

# 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



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.		
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)				

# 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.



# GENERAL DATA

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Life Expectancy	Minimum operations			
Mechanical	1 x 10 <sup>7</sup>			
Electrical	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			
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Insulation Resistance	1000 megohms min. at 20°C, 500 VDC 50% RH			
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Dropout	Greater than 10% of nominal coil voltage			
Ambient Temperature	At nominal coil voltage			
Operating	-40°C (-40°F) to 85°C (185°F)			
Storage	-40°C (-40°F) to 105°C (221°F)			
Vibration	0.062" (1.5 mm) DA at 10–55 Hz			
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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			

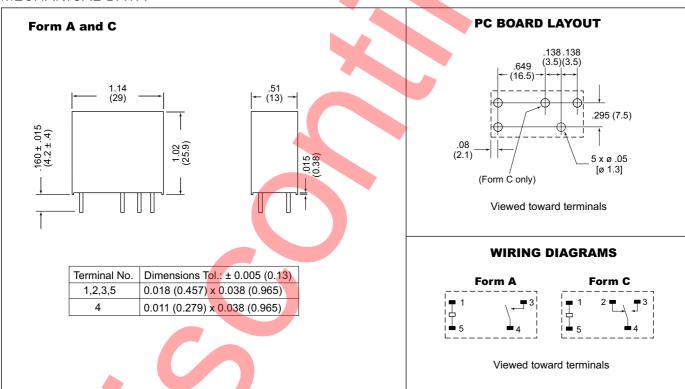
# AZ697\_\_\_

### **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

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

#### MECHANICAL DATA



Tel. +49 89 800 97 0

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