

AZ9322

15 AMP MINIATURE POWER RELAY

FEATURES

- Normally Closed (NC) ratings optimized for lighting
- Low seated height
- Flux tight and sealed versions available
- Class F insulation available



CONTACTS

Arrangement	SPST-N.O. (1 Form A) SPST-N.C. (1 Form B) SPDT (1 Form C)
Ratings (max.) switched power switched current switched voltage	(resistive load) 1800 VA 15 A 277 VAC
Rated Loads	1 Form A 15A at 120VAC 100,000 cycles TV-5 at 120VAC 1 Form B 15A at 120VAC, 1800VA, 25°C Ballast 6.5A at 120VAC, 1800VA, 25°C Ballast 8.3A at 120VAC, 1000VA, 90°C Ballast 3.6A at 277VAC, 1000VA, 90°C Ballast 8A at 120VAC, 10k cycles, 80°C Ballast 3A at 277VAC, 10k cycles, 80°C Ballast 1 Form C 10A at 120VAC 100,000 cycles N.O. 10A at 120VAC 50,000 cycles N.C.
Contact material	AgSnO ₂ (silver tin oxide)
Contact gap standard version	>0.1 mm
Contact resistance initial	(load contact) ≤ 100 mΩ

COIL

Nominal coil DC voltages	3, 5, 6, 9, 12, 18, 24, 48
Dropout voltage	> 10% of nominal coil voltage
Holding voltage	> 35% of nominal coil voltage
Coil power nominal at pickup voltage	(at 23°C) 0.6 W 203 mW
Temperature Rise	23°C(73°F) at nom. coil voltage, 85°C
Max. temperature	Class B insulation - 130°C (266°F) Class F insulation - 155°C (311°F)

GENERAL DATA

Life Expectancy mechanical electrical	(minimum operations) 1 x 10 ⁶ see Rated Loads
Operate Time	10 ms (max.) at nominal coil voltage
Release Time	5 ms (max.) at nominal coil voltage, without coil suppression
Dielectric Strength coil to load contacts open load contacts	(at sea level for 1 min.) 1500 V _{RMS} 1000 V _{RMS}
Insulation Resistance	100 MΩ (min.) at 23°C, 500 VDC, 50% RH
Temperature Range operating storage	(at nominal coil voltage) -40°C (-40°F) to 90°C (194°F) -40°C (-40°F) to 130°C (266°F)
Vibration resistance	0.062" (1.5 mm) DA at 10–55 Hz
Shock	10 g
Enclosure flammability	P.B.T. polyester UL94 V-0
Terminals	Tinned copper alloy, P. C.
Soldering max. temperature max. time	270 °C 5 s
Dimensions length width height	35.0 mm (1.38") 16.0 mm (0.63") 27.9 mm (1.10")
Weight	13 grams (approx.)

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COIL VOLTAGE SPECIFICATIONS

Nominal Coil VDC	Must Operate VDC	Max. Cont. VDC	Resistance Ohm ± 10%
3	2.3	3.9	25
5	3.8	6.5	70
6	4.5	7.8	100
9	6.8	11.7	225
12	9.0	15.6	400
18	13.5	23.4	900
24	18.0	31.2	1600
48	36.0	62.4	4500

Note: All values at 23°C (73°F), upright position, terminals downward.

ORDERING DATA

AZ9322-□□-□□D□□

Coil wire

nil: Class B coil wire
F: Class F coil wire

Sealing option

nil: non sealed
E: sealed version

Nominal coil voltage

see coil voltage specifications table

Contact arrangement

1AH: 1 Form A (SPST-N.O.)
1BH: 1 Form B (SPST-N.C.)
1CH: 1 Form C (SPDT)

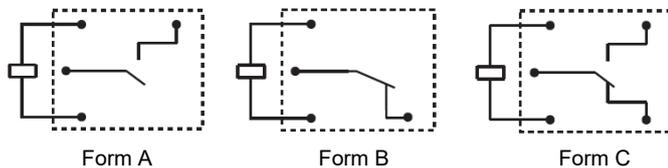
Example ordering data

AZS9322-1BH-48D 1 Form B, 48 VDC nominal coil voltage, flux tight, class B insulation

AZS9322-1BH-5DEF 1 Form B, 5 VDC nominal coil voltage, epoxy sealed, class F insulation

WIRING DIAGRAMS

Viewed towards terminals



Form A

Form B

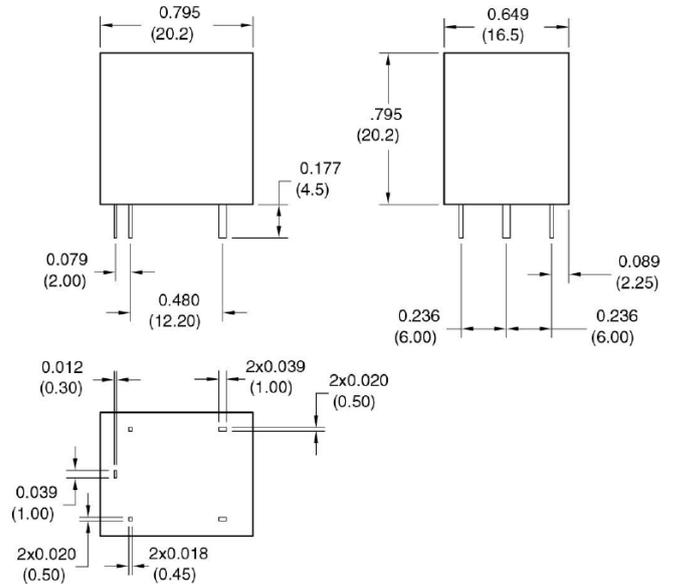
Form C

NOTES

- All values at 23°C (73°F).
- Relay may pull in with less than "Must Operate" value.
- Provide sufficient PCB cross section as heat spreader on terminals.
- Specifications subject to change without notice.

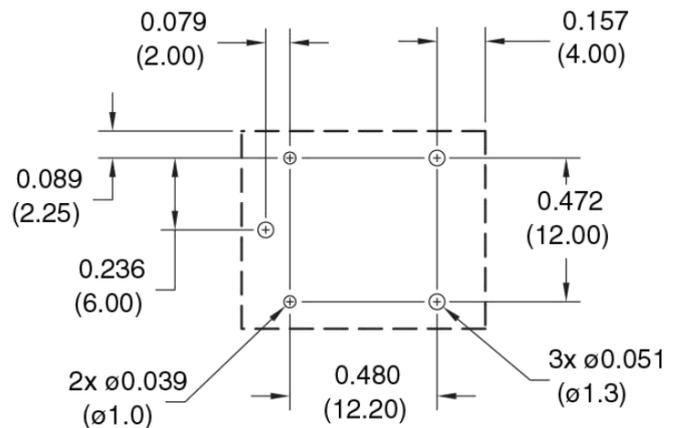
MECHANICAL DATA

Dimensions in inches with metric equivalents in parentheses. Tolerance: ±0.10"



PC BOARD LAYOUT

Viewed towards terminals. Dimensions in inches with metric equivalents in parentheses. Tolerance: ±0.10"



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DISCLAIMER

This product specification is to be used in conjunction with the application notes which can be downloaded from the regional ZETTLER relay websites. The specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.

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