

# AZ943

## 15 AMP MINIATURE PC BOARD RELAY

### FEATURES

- High performance
- Low seated height
- Flux tight and sealed versions available
- Class F insulation (155°C) available
- UL, CUR file E43203
- TÜV file R2134654



### 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</b>	1 Form A 15 A at 125 VAC, general use 10A at 277 VAC, general use, 100k cycles TV - 5 120 VAC 1/2 HP at 125 VAC 125 VA at 120 VAC Pilot Duty, 100k cycles (N.O.)
<b>TÜV</b>	1 Form C 10 A at 277 VAC, general use, 100,000 cycles 1/2 HP at 125 VAC N.O. 125 VA at 120 VAC Pilot Duty, 100k cycles (N.O.) 5 A at 250 VAC resistive, 100k cycles 12 A at 125 VAC resistive, 100k cycles
<b>Material</b>	Silver tin oxide
<b>Resistance</b>	< 100 milliohms initially (24 V, 1 A method)

### GENERAL DATA

<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	1 x 10 <sup>6</sup> 1 x 10 <sup>5</sup> at 10A 277 VAC Res.
<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> <b>Operating</b> <b>Storage</b>	At nominal coil voltage -40°C(-40°F) to 70°C(158°F) class B -40°C(-40°F) to 85°C(185°F) class F -40°C(-40°F) to 105°C(221°F)
<b>Vibration</b>	0.062" (1.5 mm) 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
<b>Packing unit in pcs</b>	20 per plastic tube / 1000 per carton box

### COIL

<b>Power</b> <b>At Pickup Voltage</b> <b>Max Continuous</b> <b>Dissipation</b>	203 mW 1.8 W at 20°C (68°F) Class B 2.4 W at 20°C (68°F) Class F
<b>Temperature Rise</b>	32°C (58°F) at nominal coil voltage
<b>Temperature</b>	Max. 130°C (266°F) Class B Max. 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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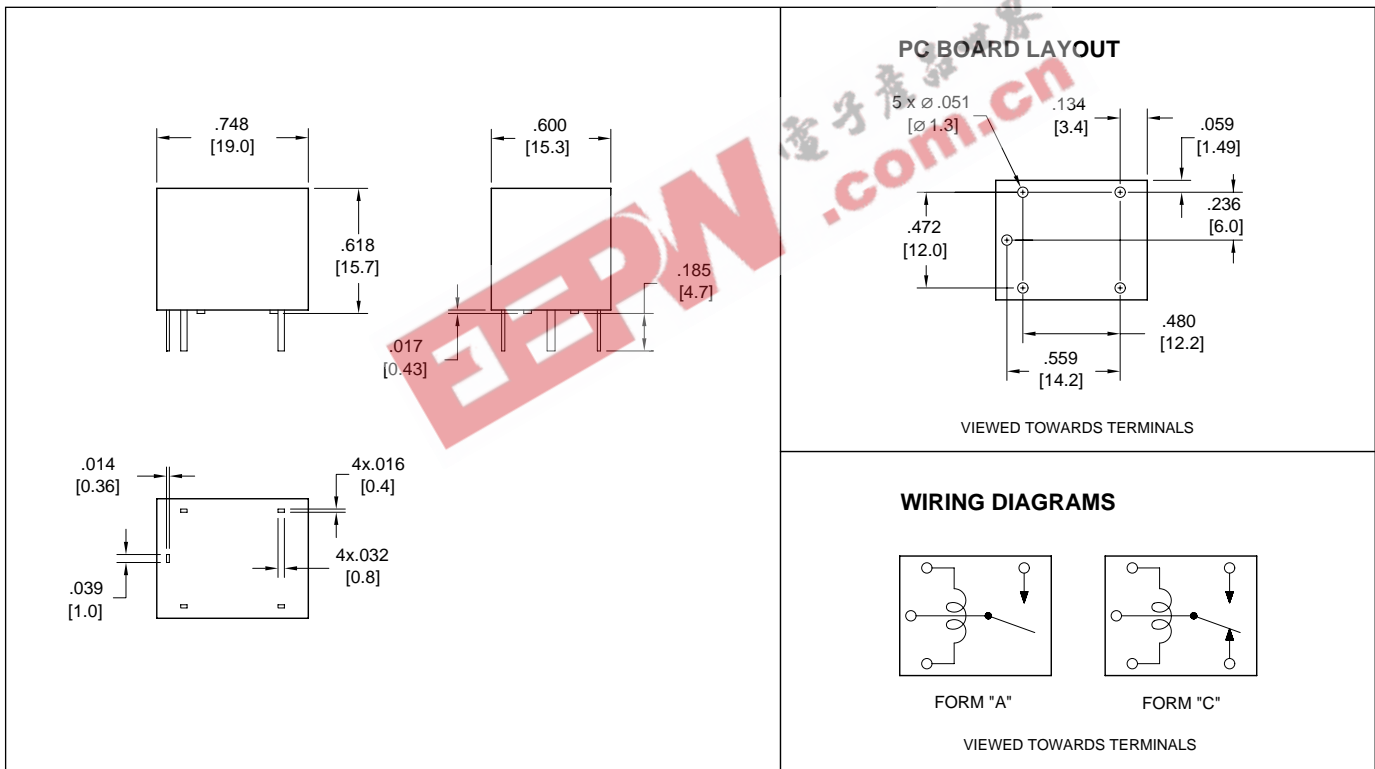
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## RELAY ORDERING DATA

STANDARD RELAYS					
COIL SPECIFICATIONS				ORDER NUMBER	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	Unsealed	Sealed
5	3.8	11.2	70	AZ943-1CH-5D	AZ943-1CH-5DE
6	4.5	13.4	100	AZ943-1CH-6D	AZ943-1CH-6DE
9	6.8	20.1	225	AZ943-1CH-9D	AZ943-1CH-9DE
12	9.0	26.8	400	AZ943-1CH-12D	AZ943-1CH-12DE
18	13.5	40.2	900	AZ943-1CH-18D	AZ943-1CH-18DE
24	18.0	53.4	1,600	AZ943-1CH-24D	AZ943-1CH-24DE
36	27.0	80.1	3,600	AZ943-1CH-36D	AZ943-1CH-36DE
48	36.0	107.3	6,400	AZ943-1CH-48D	AZ943-1CH-48DE

Substitute "1AH" in place of "1CH" to indicate 1 Form A contact. To indicate Class F version, add suffix "F".

## MECHANICAL DATA



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

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