# 8 AMP SUBMINIATURE POWER RELAY

#### **FEATURES**

- High sensitivity, 120 mW pickup
- Dielectric strength 5000 Vrms
- Isolation spacing greater than 8 mm
- 8 Amp switching capability
- Class B insulation standard, Class F version available
- Epoxy sealed version for automatic wave soldering and cleaning available
- UL, CUR, file E43203
- VDE 131637ÜG



#### **CONTACTS**

Arrangement	SPDT (1 Form C) SPST (1 Form A)	
Ratings	Resistive load:  Max. switched power: 240 W or 2000 VA  Max. switched current: 8 A  Max. switched voltage: 240* VDC or 440 VAC  UL, CUR Rating: 8 A at 30 VDC / 250 VAC  VDE Rating: 8 A at 250 VAC  *Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.	
Material	Silver cadmium oxide Silver tin oxide available upon request	
Resistance	< 100 milliohms initially	

#### COIL

Power			
At Pickup Voltage (typical)	120 mW		
Max. Continuous Dissipation	1.4 W at 20°C (68°F) ambient 1.1 W at 40°C (104°F) ambient		
Temperature Rise	20°C (36°F) at nominal coil voltage		
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. Specifications subject to change without notice.
- 4. Class F version not VDE approved.

#### GENERAL DATA

Life Expectancy	Minimum operations		
Mechanical	10 million		
Electrical	1 X 10 <sup>5</sup> at 8 A 240 VAC res.		
Operate Time (typical)	7 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.)	5000 Vrms coil to contact 1000 Vrms between open contacts		
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH		
Insulation	C250		
(according to DIN VDE 0110,	Overvoltage category: III Pollution degree: 3		
IEC 60664-1)	Nominal voltage: 250 VAC		
Dropout	Greater than 10% of nominal coil voltage		
Ambient Temperature	At nominal coil voltage		
Operating	-40°C (-40°F) to 85°C (185°F)		
Storage	-40°C (-40°F) to 85°C (185°F)		
Vibration	Break Contact: 5 g at 10500 Hz Make Contact: 20 g at 10500 Hz		
Shock	10 g		
Enclosure	P.B.T. polyester, UL94 V-O		
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	8 grams		

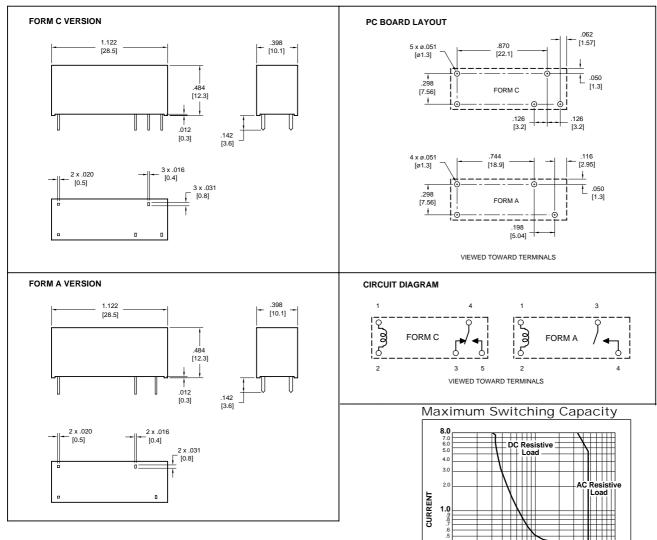
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#### **RELAY ORDERING DATA**

COIL SPECIFICATIONS			ORDER NUMBER*		
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance	Must Operate VDC	1 Form A (SPST-NO)	1 Form C (SPDT)
5	11.8	113 ± 10%	3.5	AZ6961-1A-5D	AZ6961-1C-5D
6	14.1	164 ± 10%	4.2	AZ6961-1A-6D	AZ6961-1C-6D
12	28.2	617 ± 10%	8.4	AZ6961-1A-12D	AZ6961-1C-12D
24	56.4	2350 ± 10%	16.8	AZ6961-1A-24D	AZ6961-1C-24D
48	112.8	9600 ± 15%	33.6	AZ6961-1A-48D	AZ6961-1C-48D
60	141.0	12500 ± 15%	42.0	AZ6961-1A-60D	AZ6961-1C-60D

<sup>\*</sup>Add suffix "E" for sealed version. Add suffix "F" for Class F version.

#### MECHANICAL DATA



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

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VOLTAGE