

AZ6951

SENSITIVE SUBMINIATURE RELAY

FEATURES

- Extremely small footprint
- Thin vertical profile (6.5 mm)
- 5 Amp switching
- High sensitivity, 100 mW pickup
- Dielectric strength 3000 Vrms contact to coil
- Insulation spacing greater than 6 mm
- Epoxy sealed
- UL, CUR file E43203



CONTACTS

Arrangement	SPST (1 Form A)
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
Material	Silver tin oxide or silver tin oxide gold plated
Resistance	< 50 milliohms initially

COIL

Power At Pickup Voltage (typical)	100 mW
Temperature Rise	25°C (45°F) at nominal coil voltage
Temperature	Max. 105°C (221°F)

NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Minimum contact load: AgSnO contact: 100 mA at 5 VDC, AgSnO contact with gold plating: 10 mA at 5 VDC
4. Specifications subject to change without notice.

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 20 million operations 1 X 10 ⁵ at 3 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.)	750 Vrms between open contacts 3000 Vrms contact to coil
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH
Insulation (according to DIN VDE 0110, IEC 60664-1)	Overvoltage category: III Pollution degree: 3 Nominal voltage: 250 VAC
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) -40°C (-40°F) to 105°C (221°F)
Vibration	0.062" DA at 10–55 Hz
Shock	10 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	25 per plastic tube / 1000 per carton box

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RELAY ORDERING DATA

COIL SPECIFICATIONS				
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	ORDER NUMBER*
5	3.5	6.5	125	AZ6951-5
6	4.2	7.8	180	AZ6951-6
9	6.3	11.7	405	AZ6951-9
12	8.4	15.6	720	AZ6951-12
18	12.6	23.4	1,620	AZ6951-18
24	16.8	31.2	2,880	AZ6951-24

* Add suffix "G" for gold plated contacts.

Note: If the relay is mounted upside down, the must operate voltage is 75% or less of the nominal voltage.

MECHANICAL DATA

Side view dimensions: 0.02 [0.50], 0.689 [17.50], 0.02 [0.50], 0.26 [6.50], 0.488 [12.40], 0.138 [3.50], 0.012 [0.30].

Bottom view dimensions: 0.02 [0.50], 0.031 [0.80], 0.02 [0.50], 0.044 [1.13], 0.1 [2.54], 0.3 [7.62], 0.2 [5.08].

PC BOARD LAYOUT

4 x $\phi .043$ [$\phi 1.1$]

0.2 (5.08), 0.3 (7.62), 0.1 (2.54)

Viewed toward terminals

WIRING DIAGRAM

Viewed toward terminals

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

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