# 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**

Arrangement	SPDT (1 Form C) 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		
OL, COR	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.

# **GENERAL DATA**

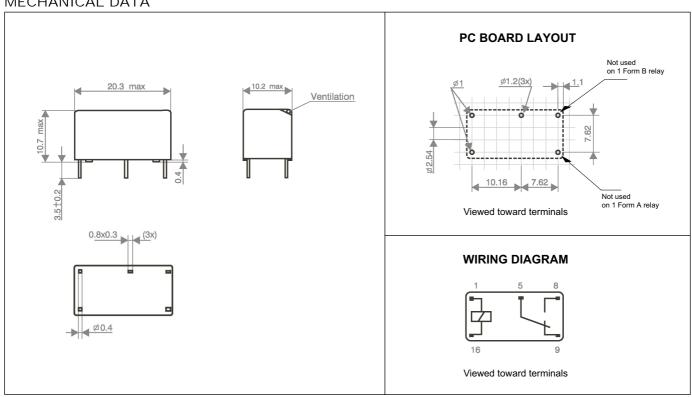
Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 6 A 250 VAC Res.		
Operate Time (typical)	6 ms at nominal coil voltage		
Release Time (typical)	4 ms at nominal coil voltage (with no coil suppression)		
Dielectric Strength (at sea level for 1 min.)	4000 Vrms coil to contact 1000 Vrms between open contacts		
Surge Voltage Coil to contact	5,000V (at 1.2x50 μs)		
Insulation Resistance	1000 megohms min. at 20°C 500 VDC 50% RH		
Insulation (according to DIN VDE 0110, IEC 60664-1)	C250 Overvoltage category: III Pollution degree: 2 Nominal voltage: 250 VAC		
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" (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)		
Max. Immersion Time	30 seconds		
Weight	5 grams		
Packing unit in pcs	20 per plastic tube / 1000 per carton box		

# **RELAY ORDERING DATA**

COIL SPECIFICATIONS				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-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: ± .010"

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