

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

Arrangement	SPST - N.O. (1 Form A) SPST - N.C. (1 Form B) SPDT (1 Form C)
Ratings	Form A, B and C Max. switched power: 210W or 1800VA Max. switched current: 15A (AC), 7A (DC) Max. switched voltage: 30VDC or 277VAC
Rated Load UL/CUR	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.
Material	Silver tin oxide (gold plating available)
Resistance	< 100 milliohms initially (6V, 1A voltage drop method)

COIL

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

GENERAL DATA

Life Expectancy Mechanical Electrical	1 x 10 ⁶ 1 x 10 ⁵ at 10A, 120VAC Res.
Operate Time	10ms max.
Release Time	5ms max. (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	1500Vrms contact to coil 1000Vrms across contacts
Insulation Resistance	100 megohms min. at 500VDC, 50% RH
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature Operating Storage	At nominal coil voltage -40°C(-40°F) to 70°C(158°F) -40°C(-40°F) to 130°C(266°F)
Vibration	0.062" DA at 10–55 Hz
Shock	10 g
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C.
Max. Solder Temp.	270°C (500°F)
Max. Solder Time	5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight (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.

AMERICAN ZETTLER, INC.

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:
 Width: 0.795 (20.2)
 Height: 0.795 (20.2)
 Pin Spacing: 0.480 (12.20)
 Pin Diameter: 0.079 (2.00)

Side View Dimensions:
 Height: 0.649 (16.5)
 Pin Spacing: 0.236 (6.00)
 Pin Diameter: 0.089 (2.25)

Bottom View Dimensions:
 Pin Spacing: 0.012 (0.30)
 Pin Diameter: 2x0.039 (1.00)
 Pin Diameter: 2x0.020 (0.50)
 Pin Diameter: 2x0.020 (0.50)
 Pin Diameter: 2x0.018 (0.45)

PC Board Layout

FORM "A" / FORM "B"
 Dimensions: 0.079 (2.00), 0.157 (4.00), 0.089 (2.25), 0.236 (6.00), 0.472 (12.00), 0.480 (12.20), 2x0.039 (1.00), 2x0.051 (1.3)

FORM "C"
 Dimensions: 0.079 (2.00), 0.157 (4.00), 0.089 (2.25), 0.236 (6.00), 0.472 (12.00), 0.480 (12.20), 2x0.039 (1.00), 3x0.051 (1.3)

View Toward Terminals

Wiring Diagram

(1 Form A) (1 Form B) (1 Form C)

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