# 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

SPDT (1 Form C)

- · Epoxy sealed
- UL, CUR file E43203
- VDE file 40011689

# CONTACTS



#### GENERAL DATA

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	Life Expectancy	Minimum operations		
	Mechanical	1 x 10 <sup>7</sup>		
1	Electrical	1 x 10 <sup>5</sup> at 6 A 250 VAC Res.		
	Operate Time (typical)	6 ms at nominal coil voltage		
	Release Time (typical)	4 ms at nominal coil voltage		
	4,35,10	(with no coil suppression)		
	Dielectric Strength 🥟	4000 Vrms coil to contact		
	(at sea level for 1 min.)	1000 Vrms between open contacts		
	Surge Voltage			
N	Coil to contact	5,000V (at 1.2x50 μs)		
	Insulation	1000 megohms min. at 20°C		
	Resistance	500 VDC 50% RH		
	Insulation	C250		
(according to DIN VDE 0110.		Overvoltage category: III Pollution degree: 2		
	IEC 60664-1)	Nominal voltage: 250 VAC		
	Dropout	Greater than 10% of nominal coil voltage		
1	Diopout	Greater than 10% of norminal con voltage		
	Ambient Temperature	At nominal coil voltage		
	Operating	-40°C (-40°F) to 85°C (185°F)		
٦	Storage	-40°C (-40°F) to 105°C (221°F)		
	Vibration	0.062" (1.5 mm) DA at 10–50 Hz		
	Shock	20 g operating, 100 g damage		
	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)		
1	Max. Immersion Time	30 seconds		
	Weight	5 grams		
	Packing unit in pcs	20 per plastic tube / 1000 per carton box		

#### SPST (1 Form A and 1 Form B) Ratings 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. Rated Load UL, CUR 6 A at 250 VAC, Resistive 6 A at 24 VDC, Resistive VDE 5 A at 250 VAC, Resistive [1] 4 A at 250 VAC, Resistive [2] Material Silver nickel [1] or silver tin oxide [2] Resistance <100 milliohms initially

#### COIL

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

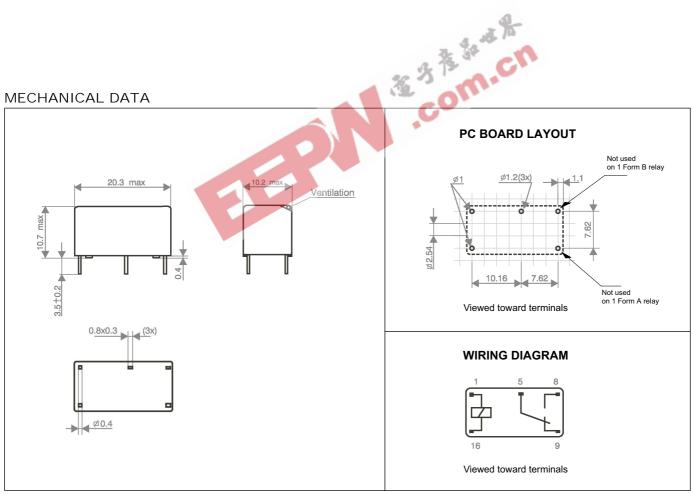
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# AZ963\_

#### RELAY ORDERING DATA

	COIL	ORDER NUMBER*			
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 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–12DI
18	13.5	36.6	1,620	AZ963–1A–18DE	AZ963–1C–18DI
24	18.0	52.8	2,880	AZ963-1A-24DE	AZ963–1C–24DI
36	27.0	79.2	6,480	AZ963-1A-36DE	AZ963-1C-36D
48	36.0	105.6	11,520	AZ963–1A–48DE	AZ963–1C–48DI

\* 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.



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

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