

# AZ943

## 15 AMP MINIATURE PC BOARD RELAY

### FEATURES

- High performance
- Low seated height
- Flux tight and sealed versions available
- UL, CUR file E43203
- Class B insulation (130°C) standard



### CONTACTS

<b>Arrangement</b>	SPST (1 Form A) SPDT (1 Form C)
<b>Ratings</b>	Form A and C Max. switched power: 210 W or 2770 VA Max. switched current: 15 A AC, 7 A DC Max. switched voltage: 30 VDC or 300 VAC
<b>UL/CUR Ratings</b>	1 Form A 15 A at 125 VAC, general use 10A at 277 VAC, general use, 100,000 cycles TV - 5 120 VAC  1 Form C 10 A at 277 VAC, general use, 100,000 cycles
<b>Material</b>	AgSnO <sub>2</sub>
<b>Resistance</b>	< 100 milliohms initially (24 V, 1 A method)

### COIL

<b>Power</b>	
<b>At Pickup Voltage</b>	203 mW
<b>Max Continuous Dissipation</b>	1.0 W at 20°C (68°F)
<b>Temperature Rise</b> (at nominal coil voltage)	27°C (49°F)
<b>Temperature</b>	Max. 130°C (266°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.

### GENERAL DATA

<b>Life Expectancy</b>	
Mechanical	1 x 10 <sup>6</sup>
Electrical	1 x 10 <sup>5</sup> at rated load
<b>Operate Time</b>	10 ms max.
<b>Release Time</b>	5 ms max. (with no coil suppression)
<b>Dielectric Strength</b> (at sea level for 1 min.)	1500 Vrms contact to coil 1000 Vrms across contacts
<b>Insulation Resistance</b>	100 megohms min. at 500 VDC, 50% RH
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<b>Ambient Temperature</b>	At nominal coil voltage
<b>Operating</b>	-40°C(-40°F) to 95°C(203°F)
<b>Storage</b>	-40°C(-40°F) to 130°C(266°F)
<b>Vibration</b>	0.062" DA at 10-55 Hz
<b>Shock</b>	10 g
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Max. Solder Temp.</b>	270°C (518°F)
<b>Max. Solder Time</b>	5 seconds
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	10 g

**ZETTLER** electronics

Logistic Design (UK) Limited. Unit 3, Eagle Centre Way, Luton LU4 9US www.zettlerrelay.com sales@zettlerrelay.com  
Telephone +44 (0) 1582 599 600 Fax +44 (0) 1582 599 700

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## RELAY ORDERING DATA

STANDARD RELAYS				ORDER NUMBER	
COIL SPECIFICATIONS				Unsealed	Sealed
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC		
5	8.3	70	3.8	AZ943-1CH-5D	AZ943-1CH-5DE
6	10.0	100	4.5	AZ943-1CH-6D	AZ943-1CH-6DE
9	15.0	225	6.8	AZ943-1CH-9D	AZ943-1CH-9DE
12	20.0	400	9.0	AZ943-1CH-12D	AZ943-1CH-12DE
18	30.0	900	13.5	AZ943-1CH-18D	AZ943-1CH-18DE
24	40.0	1,600	18.0	AZ943-1CH-24D	AZ943-1CH-24DE
48	67.0	6,200	36.0	AZ943-1CH-48D	AZ943-1CH-48DE

Substitute "1AH" in place of "1CH" to indicate 1 Form A contact.

## MECHANICAL DATA

### Outline Dimensions

Top view dimensions: .748 [19.0] (width), .600 [15.3] (width), .185 [4.7] (height), .017 [0.43] (height).

Side view dimensions: .618 [15.7] (height), .185 [4.7] (height).

Front view dimensions: .014 [0.36] (width), .039 [1.0] (height), 4x.016 [0.4] (width), 4x.032 [0.8] (height).

### PC Board Layout

Dimensions: 5x.051 [1.3] (hole diameter), .134 [3.4] (pitch), .059 [1.49] (pitch), .236 [6.0] (pitch), .472 [12.0] (pitch), .480 [12.2] (pitch), .559 [14.2] (pitch).

VIEWED TOWARD TERMINALS

### Wiring Diagram

FORM "A"      FORM "C"

VIEWED TOWARD TERMINALS

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