

# 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

<b>Arrangement</b>	SPST (1 Form A) SPDT (1 Form C)
<b>Ratings</b>	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.
<b>Rated Load UL, CUR</b>	TV-5 120 AC 10 A 277 VAC 10 A 30 VDC resistive 1/3 HP 250 VAC
<b>TÜV</b>	1/4 HP 125 VAC N. O. 10 A 250 VAC, 30 VDC resistive, 100k cycles
<b>Material</b>	Silver cadmium oxide
<b>Resistance</b>	< 50 milliohms initially

### GENERAL DATA

<b>Life Expectancy Mechanical Electrical</b>	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 10 A 250 VAC Res.
<b>Operate Time (typical)</b>	8 ms at nominal coil voltage
<b>Release Time (typical)</b>	5 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	5000 Vrms coil to contact 1000 Vrms between open contacts
<b>Insulation Resistance</b>	1000 megohms min. at 20°C, 500 VDC 50% RH
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<b>Ambient Temperature Operating Storage</b>	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F)
<b>Vibration</b>	0.062" (1.5 mm) DA at 10–55 Hz
<b>Shock</b>	10 g
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Max. Solder Temp.</b>	270°C (518°F)
<b>Max. Solder Time</b>	5 seconds
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	18 grams
<b>Packing unit in pcs</b>	50 per plastic tray / 500 per carton box

### COIL

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

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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		PC BOARD LAYOUT						
		<p>Viewed toward terminals</p>						
<table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Dimensions Tol.: ± 0.005 (0.13)</th> </tr> </thead> <tbody> <tr> <td>1,2,3,5</td> <td>0.018 (0.457) x 0.038 (0.965)</td> </tr> <tr> <td>4</td> <td>0.011 (0.279) x 0.038 (0.965)</td> </tr> </tbody> </table>		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)	<h3>WIRING DIAGRAMS</h3> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>Form A</b></p> </div> <div style="text-align: center;"> <p><b>Form C</b></p> </div> </div> <p>Viewed toward terminals</p>
Terminal No.	Dimensions Tol.: ± 0.005 (0.13)							
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Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

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