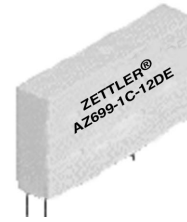


AZ699

SENSITIVE SUBMINIATURE RELAY

FEATURES

- Extremely small footprint utilizing only 0.22 square inch of PCB area
- Thin vertical profile only 0.196" wide
- 6 Amp switching capability
- High sensitivity, 83 mW pickup
- Dielectric strength 4000 Vrms contact to coil
- Coils to 48 VDC
- Epoxy sealed for automatic wave soldering and cleaning
- Isolation spacing greater than 8 mm



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: 150* VDC or 400 VAC Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Material	Options: AgSnO ₂ (AgCdO) AgSnO ₂ with gold plating
Resistance	< 100 milliohms initially (AgSnO ₂ , 24 V method) < 30 milliohms initially (AgSnO ₂ , gold plated)

COIL

Power At Pickup Voltage (typical)	83 mW
Max. Continuous Dissipation	1.2 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.
3. Minimum permissible contact load:
AgSnO₂ contact: 500 mA at 12 VDC
AgSnO₂ contact with gold plating: μ W
4. Specifications subject to change without notice.

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 20 million operations 1 X 10 ⁵ at 6 A, 30 VDC or 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 10% 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	0.062" DA at 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
Weight	6 grams

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Logistic Design (UK) Limited. Unit 3, Eagle Centre Way, Luton LU4 9US www.zettlerrelay.com sales@zettlerrelay.com
Telephone +44 (0) 1582 599 600 Fax +44 (0) 1582 599 700

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RELAY ORDERING DATA

COIL SPECIFICATIONS- Vertical Mount				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	AgSnO ₂ Contact	AgSnO ₂ with Gold Plated Contact
5	13	119	3.5	AZ699-1C-5DE	AZ699-1C-5DEA
12	32	848	8.4	AZ699-1C-12DE	AZ699-1C-12DEA
24	64	3390	16.8	AZ699-1C-24DE	AZ699-1C-24DEA
48	110	10600	32.0	AZ699-1C-48DE	AZ699-1C-48DEA

*Substitute "1A" for "1C" to indicate 1 Form A contacts. Add suffix "H" for horizontal mounting.

MECHANICAL DATA

VERTICAL MOUNT

HORIZONTAL MOUNT

PC BOARD LAYOUT
VIEWED TOWARD TERMINALS

NOTE: MOUNTING HOLE DIAMETERS AND CENTER TO CENTER DIMENSIONS ARE THE SAME FOR BOTH VERTICAL AND HORIZONTAL MOUNTING VERSIONS

WIRING DIAGRAM
VIEWED TOWARD TERMINALS

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

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