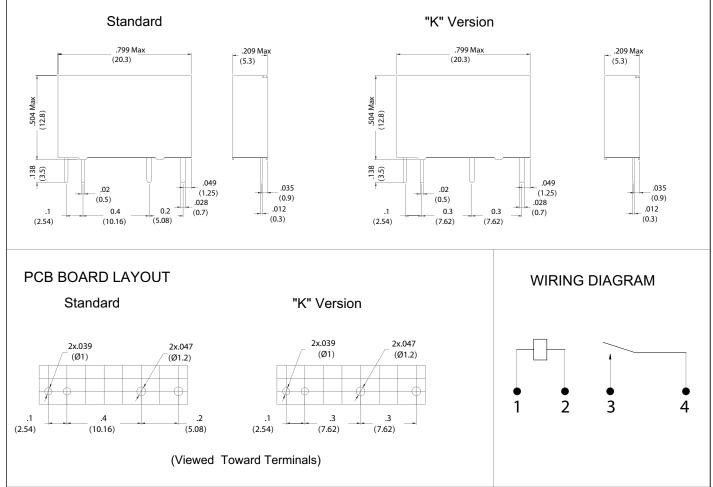


Coil Specifications					
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance Ohms ± 10%	Must Operate VDC		
5	16.5	208	3.5		
6	19.9	300	4.2		
9	29.8	675	6.3		
12	39.8	1200	8.4		
18	59.6	2700	12.6		
24	65.0	3200	16.8		

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MECHANICAL DATA



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



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.