

# AZ943S

## 15 AMP (SMT) MINIATURE PC BOARD RELAY



### FEATURES

- High performance
- Low seated height
- Flux tight version
- Class F insulation (155°C) standard
- UL, CUR file E43203

### 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 AC, 7 A DC Max. switched voltage: 30 VDC or 300 VAC
<b>UL/CUR</b>	1 Form A 15 A at 125 VAC, general use 10A at 277 VAC, general use, 100,000 cycles TV - 5 120 VAC 1/2 HP at 125 VAC 125 VA at 120 VAC Pilot Duty, 100k cycles (N.O.) 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 (gold plating available)
<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>	2.4 W at 20°C (68°F)
<b>Temperature Rise</b>	32°C (58°F) at nominal coil voltage
<b>Temperature</b>	Max. 155°C (311°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 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 110°C(230°F)
<b>Storage</b>	-40°C(-40°F) to 155°C(311°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>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.



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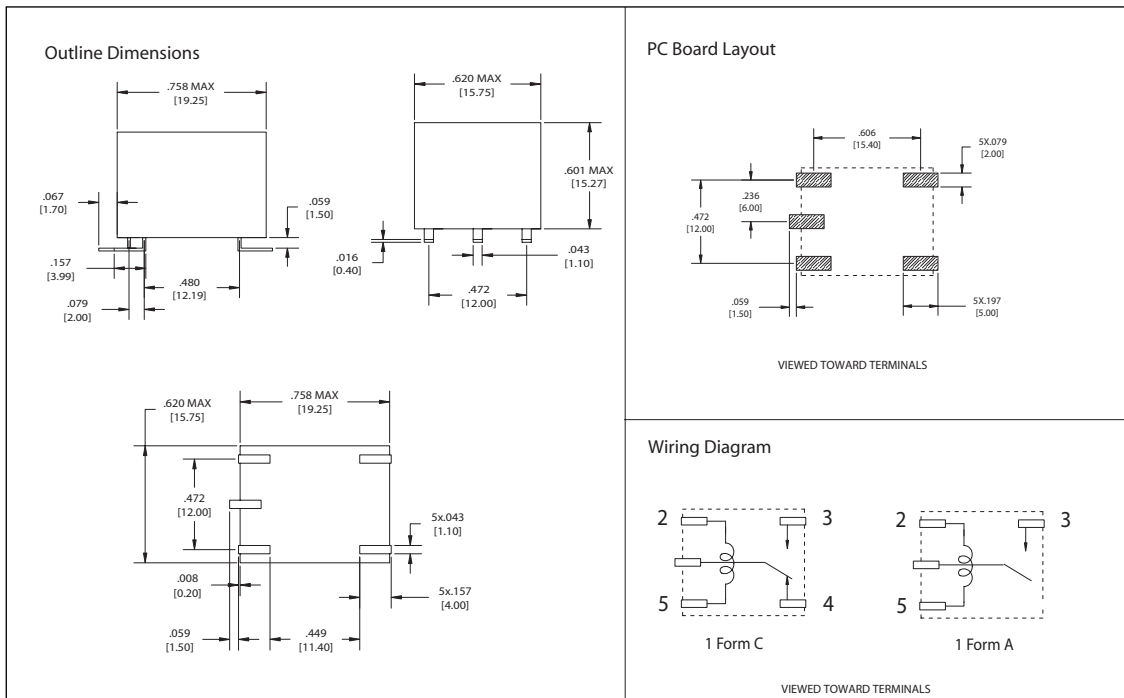
# AZ943S

## 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	AZ943S-1CH-5DF
6	4.5	13.4	100	AZ943S-1CH-6DF
9	6.8	20.1	225	AZ943S-1CH-9DF
12	9.0	26.8	400	AZ943S-1CH-12DF
18	13.5	40.2	900	AZ943S-1CH-18DF
24	18.0	53.4	1,600	AZ943S-1CH-24DF
48	36.0	107.3	6,400	AZ943S-1CH-48DF

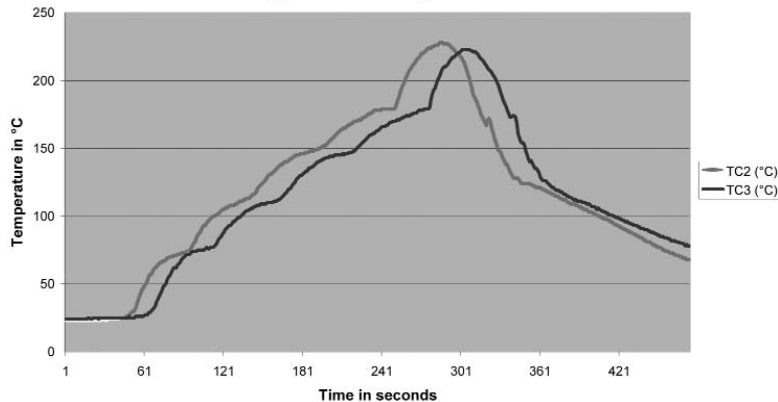
\* Substitute "1AH" in place of "1CH" to indicate 1 Form A contact. Add suffix "G" for gold plated contacts.

## MECHANICAL DATA



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

### Typical Soldering Profile



### 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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