

AZ943

15 AMP MINIATURE PC BOARD RELAY

FEATURES

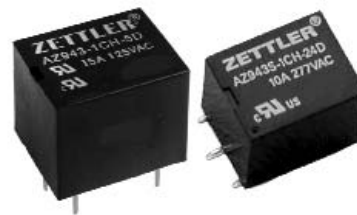
- High performance
- Low seated height
- Flux tight and sealed versions available
- SMT version available
- 6 kV surge withstand (AZ943H version)
- Class B insulation (130°C) standard
- Class F insulation (155°C) available
- UL, CUR file E43203
- TÜV file R2134654

CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)
Ratings	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
UL/CUR	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.)
TÜV	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.)
Material	Silver tin oxide (gold plating available)
Resistance	< 100 milliohms initially (24 V, 1 A method)

COIL

Power	
At Pickup Voltage	203 mW
Max Continuous Dissipation	1.8 W at 20°C (68°F) Class B 2.4 W 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 Electrical	1 x 10 ⁷ 1 x 10 ⁵ at 10 A 277 VAC Res.
Operate Time	10 ms max.
Release Time	5 ms max. (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	3000 Vrms contact to coil (6kV version) 1500 Vrms contact to coil 1000 Vrms across contacts
Insulation Resistance	100 megohms min. at 500 VDC, 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 10–55 Hz
Shock	10 g
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

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.

75 COLUMBIA ALISO VIEJO, CA 92656 • PHONE: (949) 831-5000 FAX: (949) 831-8642 E-MAIL: SALES@AZETTLER.COM

1/5/05W

AZ943

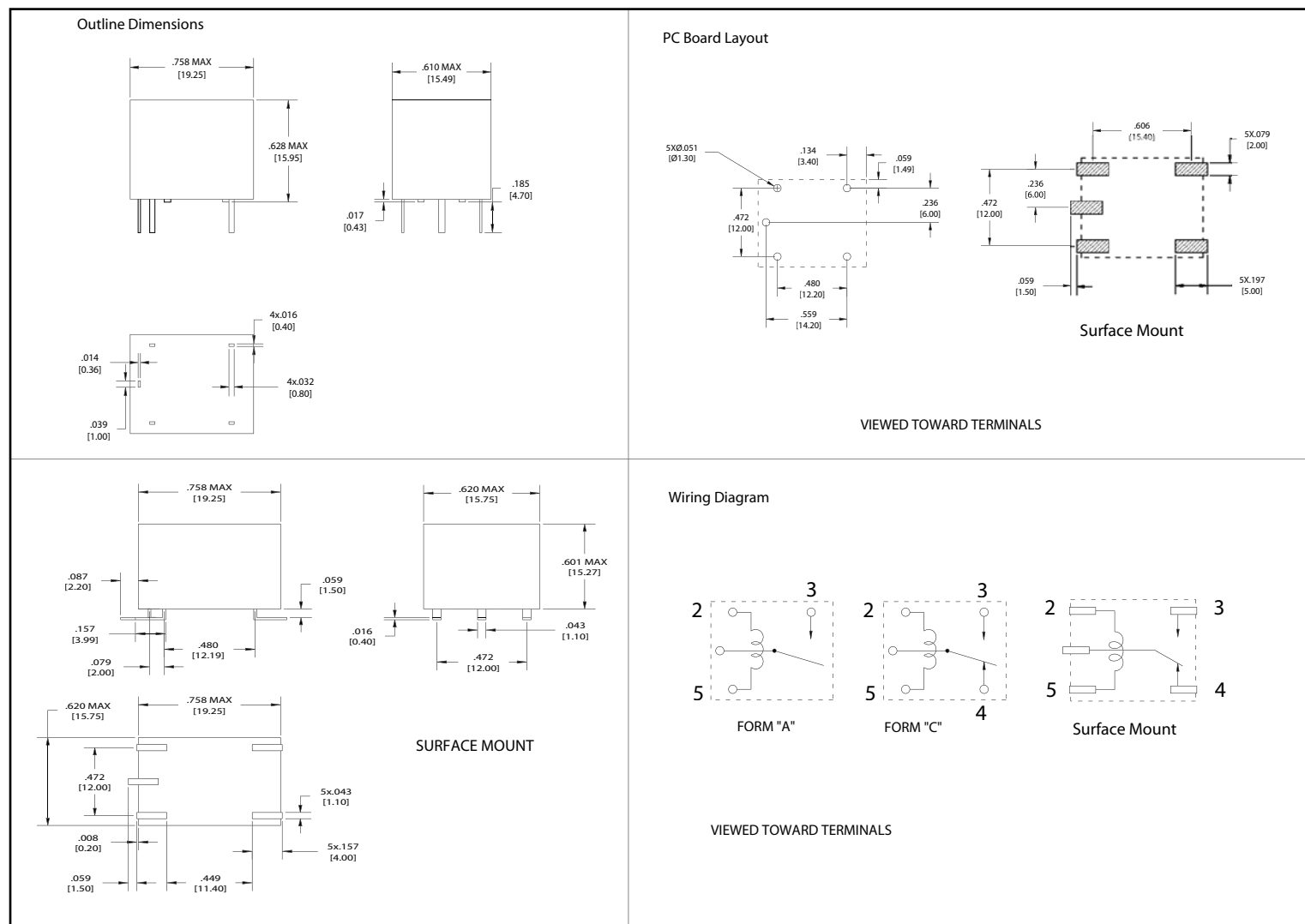
RELAY ORDERING DATA

STANDARD RELAYS					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	THT Through Hole	SMT
5	11.2	70	3.8	AZ943-1CH-5D	AZ943S-1CH-5D
6	13.4	100	4.5	AZ943-1CH-6D	AZ943S-1CH-6D
9	20.1	225	6.8	AZ943-1CH-9D	AZ943S-1CH-9D
12	26.8	400	9.0	AZ943-1CH-12D	AZ943S-1CH-12D
18	40.2	900	13.5	AZ943-1CH-18D	AZ943S-1CH-18D
24	53.4	1,600	18.0	AZ943-1CH-24D	AZ943S-1CH-24D
48	107.3	6,400	36.0	AZ943-1CH-48D	AZ943S-1CH-48D

*Replace "AZ943" with "AZ943H" to indicate 6 kV surge version. Substitute "1AH" in place of "1CH" to indicate 1 Form A contact. Substitute "1AT" or "1CT" in place of "1AH" or "1CH" respectively to indicate extended life contacts. Add suffix "E" for epoxy sealed versions of the THT version. Add suffix "G" for gold plated contacts. To indicate Class F version, add suffix "F".

NOTE: UL Pending on "H" version and "Extended life" version.

MECHANICAL DATA



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



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