

# AZ963

## SPDT SUBMINIATURE POWER RELAY

### FEATURES

- 4 kV dielectric strength, 5 kV surge
- Proof tracking index (PTI/CTI) 250
- 6 Amp switching
- 10 A version (1 Form A) upon request
- Epoxy sealed
- UL, CUR file E43203
- VDE file 40011689



### CONTACTS

<b>Arrangement</b>	SPDT (1 Form C) SPST (1 Form A and 1 Form B)
<b>Ratings</b>	Resistive load: Max. switched power: 180 W or 1500 VA Max. switched current: 6A Max. switched voltage: 220 VDC* or 380 VAC * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
<b>Rated Load UL, CUR</b>	6 A at 250 VAC, Resistive 6 A at 24 VDC, Resistive
<b>VDE</b>	5 A at 250 VAC, Resistive [1] 4 A at 250 VAC, Resistive [2]
<b>Material</b>	Silver nickel [1] or silver tin oxide [2]
<b>Resistance</b>	<100 milliohms initially

### COIL

<b>Power At Pickup Voltage (typical)</b>	113 mW
<b>Max. Continuous Dissipation</b>	0.96 W at 20°C (68°F) ambient
<b>Temperature Rise</b>	30°C (54°F) at nominal coil voltage
<b>Temperature</b>	Max. 155°C (266°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

<b>Life Expectancy Mechanical Electrical</b>	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 6 A 250 VAC Res.
<b>Operate Time (typical)</b>	6 ms at nominal coil voltage
<b>Release Time (typical)</b>	4 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	4000 Vrms coil to contact 1000 Vrms between open contacts
<b>Surge Voltage Coil to contact</b>	5,000V (at 1.2x50 µs)
<b>Insulation Resistance</b>	1000 megohms min. at 20°C 500 VDC 50% RH
<b>Insulation (according to DIN VDE 0110, IEC 60664-1)</b>	C250 Overvoltage category: III Pollution degree: 2 Nominal voltage: 250 VAC
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<b>Ambient Temperature Operating Storage</b>	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F)
<b>Vibration</b>	0.062" (1.5 mm) DA at 10–50 Hz
<b>Shock</b>	20 g operating, 100 g damage
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Max. Solder Temp.</b>	270°C (518°F)
<b>Max. Solder Time</b>	5 seconds
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	5 grams
<b>Packing unit in pcs</b>	20 per plastic tube / 1000 per carton box

**ZETTLER electronics GmbH**

Junkersstrasse 3, D-82178 Puchheim, Germany

Tel. +49 89 800 97 0  
Fax +49 89 800 97 200

office@ZETTLERelectronics.com  
www.ZETTLERelectronics.com

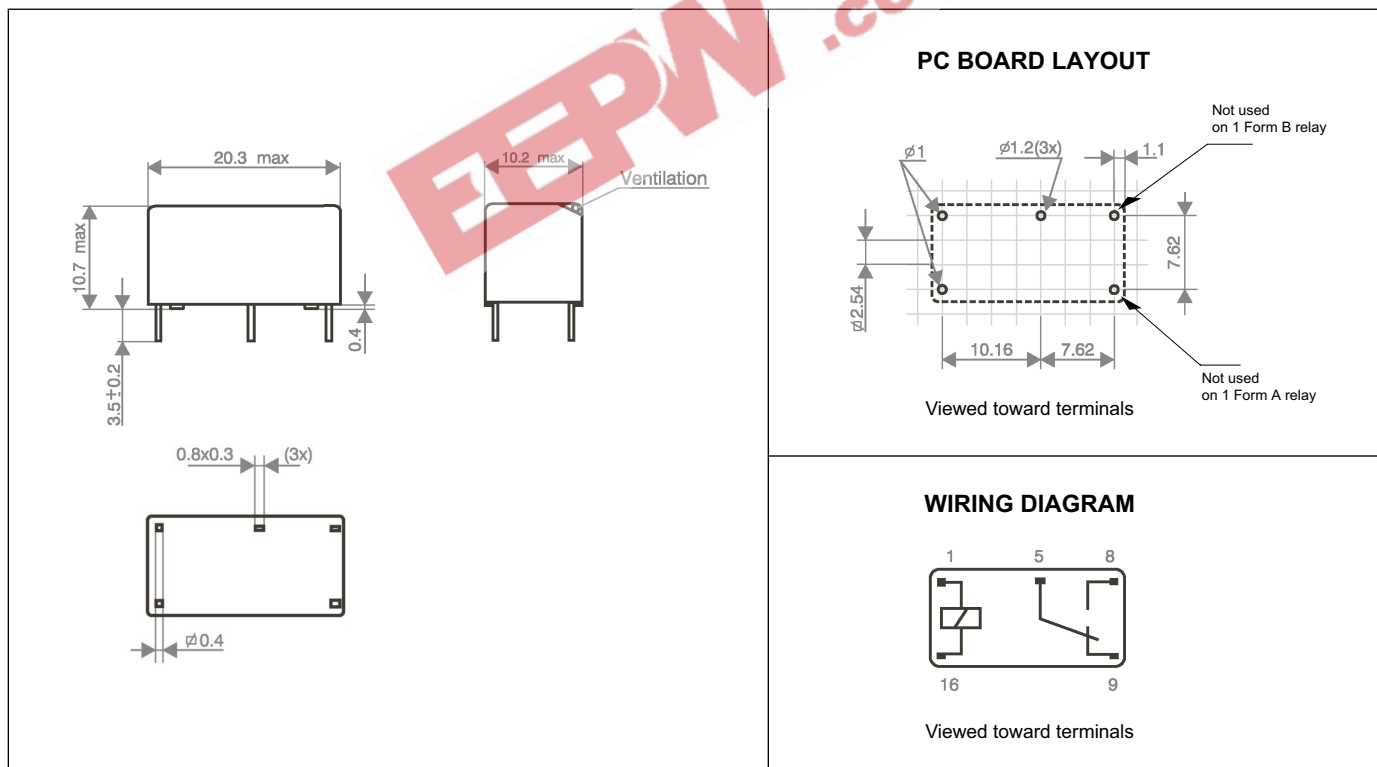
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## RELAY ORDERING DATA

STANDARD RELAYS					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	Form A (SPST)	Form C (SPDT)
3	2.25	6.6	45	AZ963-1A-3DE	AZ963-1C-3DE
5	3.75	11.0	125	AZ963-1A-5DE	AZ963-1C-5DE
6	4.5	13.2	180	AZ963-1A-6DE	AZ963-1C-6DE
9	6.75	19.6	405	AZ963-1A-9DE	AZ963-1C-9DE
12	9.0	26.4	720	AZ963-1A-12DE	AZ963-1C-12DE
18	13.5	36.6	1,620	AZ963-1A-18DE	AZ963-1C-18DE
24	18.0	52.8	2,880	AZ963-1A-24DE	AZ963-1C-24DE
36	27.0	79.2	6,480	AZ963-1A-36DE	AZ963-1C-36DE
48	36.0	105.6	11,520	AZ963-1A-48DE	AZ963-1C-48DE

\* Substitute "1B" in place of "1A" for 1 Form B contact. Add suffix "E" to "1A" or "1B" or "1C" for silver tin oxide contacts.

## MECHANICAL DATA



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

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