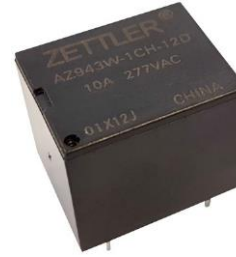


# AZ943W

## 10 AMP MINIATURE PC BOARD RELAY

### FEATURES

- 10 Amp switching capability
- Wide contact gap of  $\geq 0.8$  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

<b>Arrangement</b>	SPST-N.O. (1 Form A) SPDT (1 Form C)
<b>Ratings (max.)</b>	(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.
<b>UL/CUR</b>	Pending
<b>Contact gap</b>	$\geq 0.8$ mm
<b>Material</b>	Silver Tin Oxide
<b>Resistance</b>	< 100 milliohms initially (6V, 1A method)

### GENERAL DATA

<b>Life Expectancy</b> mechanical electrical 1 Form A 1 Form C	(minimum operations) $1 \times 10^6$ $2 \times 10^4$ at 10 A, 277 VAC, 70°C, resistive load N.O. $2 \times 10^4$ at 10 A, 277 VAC, 70°C, res. load N.C. $5 \times 10^3$ at 5 A, 277 VAC, 70°C, res. load
<b>Operate Time</b>	10 ms (max.) at nominal coil voltage
<b>Release Time</b>	5 ms (max.) at nominal coil voltage, without coil suppression
<b>Dielectric Strength</b>	(at sea level for 1 min.) 1500 V <sub>RMS</sub> coil to contact 1600 V <sub>RMS</sub> between open contacts
<b>Insulation Resistance</b>	100 M $\Omega$ (min.) at 20°C, 500 VDC, 50% RH
<b>Temperature Range</b> operating	(at nominal coil voltage) -40°C (-40°F) to 70°C (158°F)
<b>Vibration resistance</b>	0.062" (1.5 mm) DA at 10–55 Hz
<b>Shock resistance</b>	10 g
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy, P. C.
<b>Soldering</b> max. temperature max. time	270 °C (518°F) 5 seconds
<b>Cleaning</b> max. solvent temp. max. immersion time	80°C (176°F) 30 seconds
<b>Dimensions</b> length width height	19.0 mm (0.748") 15.3 mm (0.600") 16.0 mm (0.630")
<b>Weight</b>	10 grams
<b>Packing unit in pcs</b>	20 per plastic tube / 1000 per carton box
<b>Compliance</b>	UL 508, IEC 61810-1, RoHS, REACH

### Coil

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

**AMERICAN ZETTLER, INC.** [www.azettler.com](http://www.azettler.com)

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4/03/18

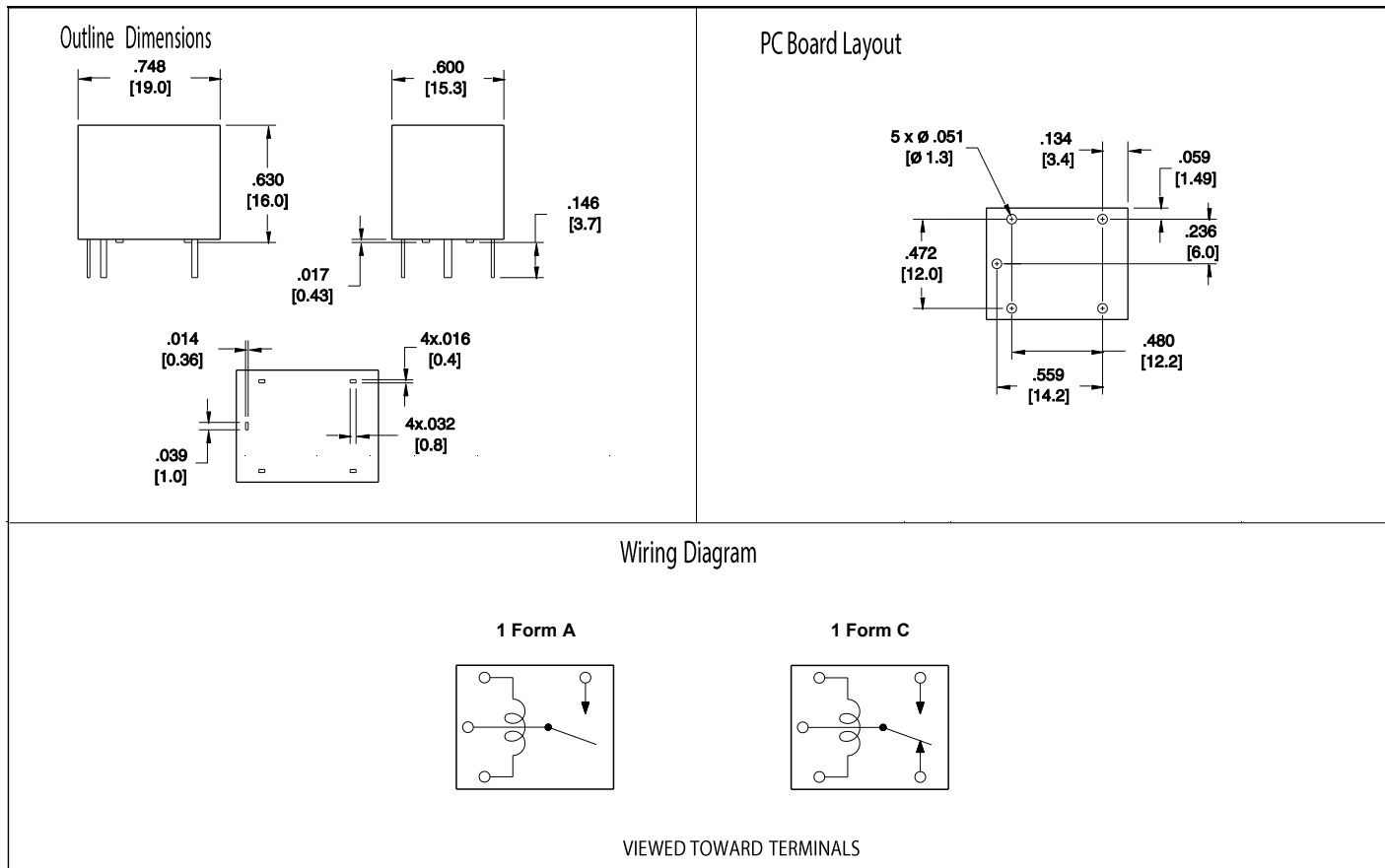
# AZ943W

## 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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