

# 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

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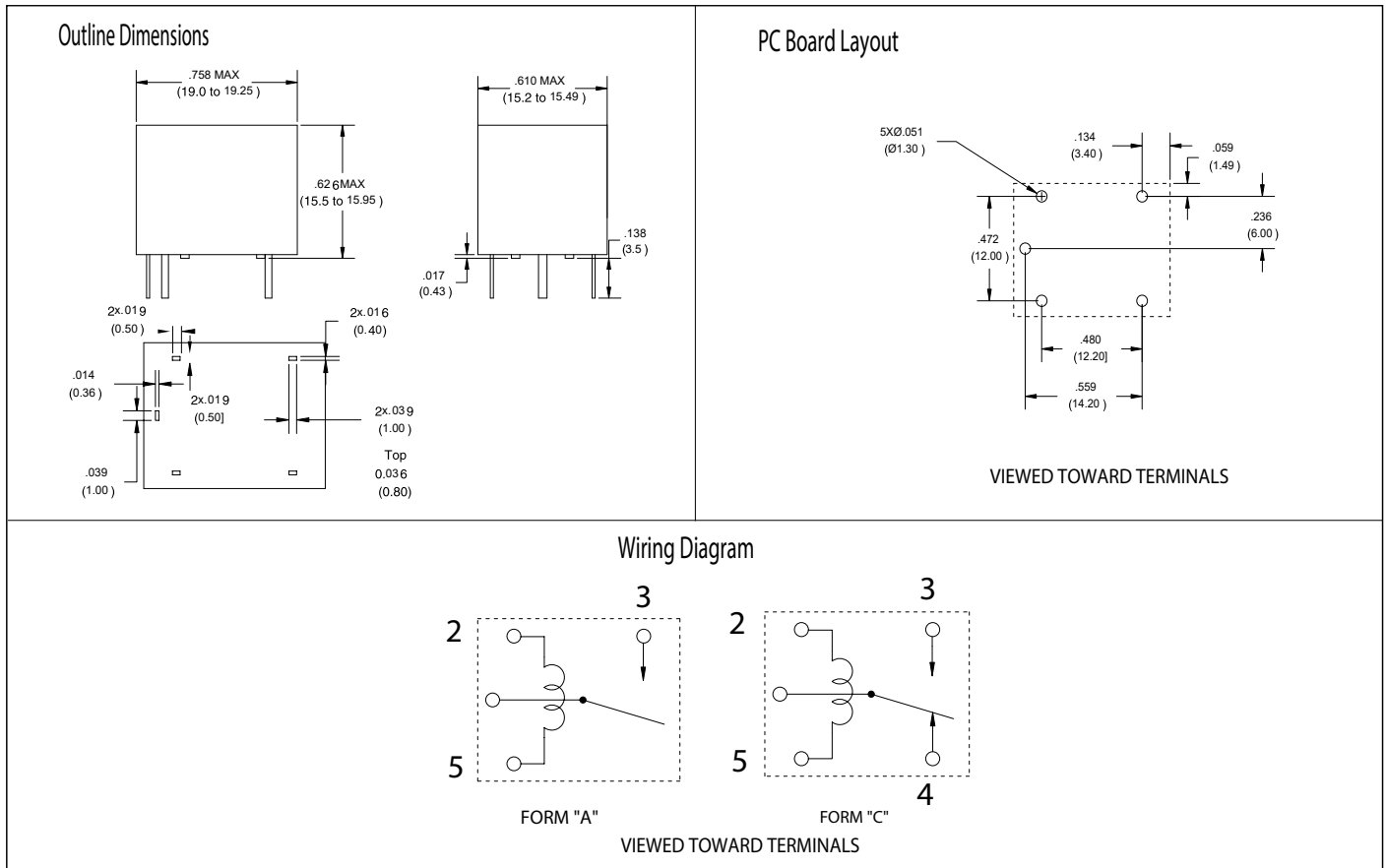
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## RELAY ORDERING DATA

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:  $\pm .010$ "

# AMERICAN ZETTLER, INC.

04/23/19

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This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.