

AZ943

15 AMP MINIATURE PC BOARD RELAY

FEATURES

- High performance
- Low seated height
- Flux tight and sealed versions available
- UL, CUR file E43203
- Class B insulation (130°C) standard



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 Ratings	1 Form A 15 A at 125 VAC, general use 10A at 277 VAC, general use, 100,000 cycles TV - 5 120 VAC 1 Form C 10 A at 277 VAC, general use, 100,000 cycles
Material	AgSnO ₂
Resistance	< 100 milliohms initially (24 V, 1 A method)

COIL

Power	
At Pickup Voltage	203 mW
Max Continuous Dissipation	1.0 W at 20°C (68°F)
Temperature Rise (at nominal coil voltage)	27°C (49°F)
Temperature	Max. 130°C (266°F)

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	1 x 10 ⁶
Electrical	1 x 10 ⁵ at rated load
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	At nominal coil voltage
Operating	-40°C(-40°F) to 95°C(203°F)
Storage	-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
Weight	10 g

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RELAY ORDERING DATA

STANDARD RELAYS					
COIL SPECIFICATIONS				ORDER NUMBER	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	Unsealed	Sealed
5	8.3	70	3.8	AZ943-1CH-5D	AZ943-1CH-5DE
6	10.0	100	4.5	AZ943-1CH-6D	AZ943-1CH-6DE
9	15.0	225	6.8	AZ943-1CH-9D	AZ943-1CH-9DE
12	20.0	400	9.0	AZ943-1CH-12D	AZ943-1CH-12DE
18	30.0	900	13.5	AZ943-1CH-18D	AZ943-1CH-18DE
24	40.0	1,600	18.0	AZ943-1CH-24D	AZ943-1CH-24DE
48	67.0	6,200	36.0	AZ943-1CH-48D	AZ943-1CH-48DE

Substitute "1AH" in place of "1CH" to indicate 1 Form A contact.

MECHANICAL DATA

Outline Dimensions

Dimensions shown:
 Front view: .748 [19.0] (width), .618 [15.7] (height)
 Side view: .600 [15.3] (width), .185 [4.7] (height)
 Terminal spacing: .017 [0.43] (between terminals)
 Mounting hole offset: .014 [0.36] (from edge), .039 [1.0] (from terminal)
 Contact spacing: 4x.016 [0.4] (between contacts), 4x.032 [0.8] (from terminal)

PC Board Layout

Dimensions shown:
 Hole diameter: 5x.051 [1.3]
 Hole spacing: .134 [3.4] (between holes)
 Hole offset: .059 [1.49] (from edge)
 Terminal width: .472 [12.0]
 Terminal spacing: .236 [6.0] (between terminals)
 Board width: .559 [14.2] (between terminals)
 Board offset: .480 [12.2] (from edge)

VIEWED TOWARD TERMINALS

Wiring Diagram

FORM "A" FORM "C"

VIEWED TOWARD TERMINALS

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