

# 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 E44211
- TÜV file R50161256
- VDE certificate 40047375



### CONTACTS

<b>Arrangement</b>	SPST (1 Form A) SPDT (1 Form C)
<b>Ratings</b>	Form A and C Max. switched power: 210W or 2770VA Max. switched current: 15A (1 Form A), 10A (1 Form C) Max. switched voltage: 30VDC or 277VAC
<b>UL/CUR</b>	1 Form A 15A at 125VAC, General use, 6k cycles, 70°C 12A at 125VAC, General use, 100K cycles, 85°C 10A at 277VAC, General use, 100k cycles 70°C 10A at 277VAC, General use, 20k cycles 85°C 12A at 120VAC, Res. 6k cycles 70°C TV-5 120VAC 70°C 500W, 120VAC Tungsten 70°C 9.8 FLA 1/2HP at 125VAC, 6k Cycles 70°C 125VA at 120VAC Pilot Duty, 100k cycles, 70°C 10A at 28VDC, Res. 100K cycles 70°C
<b>TÜV</b>	1 Form C 10A at 120VAC, Res, 100k cycles, (N.O.) 70°C 10A at 120VAC, Res, 6k cycles, (N.C.) 70°C 10A at 277VAC, General Use, 100k cycles, (N.O./N.C.) 70°C 10A at 277VAC, General use, 20k cycles (N.O./N.C.) 85°C 9.8 FLA, 58.8 LRA 1/2HP at 125VAC, 6K cycles (N.O.) 70°C 10A at 28VDC, Res. 100k cycles (N.O.) 70°C
<b>VDE</b>	1 Form A 10A at 277VAC, Resistive, 25k cycles, 85°C 1 Form C 5A at 250VAC, Resistive, 25k cycles, 85°C 10A at 277VAC, Resistive, 10k cycles, 85°C 12A at 125VAC, Resistive, 10k cycles, 85°C
<b>Material</b>	Silver tin oxide, (gold plating available)
<b>Resistance</b>	< 100 milliohms initially (6V, 1A method)

### 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> <b>Mechanical</b> <b>Electrical</b>	1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 10A 277VAC Res.
<b>Operate Time</b>	10ms max.
<b>Release Time</b>	5ms max. (with no coil suppression)
<b>Dielectric Strength</b> <b>(at sea level for 1 min.)</b>	1500Vrms contact to coil 750Vrms across contacts
<b>Insulation Resistance</b>	100 megohms min. at 500VDC, 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 90°C(194°F) Class B -40°C(-40°F) to 110°C(230°F) Class F -40°C(-40°F) to 130°C(266°F)
<b>Vibration</b>	0.062" DA at 10–55Hz
<b>Shock</b>	10g
<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 grams

### COIL

<b>Power</b>	
<b>At Pickup Voltage</b>	203mW
<b>Max Continuous Dissipation</b>	1.8W at 20°C (68°F) Class B 2.4W 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

# AMERICAN ZETTLER, INC.

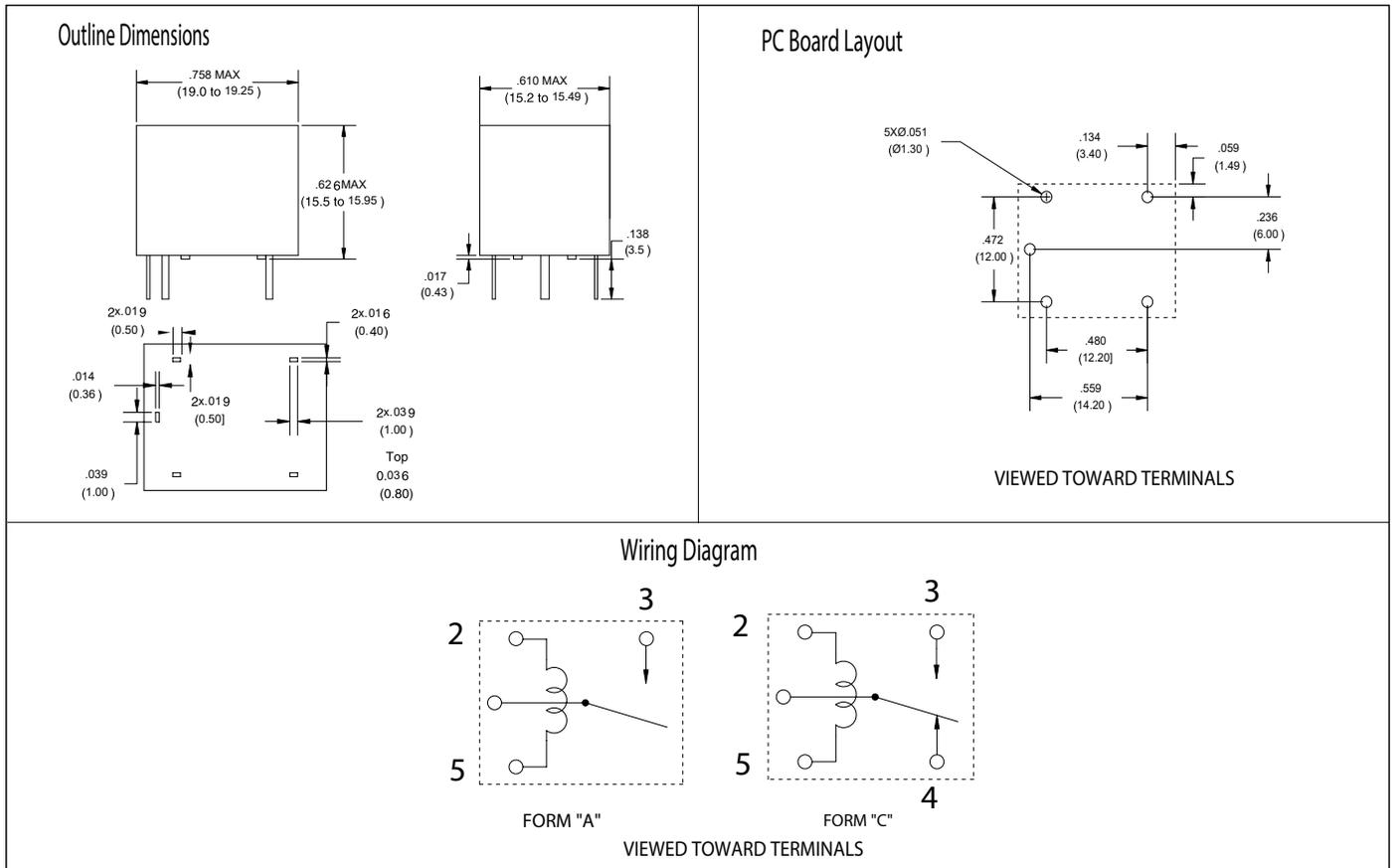
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## RELAY ORDERING DATA

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:  $\pm .010$ "