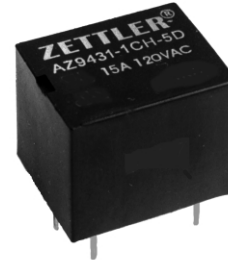


AZ9431

15 AMP MINIATURE PC BOARD RELAY

FEATURES

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



CONTACTS

Arrangement	SPST N.O. (1 Form A) SPDT (1 Form C)
Ratings Medium Duty	Max. switched power: 240 W or 1200 VA Max. switched current: 10 A Max. switched voltage: 150* VDC or 300 VAC
Heavy Duty	Max. switched power: 360 W or 2500 VA Max. switched current: 15 A Max. switched voltage: 150* VDC or 300 VAC
UL/CUR Ratings Medium Duty	10 A at 120 VAC, General Use 10 A at 24 VDC, General Use
Heavy Duty	10 A at 250 VAC, General Use 15 A at 120 VAC, General Use 15 A at 24 VDC, General Use *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.
Material	Medium Duty: Silver cadmium oxide Heavy Duty: Silver tin oxide
Resistance	< 100 milliohms initially (24 V, 1 A method)

COIL

Power	
At Pickup Voltage	203 mW
Max Continuous Dissipation	1.7 W at 20°C (68°F)
Temperature Rise (at nominal coil voltage)	22°C (40°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 Electrical	1 x 10 ⁶ 1 x 10 ⁵ at 10 A 120 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 Storage	At nominal coil voltage -40°C(-40°F) to 100°C(212°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
Weight	10 g



AMERICAN ZETTLER, INC.

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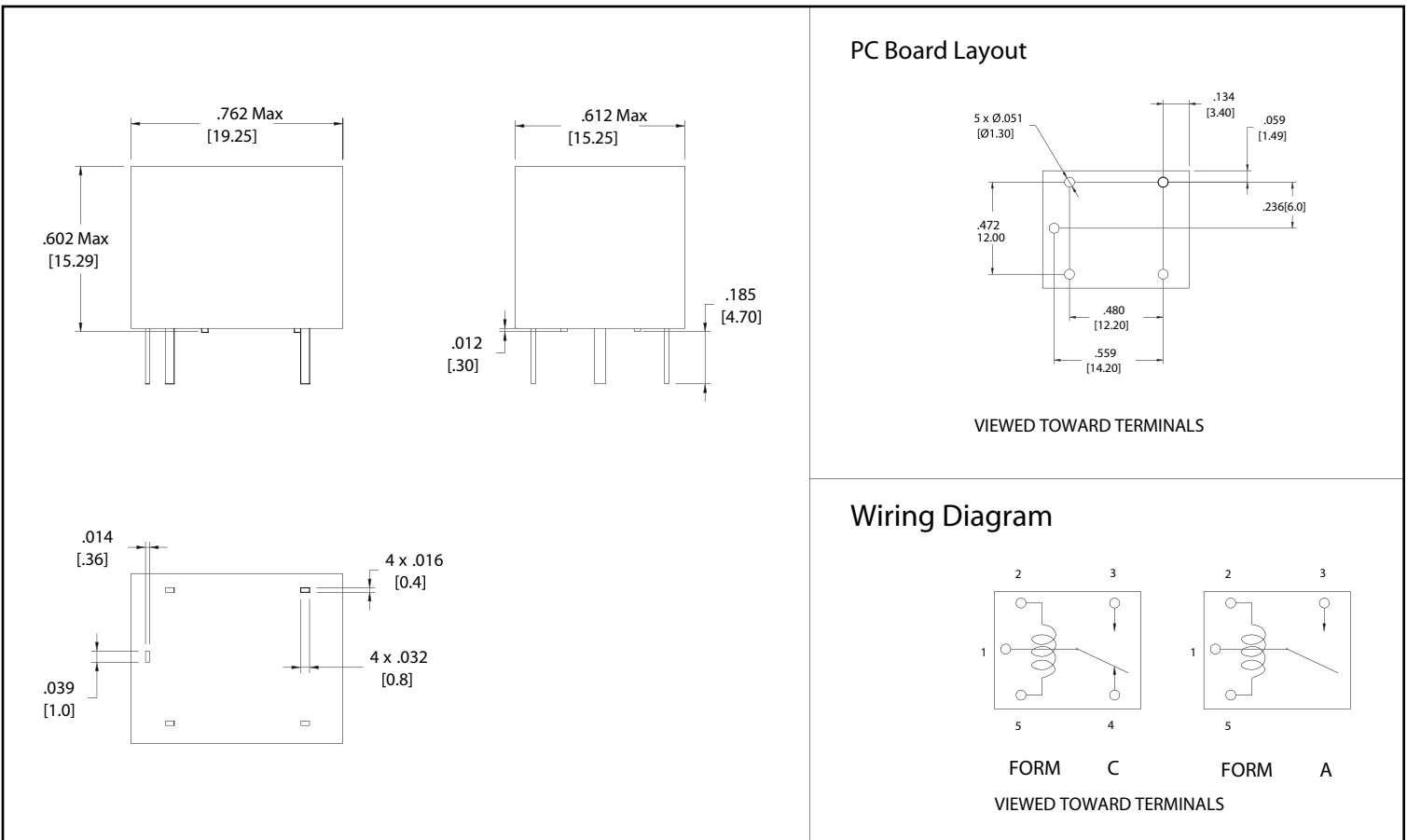
AZ9431

RELAY ORDERING DATA

STANDARD RELAYS				ORDER NUMBER*			
COIL SPECIFICATIONS							
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ±10%	Must Operate VDC	Medium Duty 10 Amp contact)		Heavy duty (15 Amp contact)	
				Unsealed	Sealed	Unsealed	Sealed
5	10.9	70	3.8	AZ9431-1C-5D	AZ9431-1C-5DE	AZ9431-1CH-5D	AZ9431-1CH-5DE
6	13.0	100	4.5	AZ9431-1C-6D	AZ9431-1C-6DE	AZ9431-1CH-6D	AZ9431-1CH-6DE
9	19.5	225	6.8	AZ9431-1C-9D	AZ9431-1C-9DE	AZ9431-1CH-9D	AZ9431-1CH-9DE
12	26.0	400	9.0	AZ9431-1C-12D	AZ9431-1C-12DE	AZ9431-1CH-12D	AZ9431-1CH-12DE
18	39.1	900	13.5	AZ9431-1C-18D	AZ9431-1C-18DE	AZ9431-1CH-18D	AZ9431-1CH-18DE
24	52.1	1,600	18.0	AZ9431-1C-24D	AZ9431-1C-24DE	AZ9431-1CH-24D	AZ9431-1CH-24DE
48	104.3	6,400	36.0	AZ9431-1C-48D	AZ9431-1C-48DE	AZ9431-1CH-48D	AZ9431-1CH-48DE

*Substitute "1A" or "1AH" in place of "1C" or "1CH" to indicate 1 Form A.

MECHANICAL DATA



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



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