

AZ943W

10 AMP MINIATURE PC BOARD 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 – pending



CONTACTS

Arrangement	SPST-N.O. (1 Form A) SPDT (1 Form C)
Ratings (max.)	(resistive load) switching power: 300 W or 2770 VA switching current: 10 A switching voltage: 30 VDC* or 277 VAC * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
UL/CUR	Pending
Contact gap	≥ 0.8 mm
Material	Silver Tin Oxide
Resistance	< 100 milliohms initially (6V, 1A method)

GENERAL DATA

Life Expectancy mechanical electrical 1 Form A 1 Form C	(minimum operations) 1×10^6 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
Insulation Resistance	100 M Ω (min.) at 20°C, 500 VDC, 50% RH
Temperature Range operating	(at nominal coil voltage) -40°C (-40°F) to 70°C (158°F)
Vibration resistance	0.062" (1.5 mm) DA at 10–55 Hz
Shock resistance	10 g
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P. C.
Soldering max. temperature max. time	270 °C (518°F) 5 seconds
Cleaning max. solvent temp. max. immersion time	80°C (176°F) 30 seconds
Dimensions length width height	19.0 mm (0.748") 15.3 mm (0.600") 16.0 mm (0.630")
Weight	10 grams
Packing unit in pcs	20 per plastic tube / 1000 per carton box
Compliance	UL 508, IEC 61810-1, RoHS, REACH

Coil

Nominal coil DC voltages	6, 12, 18, 24
Dropout voltage	$\geq 10\%$ of nominal coil voltage
Coil power nominal at pickup voltage max. cont. dissipation	540 mW 405 mW 1040 mW at 20°C (68°F)
Temperature Rise	85 K (153°F) at nominal coil voltage
Max. temperature	155°C (311°F) class F

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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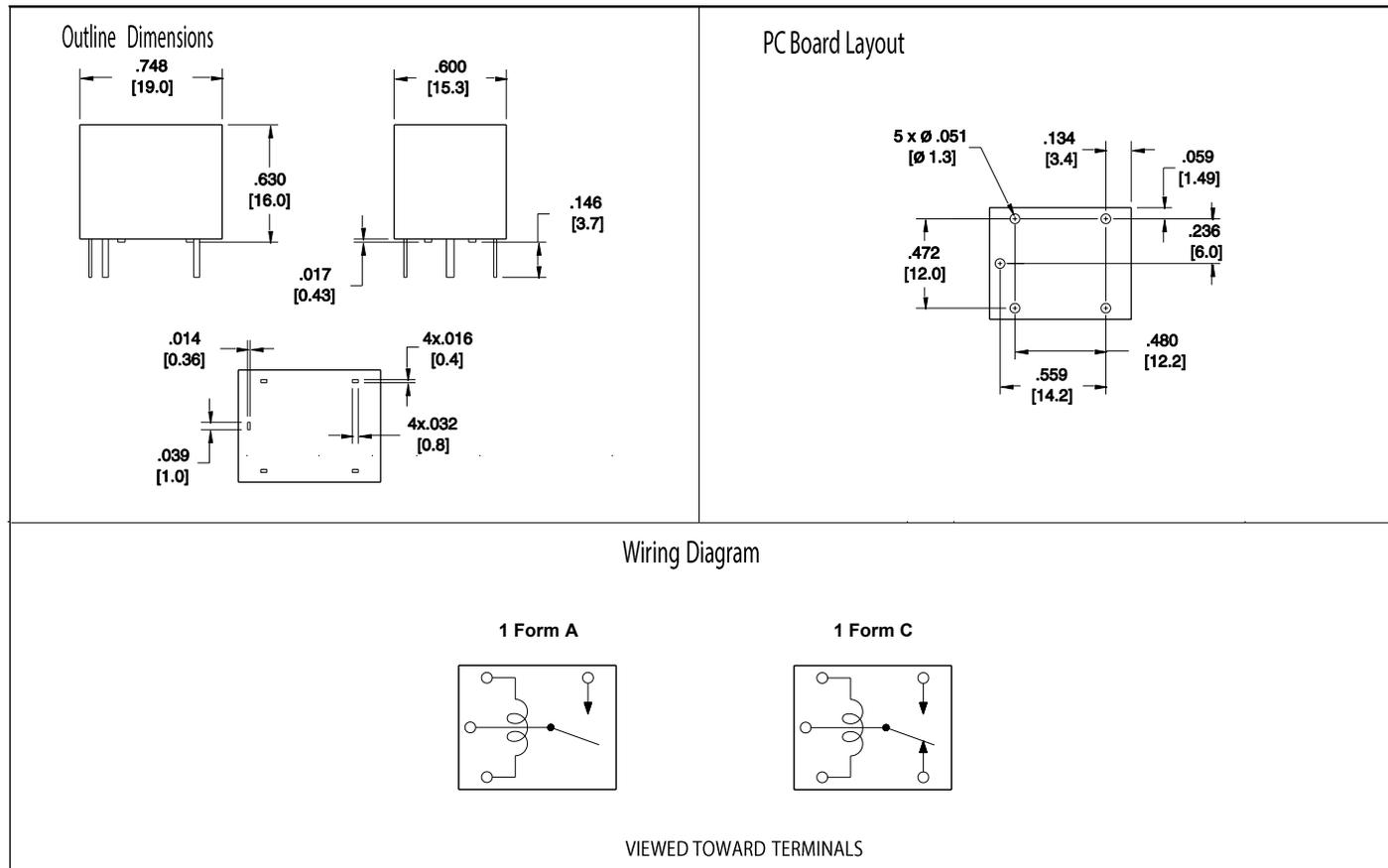
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RELAY ORDERING DATA

STANDARD RELAYS				
COIL SPECIFICATIONS				
Nominal Coil VDC	Must Operate VDC	Max Continuous VDC	Coil Resistance $\pm 10\%$	ORDER NUMBER*
6	4.5	9.0	65	AZ943W-1CH-6D
12	9.0	18.0	270	AZ943W-1CH-12D
18	13.5	27.0	600	AZ943W-1CH-18D
24	18.0	36.0	1070	AZ943W-1CH-24D

* Substitute "1AH" in place of "1CH" to indicate 1 Form A contact. Add suffix "E" for epoxy sealed versions.

MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010$ "

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This 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.