

# AZ932

## 15 AMP MINIATURE PC BOARD RELAY

### FEATURES

- High performance
- Low seated height
- Flux tight and sealed versions available
- Class F insulation (155°C) system available
- Class B Insulation (130°C) standard
- UL, CUR file E43203



### CONTACTS

<b>Arrangement</b>	SPST - N.O. (1 Form A) SPST - N.C. (1 Form B) SPDT (1 Form C)
<b>Ratings</b>	Form A, B and C Max. switched power: 240W or 2400VA Max. switched current: 15A (AC), 7A (DC) Max. switched voltage: 30VDC or 120VAC
<b>Rated Load UL/CUR</b>	1 Form A 15A at 120VAC 100,000 cycles TV - 5 120VAC  1 Form B NC (Class F Only) 8.3A at 120VAC, 1000VA, 90°C Ballast 3.6A at 277VAC, 1000VA, 90°C Ballast 8A at 120VAC, 10k cycles, 80°C Electronic Ballast 3A at 277VAC, 10k cycles, 80°C Electronic Ballast  1 Form B NC (Class B Only) 15A at 120VAC, 1800VA, 25°C Ballast 6.5A at 277VAC, 1800VA, 25°C Ballast  1 Form C 10A at 120VAC 100,000 cycles N.O. 10A at 120VAC 50,000 cycles N.C.
<b>Material</b>	Silver tin oxide (gold plating available)
<b>Resistance</b>	< 100 milliohms initially (6V, 1A voltage drop method)

### COIL

<b>Power At Pickup Voltage Max Continuous Dissipation</b>	203mW 0.6W at 20°C (68°F)
<b>Temperature Rise (at nominal coil voltage)</b>	27°C (49°F)
<b>Temperature</b>	Max. 130°C (266°F)

### GENERAL DATA

<b>Life Expectancy Mechanical Electrical</b>	1 x 10 <sup>6</sup> 1 x 10 <sup>5</sup> at 10A, 120VAC Res.
<b>Operate Time</b>	10ms max.
<b>Release Time</b>	5ms max. (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	1500Vrms contact to coil 1000Vrms across contacts
<b>Insulation Resistance</b>	100 megohms min. at 500VDC, 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 80°C(176°F) -40°C(-40°F) to 130°C(266°F)
<b>Vibration</b>	0.062" 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 (500°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>	Approx. 13 grams

### NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Unsealed relays should not be dip cleaned.
4. Specifications subject to change without notice.

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## RELAY ORDERING DATA

STANDARD RELAYS				ORDER NUMBER*	
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance	Must Operate VDC	1 Form A (SPST-N.O.)	1 Form C (SPDT)
3	3.9	25 ±10%	2.3	AZ932-1AH-3D	AZ932-1CH-3D
5	6.5	70 ±10%	3.8	AZ932-1AH-5D	AZ932-1CH-5D
6	7.8	100 ±10%	4.5	AZ932-1AH-6D	AZ932-1CH-6D
9	11.7	225 ±10%	6.8	AZ932-1AH-9D	AZ932-1CH-9D
12	15.6	400 ±10%	9.0	AZ932-1AH-12D	AZ932-1CH-12D
18	23.4	900 ±10%	13.5	AZ932-1AH-18D	AZ932-1CH-18D
24	31.2	1,600 ±15%	18.0	AZ932-1AH-24D	AZ932-1CH-24D
48	62.4	4,500 ±15%	36.0	AZ932-1AH-48D	AZ932-1CH-48D

\*Add suffix "E" for epoxy sealed version. Add suffix "F" for Class F insulation system. Add suffix "G" for gold plated contacts. Substitute "1BH" in place of "1AH" to indicate 1 Form B.

## MECHANICAL DATA

### Outline Dimensions

Top View Dimensions:  
 Left side: 0.795 (20.2) width, 0.079 (2.00) lead width, 0.480 (12.20) lead spacing.  
 Right side: 0.649 (16.5) width, 0.089 (2.25) lead width, 0.236 (6.00) lead spacing.  
 Height: 0.795 (20.2) mm.

Bottom View Dimensions:  
 Coil: 0.012 (0.30) width, 2x0.039 (1.00) lead width, 2x0.020 (0.50) lead spacing.  
 Contacts: 0.039 (1.00) width, 2x0.020 (0.50) lead width, 2x0.018 (0.45) lead spacing.

### PC Board Layout

FORM "A" / FORM "B":  
 Dimensions: 0.079 (2.00) lead width, 0.157 (4.00) lead spacing, 0.089 (2.25) hole offset, 0.236 (6.00) hole spacing, 0.472 (12.00) contact offset, 0.480 (12.20) contact spacing.  
 Holes: 2xø0.051 (ø1.3) Form A Only, 2xø0.039 (ø1.0) Form B Only.

FORM "C":  
 Dimensions: 0.079 (2.00) lead width, 0.157 (4.00) lead spacing, 0.089 (2.25) hole offset, 0.236 (6.00) hole spacing, 0.472 (12.00) contact offset, 0.480 (12.20) contact spacing.  
 Holes: 2xø0.039 (ø1.0) and 3xø0.051 (ø1.3).

### Wiring Diagram

FORM "A": Terminals 1, 2, 3, 5. Coil between 1 and 2, contact between 2 and 3, common at 5.

FORM "B": Terminals 1, 2, 3, 4, 5. Coil between 1 and 2, contact between 2 and 3, common at 5, normally closed contact at 4.

FORM "C": Terminals 1, 2, 3, 4, 5. Coil between 1 and 2, contact between 2 and 3, common at 5, normally closed contact at 4, normally open contact at 4.

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