AZ6991

SENSITIVE SUBMINIATURE RELAY

FEATURES

- Extremely small footprint utilizing only 0.22 square inch of PCB area
- Thin vertical profile only 0.196" wide, horizontal version available
- 8 Amp switching capability
- High sensitivity, 95 mW pickup
- Dielectric strength 4000 Vrms contact to coil
- Coils to 60 VDC
- Epoxy sealed version for wave soldering and cleaning available
- Isolation spacing greater than 8 mm
- 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 1662 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	8A at 277 VAC resistive (Form A and C N.O.) 6A at 277 VAC resistive (Form C N.C.) 6A at 30 VDC resistive R300, B300 Pilot Duty
VDE	6A at 250 VAC resistive 6A at 30 VDC resistive
Material	Silver nickel, Silver Tin Optional gold plating
Resistance	< 50 milliohms initially (24 V voltage drop method)

COIL

Power				
At Pickup Voltage (typical)	95 mW			
Max. Continuous Dissipation	1.0 W at 20°C (68°F) ambient			
Temperature Rise	20°C (36°F) at nominal coil voltage			
Temperature	Max. 105°C (221°F)			



GENERAL DATA

	Minimum operations 10 million operations 3 X 10 ⁴ at 6 A, 30 VDC or 250 VAC Res.		
Operate Time (typical)	8 ms at nominal coil voltage		
Release Time (typical)	4 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		
	100 megohms min. at 20°C, 500 VDC, 50% RH		
Dropout	Greater than 10% of nominal coil voltage		
Operating .	At nominal coil voltage -40°C (-40°F) to 85°C (158°F) -40°C (-40°F) to 105°C (221°F)		
Vibration	0.062" DA 10–55 Hz		
Shock	10 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		

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.



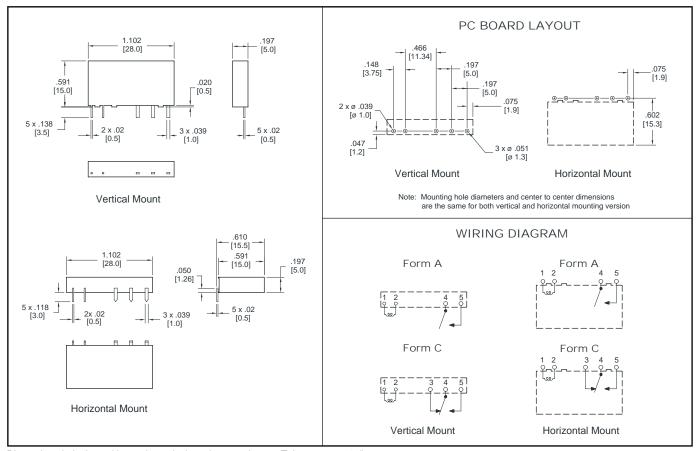
AZ6991

RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance	Unsealed	Sealed
3	2.25	6.9	53 ± 10%	AZ6991-1A-3D	AZ6991-1A-3DE
5	3.75	11.5	147 ± 10%	AZ6991-1A-5D	AZ6991-1A-5DE
6	4.50	13.8	212 ± 10%	AZ6991-1A-6D	AZ6991-1A-6DE
9	6.75	20.7	476 ± 10%	AZ6991-1A-9D	AZ6991-1A-9DE
12	9.00	27.6	848 ± 10%	AZ6991-1A-12D	AZ6991-1A-12DE
18	13.5	41.4	1906 ± 15%	AZ6991-1A-18D	AZ6991-1A-18DE
24	18.0	55.2	3390 ± 15%	AZ6991-1A-24D	AZ6991-1A-24DE
48	36.0	97.7	10600 ± 15%	AZ6991-1A-48D	AZ6991-1A-48DE
60	45.0	122.2	16600 ± 15%	AZ6991-1A-60D	AZ6991-1A-60DE

^{*}Substitute "-1C" for "-1A" to indicate 1 Form C contacts. Add "E" after 1A or 1C for Silver Tin contacts. Add suffix "A" for gold plated contacts. Add suffix "H" for horizontal version.

MECHANICAL DATA



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