AZ943W

10 AMP MINIATURE PCB RELAY

FEATURES

- 10 Amp switching capability
- Wide contact gap of ≥ 0.8 mm
- Available in SPST-N.O. and SPDT versions
- · Compact size, low seated height
- Flux tight and sealed versions available
- UL Class F insulation system (155°C) standard
- RoHS compliant
- UL / CUR intended







CONTACTS

SPST-N.O. (1 Form A), SPDT (1 Form C) Arrangement

Ratings (max.) (resistive load) switched power 300 W or 2770 VA switched current switched voltage

10 A 30 VDC* or 277 VAC

 Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.

Rated Loads

UL/CUR intended

Contact material AgSnO₂ (silver tin oxide)

Contact gap ≥ 0.8 mm

Initial resistance < 100 mΩ (1 A / 24 V - voltage drop method)

COIL

Nominal coil DC voltages 6, 12, 18, 24

Dropout voltage ≥ 10% of nominal coil voltage

Coil power

nominal 540 mW at pickup voltage 405 mW

1040 mW at 20°C (68°F) max. cont. dissipation

Temperature Rise 85 K (153°F) at nominal coil voltage

155°C (311°F) class F Max. temperature

GENERAL DATA

Life Expectancy (minimum operations) mechanical

electrical

1 Form A 1 Form C 2×10^4 at 10 A, 277 VAC, 70°C, resistive load N.O. 2×10^4 at 10 A, 277 VAC, 70°C, res. load N.C. 5×10^3 at 5 A, 277 VAC, 70°C, res. load

Operate Time 10 ms (max.) at nominal coil voltage

Release Time 5 ms (max.) at nominal coil voltage, without coil

suppression

Dielectric Strength (at sea level for 1 min.)

1500 V_{RMS} coil to contact 1600 V_{RMS} between open contacts

100 M Ω (min.) at 20°C, 500 VDC, 50% RH Insulation Resistance

Temperature Range

(at nominal coil voltage) operating -40°C (-40°F) to 70°Č (158°F)

Vibration resistance Shock resistance

0.062" (1.5 mm) DA at 10-55 Hz

10 g

Enclosure P.B.T. polyester

Terminals Tinned copper alloy, P. C.

Soldering

270 °C (518°F) max. temperature max. time 5 seconds

Cleaning

80°C (176°F) max, solvent temp. max. immersion time 30 seconds

Dimensions

length 19.0 mm (0.748")width 15.3 mm (0.600")16.0 mm (0.630)height Weight 10 grams (approx.)

Packing unit in pcs 20 per plastic tube / 1000 per carton box

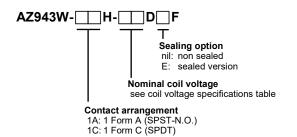
Compliance UL 508, IEC 61810-1, RoHS, REACH

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COIL VOLTAGE SPECIFICATIONS

Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Resistance Ohm ± 10%
6	4.5	9.0	65
12	9.0	18.0	270
18	13.5	27.0	600
24	18.0	36.0	1070

ORDERING DATA



Example ordering data

AZ943W-1AH-9DF 1 Form A, 9 VDC nominal coil voltage

AZ943W-1CH-12DEF 1 Form C, 12 VDC nominal coil voltage, sealed version

WIRING DIAGRAMS

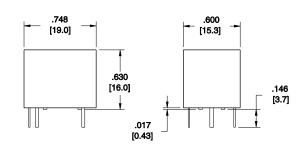
Viewed towards terminals

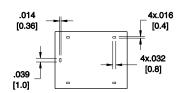




MECHANICAL DATA

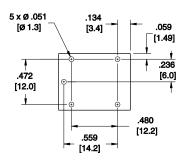
Dimensions in inches with metric equivalents in parentheses.





PC BOARD LAYOUT

Dimensions in inches with metric equivalents in parentheses. Viewed towards terminals.



NOTES

- 1. Specifications subject to change without notice.
- 2. All values at 20 $^{\circ}\text{C}$ (68 $^{\circ}\text{F}) unless otherwise stated.$
- 3. Relay may pull in with less than "Must Operate" value.
- Coil suppression circuits such as diodes, etc. in parallel to the coil will lengthen the release time.
- 5. Unsealed relays should not be dip cleaned.

DISCLAIMER

This product specification is to be used in conjunction with the application notes which can be downloaded from

www. ZETTLE Relectronics.com/pdfs/relais/Application Notes.pdf

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.

ZETTLER electronics GmbH

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