

# AZ943S

## 15 AMP MINIATURE PC BOARD RELAY SMT

### FEATURES

- High performance
- Low seated height
- Flux tight version
- Class B insulation (130°C) standard
- UL, CUR file E43203



### CONTACTS

<b>Arrangement</b>	SPDT (1 Form C)
<b>Ratings</b>	Form 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 Ratings</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.)
<b>Material</b>	Silver tin oxide
<b>Resistance</b>	< 100 milliohms initially (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)
<b>Temperature Rise</b>	32°C (58°F) at nominal coil voltage
<b>Temperature</b>	Max. 130°C (266°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.

### GENERAL DATA

<b>Life Expectancy</b>	
<b>Mechanical</b>	1 x 10 <sup>6</sup>
<b>Electrical</b>	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 (at sea level for 1 min.)</b>	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>	At nominal coil voltage
<b>Operating</b>	-40°C(-40°F) to 70°C(158°F)
<b>Storage</b>	-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

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## RELAY ORDERING DATA

STANDARD RELAYS				ORDER NUMBER
COIL SPECIFICATIONS				
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	
5	3.8	11.2	70	AZ943S-1CH-5D
6	4.5	13.4	100	AZ943S-1CH-6D
9	6.8	20.1	225	AZ943S-1CH-9D
12	9.0	26.8	400	AZ943S-1CH-12D
18	13.5	40.2	900	AZ943S-1CH-18D
24	18.0	53.4	1,600	AZ943S-1CH-24D
48	36.0	107.3	6,400	AZ943S-1CH-48D

## MECHANICAL DATA

**Outline Dimensions**

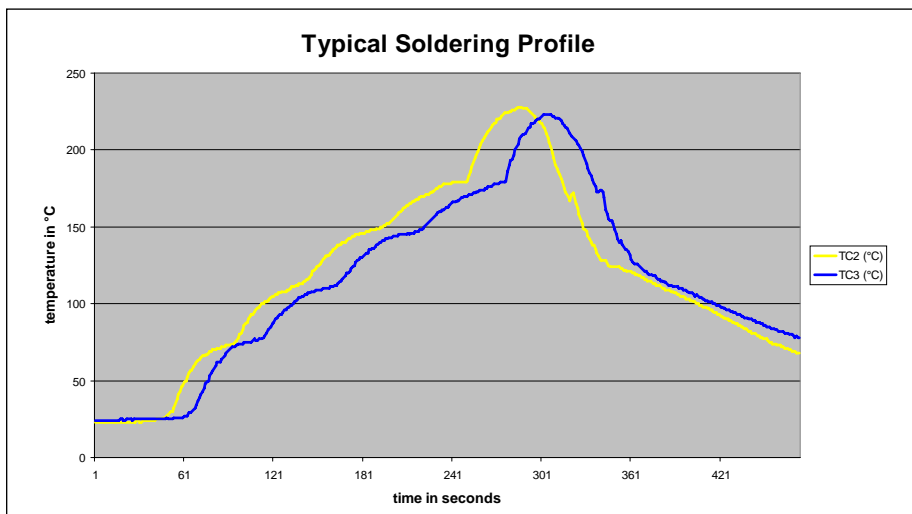
**PC Board Layout**

VIEWED TOWARD TERMINALS

**Wiring Diagram**

VIEWED TOWARD TERMINALS

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



## NOTES

The soldering profile to the left is an example and is just to show one of various profiles AZ943S has been tested with.

In order to make sure AZ943S fits to a specific profile, we strongly recommend to test under the real environment.

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