

# AZ943

## 15 AMP MINIATURE PC BOARD RELAY



### FEATURES

- High performance
- Low seated height
- Flux tight and sealed versions available
- Class B insulation (130°C) standard
- Class F insulation (155°C) available
- UL, CUR file E43203
- TÜV file R50161256

### 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 (1 Form A), 10 A (1 Form C) Max. switched voltage: 30 VDC or 277 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>	8A at 125 VAC, 1000W (N.O.)Tungsten 1 Form C 10 A at 277 VAC, general use, 100k cycles 1/2 HP at 125 VAC N.O. 10 A/7A N.O./N.C. at 30 VDC resistive 1 Form A 10 A at 277 VAC, resistive, 70k cycles 1 Form C 5 A at 250 VAC, resistive, 100k cycles 8 A at 250 VAC, resistive, 50k cycles 12 A at 125 VAC, resistive, 100k cycles
<b>Material</b>	Silver tin oxide (gold plating available not TÜV approved)
<b>Resistance</b>	< 100 milliohms initially (6 V, 1 A method)

### COIL

<b>Power</b>	
<b>At Pickup Voltage</b>	203 mW
<b>Max Continuous Dissipation</b>	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

### GENERAL DATA

<b>Life Expectancy</b>	
<b>Mechanical</b>	1 x 10 <sup>7</sup>
<b>Electrical</b>	1 x 10 <sup>5</sup> at 10 A 277 VAC Res.
<b>Operate Time</b>	10 ms max.
<b>Release Time</b>	5 ms max. (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	1500 Vrms contact to coil 750 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 90°C(194°F) Class B -40°C(-40°F) to 110°C(230°F) Class 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

### 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)

75 COLUMBIA ALISO VIEJO, CA 92656 • PHONE: (949) 831-5000 FAX: (949) 831-8642 E-MAIL: SALES@AZETTLER.COM

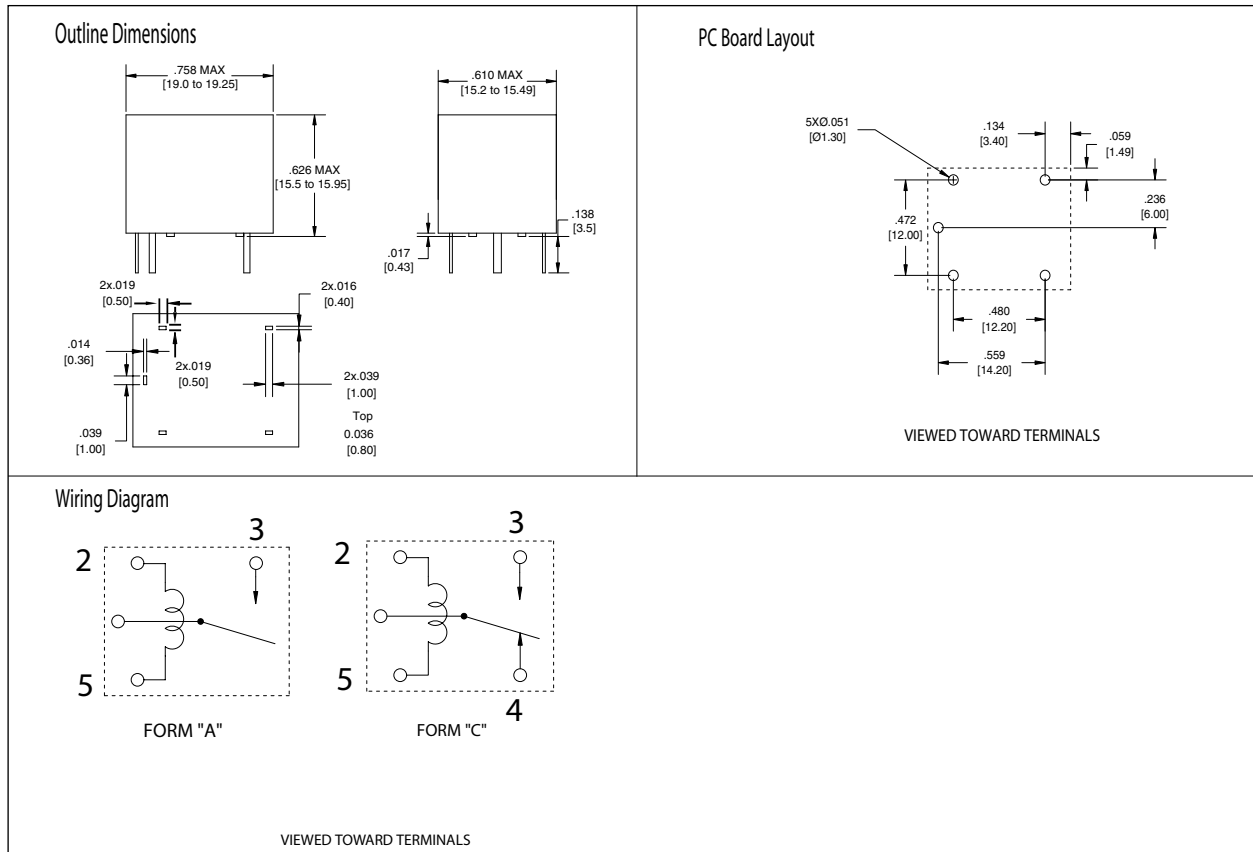
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## RELAY ORDERING DATA

STANDARD RELAYS				ORDER NUMBER*
COIL SPECIFICATIONS				
Nominal Coil VDC	Must Operate VDC	Max Continuous VDC	Coil Resistance $\pm 10\%$	
4	3.0	5.2	44	AZ943-1CH-4D
5	3.8	6.5	70	AZ943-1CH-5D
6	4.5	7.8	100	AZ943-1CH-6D
9	6.8	11.7	225	AZ943-1CH-9D
12	9.0	15.6	400	AZ943-1CH-12D
18	13.5	23.4	900	AZ943-1CH-18D
24	18.0	31.2	1,600 $\pm 15\%$	AZ943-1CH-24D
48	36.0	62.4	6,400 $\pm 15\%$	AZ943-1CH-48D

\* Substitute "1AH" in place of "1CH" to indicate 1 Form A contact. Add suffix "E" for epoxy sealed versions. Add suffix "G" for gold plated contacts. To indicate Class F version, add suffix "F".

## MECHANICAL DATA



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