AZ943

15 AMP
MINIATURE
PC BOARD RELAY

FEATURES

- High performance
- Low seated height
- Flux tight and sealed versions available
- Class F insulation (155°C) available
- UL, CUR file E43203
- TÜV file R50161256

CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 300 W or 2770 VA Max. switched current: 15 A (AC), 10 A (DC) Max. switched voltage: 30 VDC or 300 VAC
Rated Load **UL**	10 A at 277 VAC, general use, 70°C, 100k cycles 10 A at 30 VDC, resistive, 70°C (N.O.) 1.5 HP at 125 VAC, 70°C, 6k cycles (N.O.) SPST (1 Form A) 15 A at 125 VAC, general use, 70°C, 6k cycles 12 A at 120 VAC, resistive, 70°C, 6k cycles 8 A at 125 VAC, tungsten, 70°C SPDT (1 Form C) 10 A at 120 VAC, resistive, 70°C, 100k cycles (N.O.) 10 A at 120 VAC, resistive, 70°C, 6k cycles (N.C.) 7 A at 30 VDC, resistive, 70°C (N.C.)
TÜV	12 A at 125 VAC, resistive, 85°C, 10k cycles 10 A at 277 VAC, resistive, 85°C, 10k cycles 5 A at 250 VAC, resistive, 85°C, 25k cycles SPST (1 Form A) 10 A at 277 VAC, resistive, 85°C, 25k cycles
Material	Silver tin oxide
Resistance	< 100 milliohms initially (at 24 V, 1 A, voltage drop method)

COIL

Power	
At Pickup Voltage **Max Continuous Dissipation**	203 mW 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 10^6 1 x 10^5 at 10A 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.)	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**	At nominal coil voltage -40°C(-40°F) to 70°C(158°F) class B -40°C(-40°F) to 85°C(185°F) class F
Vibration	0.062" (1.5 mm) 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
Weight	10 g
Packing unit in pcs	20 per plastic tube / 1000 per carton box

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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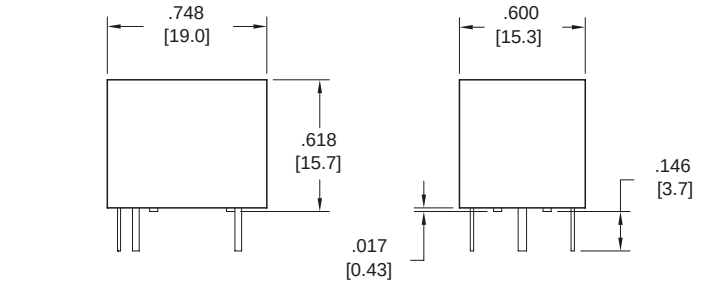
AZ943

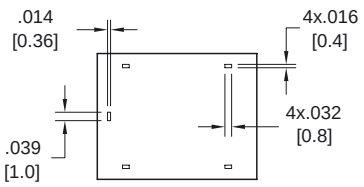
RELAY ORDERING DATA

STANDARD RELAYS					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ±10%	Unsealed	Sealed
5	3.8	11.2	70	AZ943–1CH–5D	AZ943–1CH–5DE
6	4.5	13.4	100	AZ943–1CH–6D	AZ943–1CH–6DE
9	6.8	20.1	225	AZ943–1CH–9D	AZ943–1CH–9DE
12	9.0	26.8	400	AZ943–1CH–12D	AZ943–1CH–12DE
18	13.5	40.2	900	AZ943–1CH–18D	AZ943–1CH–18DE
24	18.0	53.4	1,600	AZ943–1CH–24D	AZ943–1CH–24DE
36	27.0	80.1	3,600	AZ943–1CH–36D	AZ943–1CH–36DE
48	36.0	107.3	6,400	AZ943–1CH–48D	AZ943–1CH–48DE

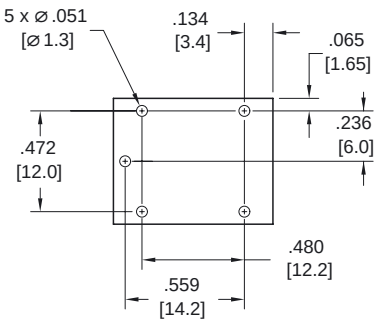
*Substitute “1AH” in place of “1CH” to indicate 1 Form A contact. To indicate Class F version, add suffix “F”.

MECHANICAL DATA



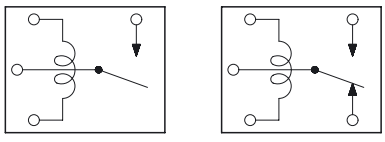


PC BOARD LAYOUT



VIEWED TOWARDS TERMINALS

WIRING DIAGRAMS



FORM "A" FORM "C"

VIEWED TOWARDS TERMINALS

Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

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