

AZ943S

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



CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)
Ratings	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
UL/CUR	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 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
TÜV	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
VDE	10 A at 250 VAC, resistive, 70°C, 50k cycles (N.O.) 12 A at 125 VAC, resistive, 25°C, 50k cycles (N.O.) 1 Form C only 5 A at 250 VAC, res., 70°C, 50k cycles, (N.C.)
Material	Silver tin oxide, (gold plating available)
Resistance	< 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

Life Expectancy Mechanical Electrical	1 x 10 ⁷ 1 x 10 ⁵ at 10A 277VAC Res.
Operate Time	10ms max.
Release Time	5ms max. (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	1500Vrms contact to coil 750Vrms across contacts
Insulation Resistance	100 megohms min. at 500VDC, 50% RH
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature Operating Storage	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)
Vibration	0.062" DA at 10–55Hz
Shock	10g
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C.
Max. Solder Temp.	270°C (518°F)
Max. Solder Time	5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight	10 grams

COIL

Power	
At Pickup Voltage	203mW
Max Continuous Dissipation	1.8W at 20°C (68°F) Class B 2.4W at 20°C (68°F) Class F
Temperature Rise	32°C (58°F) at nominal coil voltage
Temperature	Max. 130°C (266°F) Class B Max. 155°C (311°F) Class F

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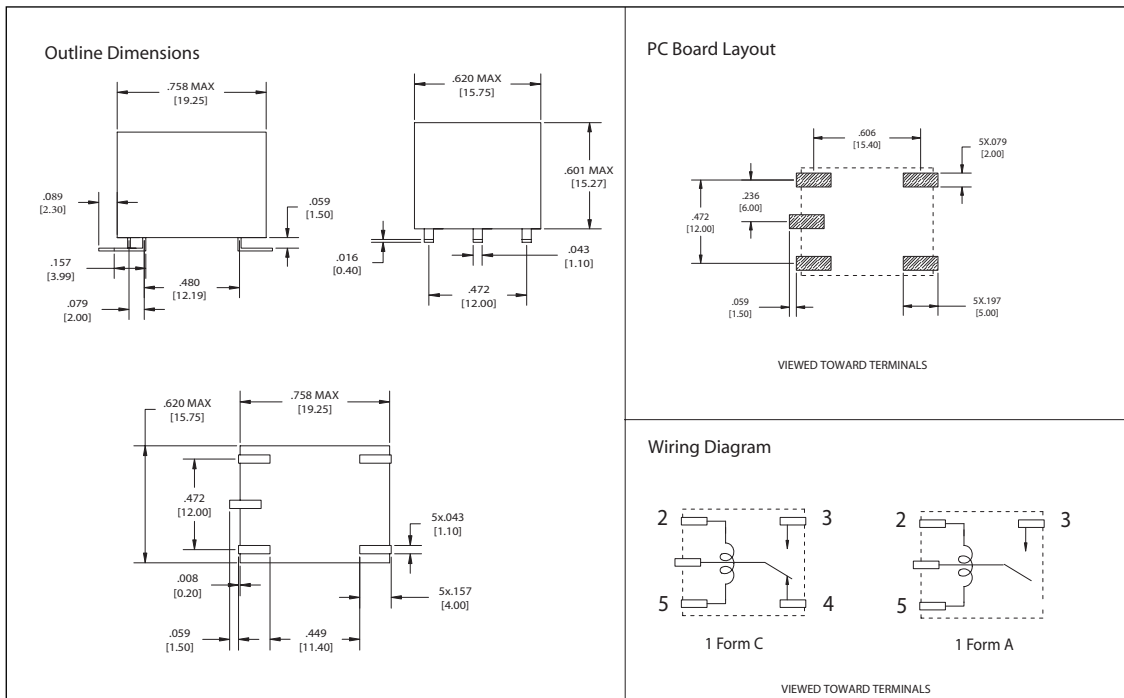
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RELAY ORDERING DATA

STANDARD RELAYS				
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-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

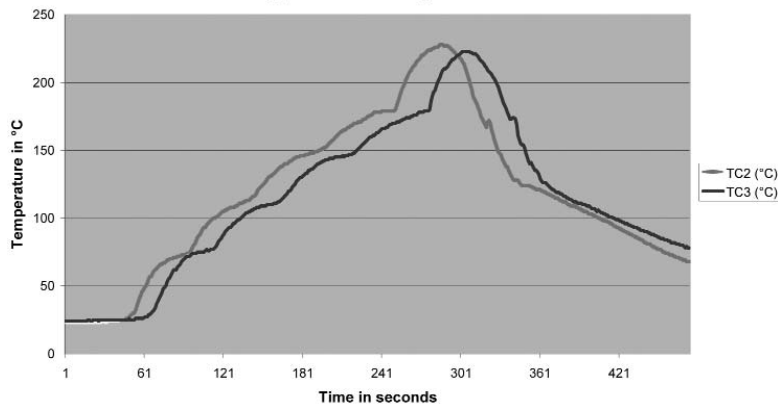
* Substitute "1AH" in place of "1CH" to indicate 1 Form A contact. Add suffix "E" for epoxy sealed versions. Add suffix "G" for gold plated contacts. To indicate Class F version, add suffix "F".

MECHANICAL DATA



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

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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