AZ6991_

SENSITIVE SUBMINIATURE RELAY

FEATURES

- Extremely small (5mm)
- 6 Amp switching capability
- High sensitivity, 95 mW pickup
- Dielectric strength 4000 Vrms contact to coil
- Isolation spacing greater than 8 mm
- Reinforced insulation, EN 60730-1 (VDE 0631, part 1) EN 60335-1 (VDE 0700, part 1)
- Coils up to 60 VDC
- · Epoxy sealed version available
- UL, CUR file E43203
- VDE file 40020561

CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)					
Ratings	Resistive load:					
	Max. switched power: 180 W or 1500 VA Max. switched current: 6 A Max. switched voltage: 150 VDC* or 400 VAC * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.					
Rated Load						
UL, CUR	6 A at 277 VAC resistive 6 A at 30 VDC resistive					
	R300 Pilot Duty					
VDE	6 A at 250 VAC resistive 6 A at 30 VDC resistive					
Material	Silver nickel, gold plating available					
Resistance	< 50 milliohms initially					

COIL

Power				
At Pickup Voltage (typical)	95 mW			
Max. Continuous Dissipation	0.9 W at 20°C (68°F) ambient			
Temperature Rise	20°C (36°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.
- 4. Specifications subject to change without notice.



GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 X 10 ⁷ operations 1 X 10 ⁵ at 5 A, 250 VAC			
Operate Time (typical)	5 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 4000 Vrms contact to coil 6000 V surge, contact to coil			
Insulation Resistance	100 megohms min. at 20°C, 500 VDC, 50% RH			
Dropout	Greater than 5% of nominal coil voltage			
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 85°C (158°F) -40°C (-40°F) to 105°C (221°F)			
Vibration	1 mm DA at 10–500 Hz			
Shock	5 g			
Enclosure	P.B.T. polyester 94V-0			
Terminals	Tinned copper alloy, P.C.			
Max. Solder Temp.	260°C (500°F)			
Max. Solder Time	5 seconds			
Max. Solvent Temp.	80°C (176°F)			
Max. Immersion Time	30 seconds			
Weight	6 grams			
Packing unit in pcs	20 per plastic tube / 1000 per carton box			

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RELAY ORDERING DATA

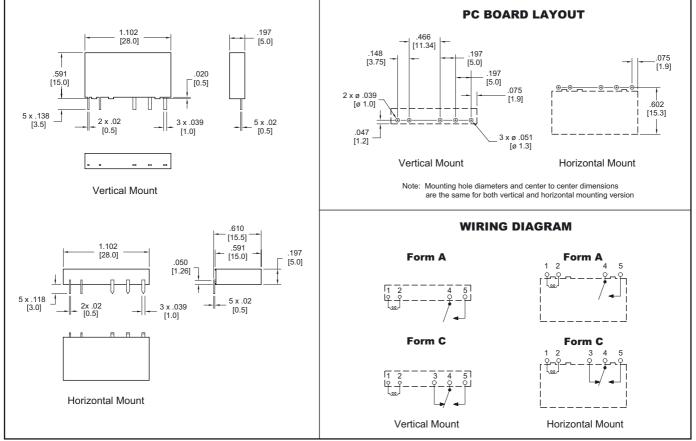
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ôhm ± 10%	1 Form A	1 Form C
5	3.75	11.2	147	AZ6991–1A–5D	AZ6991–1C–5D
12	9.0	26.8	848	AZ6991–1A–12D	AZ6991–1C–12D
24	18.0	53.7	3,390 (±15%)	AZ6991–1A–24D	AZ6991–1C–24D
48	36.0	100.0	10,600 (±15%)	AZ6991–1A–48D	AZ6991–1C–48D
60	45.0	120.0	16,600 (±15%)	AZ6991–1A–60D	AZ6991–1C–60D

* Add suffix "E" at the end of order number for sealed version.

Add suffix "A" at the end of order number for gold plated contacts.

Add suffix "H" at the end of order number for horizontal mounting.

MECHANICAL DATA



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

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