

# 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)<br>SPDT (1 Form C)                                                                                                                                                                                         |
| <b>Ratings</b>     | Form A and C<br>Max. switched power: 210 W or 2770 VA<br>Max. switched current: 15 A AC, 7 A DC<br>Max. switched voltage: 30 VDC or 300 VAC                                                                                |
| <b>UL/CUR</b>      | 1 Form A<br>15 A at 125 VAC, general use<br>10A at 277 VAC, general use, 100,000 cycles<br>TV - 5 120 VAC<br>1/2 HP at 125 VAC<br>125 VA at 120 VAC Pilot Duty, 100k cycles (N.O.)<br>8A at 125 VAC, 1000W (N.O.) Tungsten |
| <b>TÜV</b>         | 1 Form C<br>10 A at 277 VAC, general use, 100,000 cycles<br>1/2 HP at 125 VAC N.O.<br>125 VA at 120 VAC Pilot Duty, 100k cycles (N.O.)<br>10 A/7A N.O./N.C. at 30 VDC resistive                                            |
|                    | 1 Form A<br>10 A at 277 VAC, resistive, 70k cycles                                                                                                                                                                         |
|                    | 1 Form C<br>5 A at 250 VAC, resistive, 100k cycles<br>8 A at 250 VAC, resistive, 50k cycles<br>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<br>(24 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<br>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<br>Max. 155°C (311°F) Class F     |



### GENERAL DATA

|                                                      |                                                                             |
|------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>Life Expectancy</b>                               | 1 x 10 <sup>7</sup>                                                         |
| <b>Mechanical</b>                                    | 1 x 10 <sup>5</sup> at 10 A 277 VAC Res.                                    |
| <b>Electrical</b>                                    |                                                                             |
| <b>Operate Time</b>                                  | 10 ms max.                                                                  |
| <b>Release Time</b>                                  | 5 ms max.<br>(with no coil suppression)                                     |
| <b>Dielectric Strength (at sea level for 1 min.)</b> | 1500 Vrms contact to coil<br>1000 Vrms across contacts                      |
| <b>Insulation Resistance</b>                         | 100 megohms min. at 500 VDC,<br>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<br>-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)

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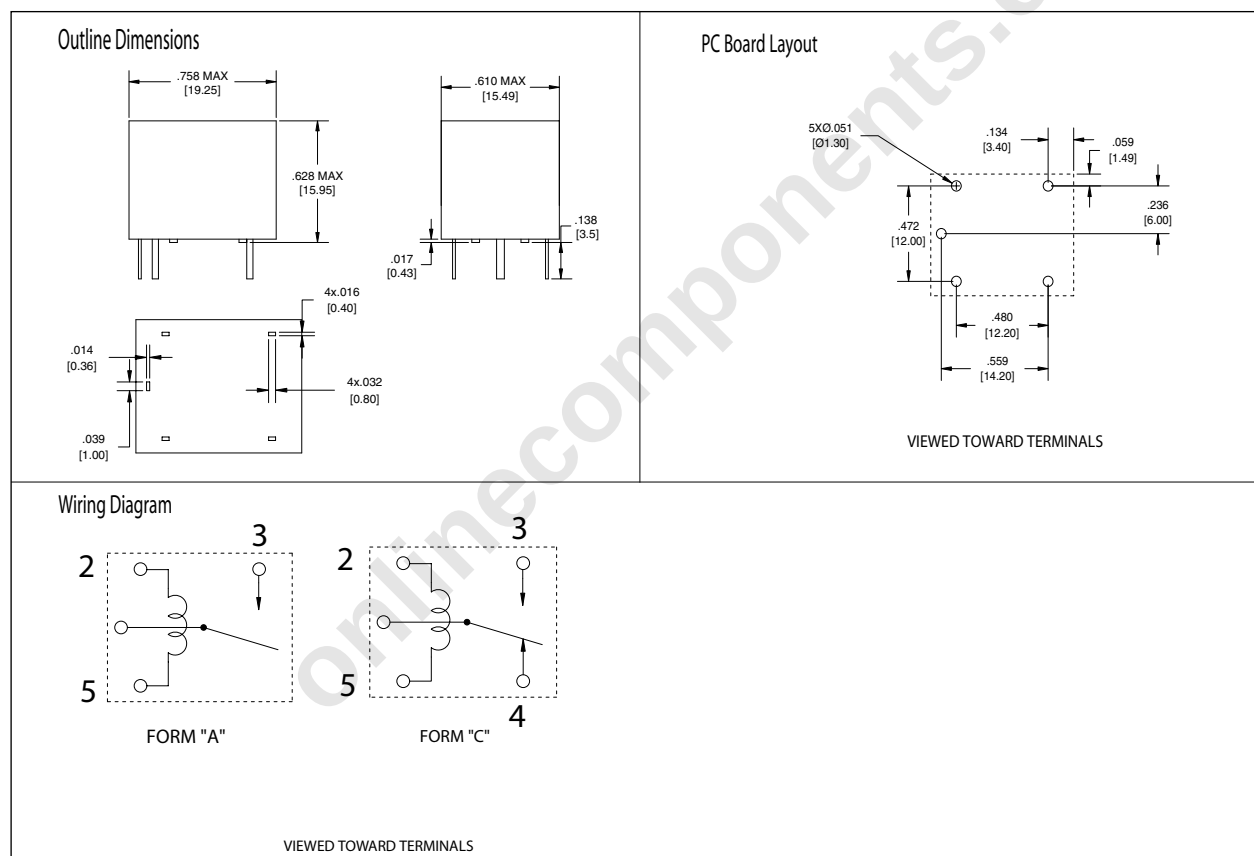
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## RELAY ORDERING DATA

| STANDARD RELAYS     |                  |                    |                            |               |
|---------------------|------------------|--------------------|----------------------------|---------------|
| COIL SPECIFICATIONS |                  |                    |                            | ORDER NUMBER* |
| Nominal Coil VDC    | Must Operate VDC | Max Continuous VDC | Coil Resistance $\pm 10\%$ |               |
| 5                   | 3.8              | 11.2               | 70                         | AZ943-1CH-5D  |
| 6                   | 4.5              | 13.4               | 100                        | AZ943-1CH-6D  |
| 9                   | 6.8              | 20.1               | 225                        | AZ943-1CH-9D  |
| 12                  | 9.0              | 26.8               | 400                        | AZ943-1CH-12D |
| 18                  | 13.5             | 40.2               | 900                        | AZ943-1CH-18D |
| 24                  | 18.0             | 53.4               | 1,600                      | AZ943-1CH-24D |
| 48                  | 36.0             | 107.3              | 6,400                      | 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:  $\pm .010$ "



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