# 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/ <sub>3</sub> HP 250 VAC 1/ <sub>4</sub> HP 125 VAC N. O.				
τϋν	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)		

### 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.

## ZETTLER electronics GmbH

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## GENERAL DATA

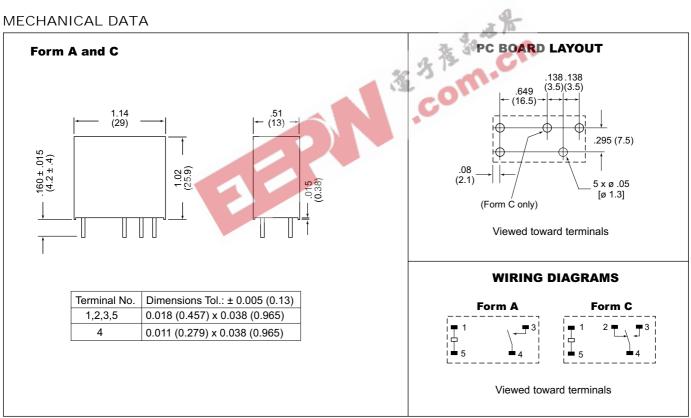
Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 10 A 250 VAC Res.				
Operate Time (typical)	8 ms at nominal coil voltage				
Release Time (typical)	5 ms at nominal coil voltage (with no coil suppression)				
Dielectric Strength (at sea level for 1 min.)	5000 Vrms coil to contact 1000 Vrms between open contacts				
Insulation Resi <mark>s</mark> tance	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				

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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–110E

\*Add suffix "E" for epoxy sealed version. \*\* 110VDC coil not TÜV approved.



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

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