AZ697

10 AMP MINIATURE POWER RELAY

FEATURES

- Dielectric strength 5000 Vrms
- 10 Amp switching — single pole contacts
- UL TV-5
- Isolation spacing greater than 8mm (1 Form A) 6mm (1 Form C)
- Epoxy sealed version available
- UL, CUR file E44211
- TÜV file R9659061

CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 300 W or 2500 VA Max. switched current: 10 A Max. switched voltage: 150 VDC* or 380 VAC * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load	
UL, CUR	TV-5 120 AC 10 A 277 VAC 10 A 30 VDC resistive $^1/_3$ HP 250 VAC $^1/_4$ HP 125 VAC N. O.
TÜV	10 A 250 VAC, 30 VDC resistive, 100k cycles
Material	Silver cadmium oxide
Resistance	< 50 milliohms initially

COIL

Power	
At Pickup Voltage (typical)	257 mW
Max. Continuous Dissipation	1.9 W at 20°C (68°F) ambient
Temperature Rise	34°C (61°F) nominal coil voltage
Temperature	Max. 130°C (266°F)

GENERAL DATA

Life Expectancy **Mechanical** **Electrical**	Minimum operations 1 x 10^7 1 x 10^5 at 10 A 250 VAC Res.
Operate Time (typical)	8 ms at nominal coil voltage
Release Time (typical)	5 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	5000 Vrms coil to contact 1000 Vrms between open contacts
Insulation Resistance	1000 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 (185°F) -40°C (-40°F) to 105°C (221°F)
Vibration	0.062" (1.5 mm) 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	18 grams
Packing unit in pcs	50 per plastic tray / 500 per carton box

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.

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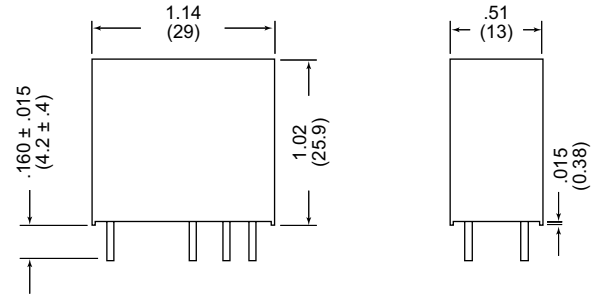
RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm	Form A (SPST)	Form C (SPDT)
3	2.1	5.7	17 ±10%	AZ697–1A–3D	AZ697–1C–3D
5	3.5	9.4	47 ±10%	AZ697–1A–5D	AZ697–1C–5D
6	4.2	11.4	68 ±10%	AZ697–1A–6D	AZ697–1C–6D
9	6.3	17.4	160 ±10%	AZ697–1A–9D	AZ697–1C–9D
12	8.4	22.8	275 ±10%	AZ697–1A–12D	AZ697–1C–12D
18	12.6	27.9	650 ±10%	AZ697–1A–18D	AZ697–1C–18D
24	16.8	45.7	1,100 ±15%	AZ697–1A–24D	AZ697–1C–24D
48	33.6	89.0	4,170 ±15%	AZ697–1A–48D	AZ697–1C–48D
60	42.0	115.3	7,000 ±15%	AZ697–1A–60D	AZ697–1C–60D
110 **	79.3	170.5	22,900 ±15%	AZ697–1A–110D	AZ697–1C–110D

*Add suffix “E” for epoxy sealed version. ** 110VDC coil not TÜV approved.

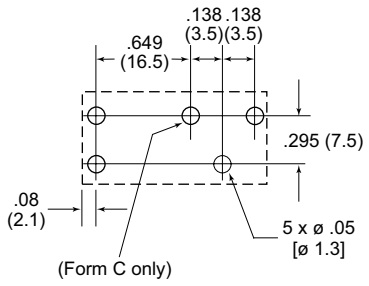
MECHANICAL DATA

Form A and C



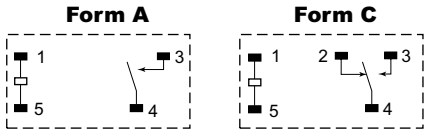
Terminal No.	Dimensions Tol.: ± 0.005 (0.13)
1,2,3,5	0.018 (0.457) x 0.038 (0.965)
4	0.011 (0.279) x 0.038 (0.965)

PC BOARD LAYOUT



Viewed toward terminals

WIRING DIAGRAMS



Viewed toward terminals

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

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