SENSITIVE SUBMINIATURE RELAY

FEATURES

- Extremely small (5mm)
- 6 Amp switching capability
- High sensitivity, 83 mW pickup
- Dielectric strength 4000 Vrms contact to coil
- Coils up to 48 VDC
- · Epoxy sealed
- Clearance greater than 6 mm
- Creepage greater than 8 mm
- UL, CUR file E43203
- VDE file 40000296



CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)			
Ratings	Resistive load:			
	Max. switched power: 150 W or 1500 VA Max. switched current: 6 A Max. switched voltage: 300 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 250 VAC resistive			
VDE	6 A at 250 VAC resistive			
Material	Silver tin oxide, gold plating available			
Resistance	< 100 milliohms initially (AgSnO ₂) < 30 milliohms initially (AgSnO ₂ , gold plated)			

COIL

Power			
At Pickup Voltage (typical)	83 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.
- Minimum permissible contact load: AgSnO₂ contact: 100 mA at 12 VDC AgSnO₂ contact with gold plating: 10 mA at 5 VDC
- 4. Specifications subject to change without notice.

GENERAL DATA

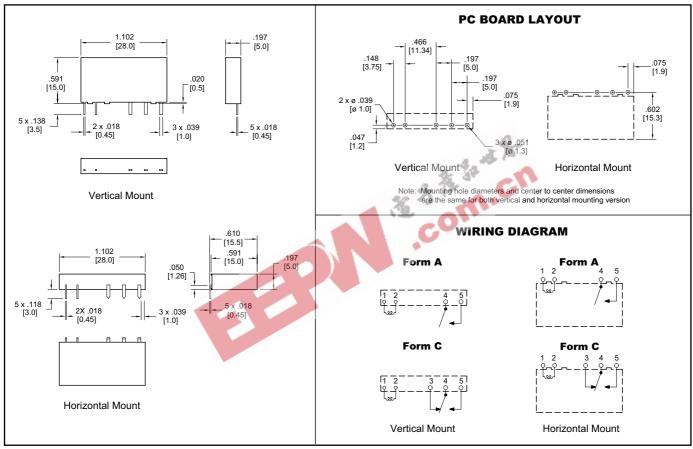
Life Expectancy Mechanical Electrical	Minimum operations 1 X 10 ⁷ operations 1 X 10 ⁵ at 5 A, 250 VAC		
Operate Time (typical)	5 ms at nominal coil voltage		
Release Time (typical)	3 ms at nominal coil voltage (with no coil suppression)		
Dielectric Strength (at sea level for 1 min.)	1000 Vrms between 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	5 g at 10–500 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		
Weight	6 grams		
Packing unit in pcs	20 per plastic tube / 1000 per carton box		

RELAY ORDERING DATA

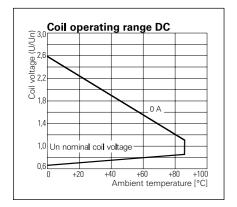
COIL SPECIFICATIONS			ORDER NUMBER*		
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ôhm ± 10%	AgSnO ₂ Contact	AgSnO ₂ with Gold Plated Contact
5	3.5	11.2	147	AZ699-1C-5DE	AZ699-1C-5DEA
12	8.4	26.8	848	AZ699-1C-12DE	AZ699-1C-12DEA
24	16.8	53.7	3,390	AZ699-1C-24DE	AZ699-1C-24DEA
48	33.6	100.0	10,600 (±15%)	AZ699-1C-48DE	AZ699-1C-48DEA

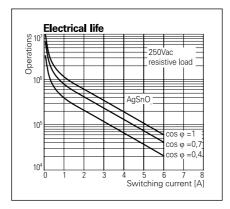
^{*}Substitute "1A" for "1C" to indicate 1 Form A contacts. Add suffix "H" at the end of order number for horizontal mounting.

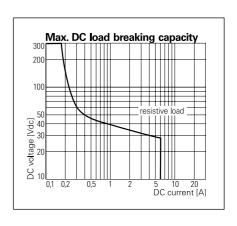
MECHANICAL DATA



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







ZETTLER electronics GmbH