

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

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 120VAC, Res. 6k cycles, TV-5 120VAC 70°C 10A at 277VAC, General use, 100k cycles, 70°C 9.8 FLA 1/2HP at 125VAC, 70°C (N.O.) 125VA at 120VAC Pilot Duty, 100k cycles (N.O.), 70°C 10A at 30VDC, Res. (N.O.)70°C 8A at 125VAC, 1000W Incandescent Lamp, Tungsten, 70°C
TÜV	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 9.8 FLA, 58.8 LRA 1/2HP at 125VAC, 6K cycles 70°C (N.O.) 10A at 30VDC, Res. (N.O.)70°C 7A at 30VDC, Res. (N.C.)70°C
Material	Silver tin oxide (gold plating available not TÜV approved)
Resistance	< 100 milliohms initially (6V, 1A method)

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

GENERAL DATA

Life Expectancy	
Mechanical	1 x 10 ⁷
Electrical	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.)	150Vrms 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	At nominal coil voltage
Operating	-40°C(-40°F) to 90°C(194°F) Class B -40°C(-40°F) to 110°C(230°F) Class F
Storage	-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

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

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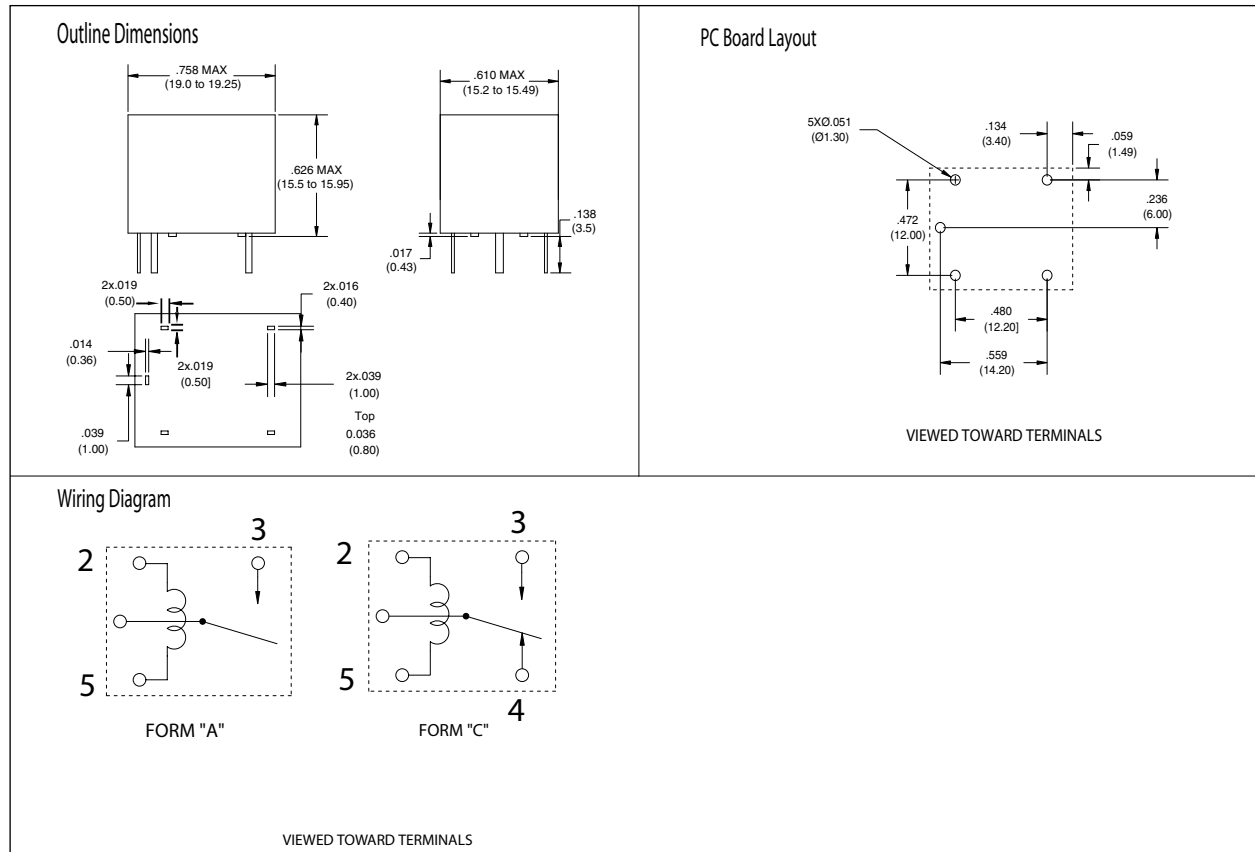
AZ943

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: $\pm .010$ "

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