## **AZ725** \_

# 20A MINIATURE POWER RELAY

#### **FEATURES**

- Dielectric strength 5000 Vrms
- 20 Amp switching—single pole contacts
- Isolation spacing greater than 8mm
- Molded materials: all 94 V-0
- UL, CURfile E43203



#### **CONTACTS**

Arrangement	SPST (1 Form C) SPST (1 Form A and 1 Form B)		
Ratings	Resistive load: Max. switched power: 480 W or 5000 VA Max. switched current: 20 A Max. switched voltage: 150* VDC or 400 VAC *Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.		
Rated Load UL	20 A at 250 VAC, resistive 70°C		
Material	Silver Tin oxide		
Resistance	< 30 milliohms initially		

#### COIL

Power			
At Pickup Voltage (typical)	270 mW		
Max. Continuous Dissipation	2.6 W at 20°C (68°F) ambient 2.0 W at 40°C (104°F) ambient		
Temperature Rise	32°C (58°F) 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.

#### **GENERAL DATA**

Life Expectancy	Minimum operations		
Mechanical	2 x 10 <sup>7</sup>		
Electrical	1 x 10 <sup>5</sup> at 16 A 250 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		
Dropout	Greater than 10% of nominal coil voltage		
Ambient Temperature	At nominal coil voltage		
Operating Storage	-40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 130°C (266°F)		
Vibration	0.062" DA at 10-55 Hz		
Shock	10 g		
Enclosure	P.B.T. polyester		
Terminals	Tinned copper alloy		
Max. Solder Temp.	270°C (518°F)		
Max. Solder Time	5 seconds		
Max. Immersion Time	30 seconds		
Max. Solvent Temp	80°C (176°F)		
Weight	19 grams		

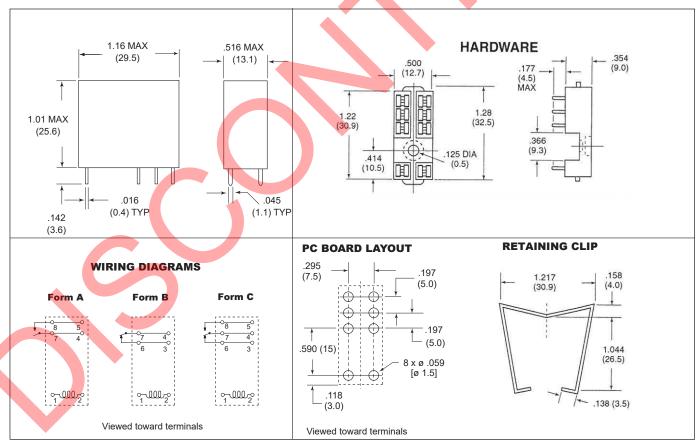
#### **RELAY ORDERING DATA**

COIL SPECIFICATIONS — DC Coil			ORDER NUMBER*			
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal mA ± 10%	Coil Resistance ±10%	Form A (SPST)	Form C (SPDT)
5	3.5	11.3	102.0	49	AZ725-1AE-5D	AZ725-1CE-5D
6	4.2	13.3	88.21	68	AZ725-1AE-6D	AZ725-1CE-6D
12	8.4	26.0	46.2	260	AZ725-1AE-12D	AZ725-1CE-12D
24	16.8	53.5	21.8	1,100	AZ725-1AE-24D	AZ725-1CE-24D
48	33.6	107.0	10.9	4,400	AZ725-1AE-48D	AZ725-1CE-48D
60	42.0	135.0	8.6	7,000	AZ725-1AE-60D	AZ725-1CE-60D

<sup>\*</sup> Substitute "1BE" in place of "1AE" for Form B contacts.

DESCRIPTION	ORDER NUMBER		
Socket	ST484-U1		
Retaining Clip	ST482–2		

#### **MECHANICAL DATA**



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

### AMERICAN ZETTLER, INC.

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