

AZ937

SENSITIVE SUBMINIATURE RELAY

FEATURES

- Extremely small footprint utilizing only 0.22 square inch of PCB area
- Thin vertical profile only 0.275" wide
- 1 Form A contact with up to 3 Amp switching capability
- High sensitivity, 113 mW pickup
- Dielectric strength 4000 Vrms contact to coil
- Coils to 24 VDC
- Epoxy sealed for automatic wave soldering and cleaning
- UL, CUR file E44211
- CSA file 702514
- TÜV file B020440800001

CONTACTS

Arrangement	SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 90 W or 750 VA Max. switched current: 3 A Max. switched voltage: 150* VDC or 250 VAC Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load UL/CSA	3 A at 250 VAC, general use, 200k cycles 3 A at 30 VDC, resistive, 200k cycles 1/10 HP at 250 VAC, 100k cycles
TÜV	3 A at 250 VAC/30 VDC, resistive, 200k cycles
Material	Silver nickel
Resistance	< 100 milliohms initially (at 6 V, 1 A, voltage drop method)

COIL

Power At Pickup Voltage (typical)	113 mW
Max. Continuous Dissipation	750 mW at 20°C (68°F) ambient
Temperature Rise	26°C (47°F) at nominal coil voltage
Temperature	Max. 105°C (221°F)

NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Specifications subject to change without notice.



GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 5 million operations 1 X 10 ⁵ at 3 A, 30 VDC or 250 VAC Res.
Operate Time (typical)	6 ms at nominal coil voltage
Release Time (typical)	3 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	750 Vrms between open contacts 4000 Vrms contact to coil
Insulation Resistance	1000 megohms min. at 20°C, 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 85°C (185°F) -40°C (-40°F) to 105°C (221°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	5 grams

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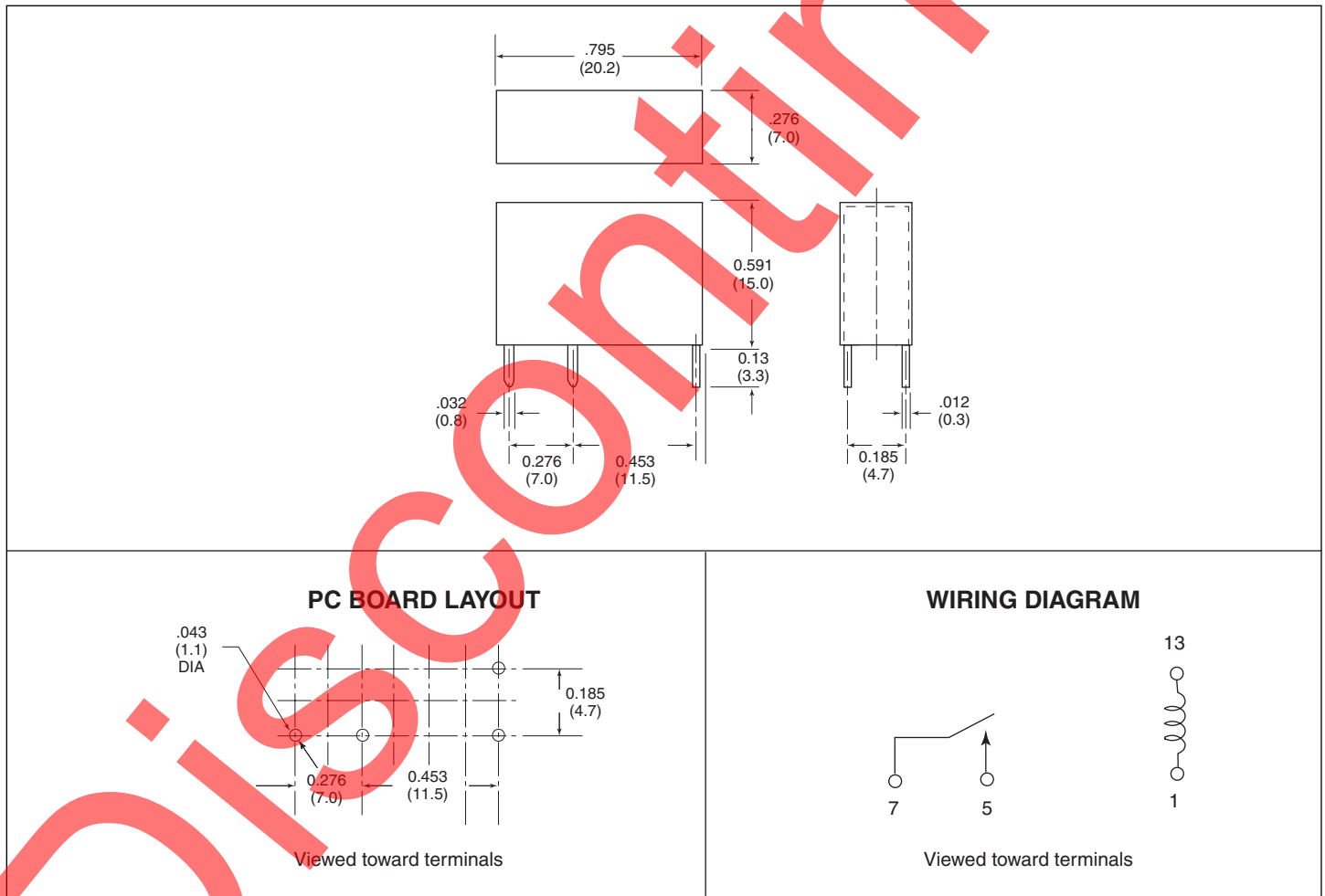
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RELAY ORDERING DATA

COIL SPECIFICATIONS				
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	ORDER NUMBER
3	5.8	45	2.3	AZ937-3
5	9.7	125	3.8	AZ937-5
6	11.6	180	4.5	AZ937-6
9	17.4	405	6.8	AZ937-9
12	23.2	720	9.0	AZ937-12
24	46.5	2,880	18.0	AZ937-24

MECHANICAL DATA



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

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This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.