## AZ732 **\_**

# MINIATURE POWER RELAY

#### **FEATURES**

- Dielectric strength 4000 Vrms coil to contact
- Isolation spacing greater than 8 mm
- Approvals/Standards include: UL, VDE, IEC, SEMKO, CEE
- Double pole Forms A, B, C, available
- 10 Amp switching
- SLIMPAK™ version saves board space
- Epoxy sealed version for automatic wave soldering and cleaning
- UL, CUR file E44211; VDE 4120–4940–4002/A1



#### **CONTACTS**

Arrangement	DPDT (2 Form C)		
Ratings	Resistive load:  Max. switched power: 300 W or 2770 VA  Max. switched current: 10 A, 51 A for 2 ms  Max. switched voltage: 150* VDC or 400 VAC  UL Rating:10 A at 30 VDC or 277 VAC  1/8 HP 120 VAC motor load  *Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.		
Material	Silver cadmium oxide		
Resistance	< 30 milliohms initially (at rated current, voltage drop method)		

#### COIL

Power	
At Pickup Voltage (typical)	Standard coil: 337 mW Sensitive coil: 250 mW
Max. Continuous Dissipation	1.9 W at 20°C (68°F) ambient 1.4 W at 40°C (104°F) ambient
Temperature Rise	Standard: 40°C (72°F) at nominal coil voltage Sensitive: 32°C (58°F) at nominal coil voltage
Temperature	Max. 110°C (230°F)

#### **NOTES**

- 1. All values at 20°C (68°F).
- 2. Relay may pull in with less than "Must Operate" value.
- 3. Unsealed relays should not be dip cleaned.
- 4. Specifications subject to change without notice.

#### GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 30 million 1 x 10 <sup>5</sup> at 10 A 30 VDC 1 x 10 <sup>5</sup> at 10 A 115 VAC	
Operate Time (typical)	7 ms at nominal coil voltage	
Release Time (typical)	2 ms at nominal coil voltage (with no coil suppression)	
Dielectric Strength (at sea level for 1 min.)	4000 Vrms contacts to coil 2500 Vrms contact to contact 1000 Vrms between open contacts	
Insulation Resistance	10,000 megohms min. at 20°C, 500 VDC, 50% RH	
Dropout	Greater than 10% of nominal coil voltage	
Ambient Temperature Operating Storage	At nominal coil voltage Standard: -55°C (-67°F) to 70°C (158°F) Sensitive: -55°C (-67°F) to 80°C (176°F) Both: -55°C (-67°F) to 110°C (230°F)	
Vibration	0.062" DA at 10-55 Hz	
Shock	20 g	
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	20 grams	



#### **RELAY ORDERING DATA**

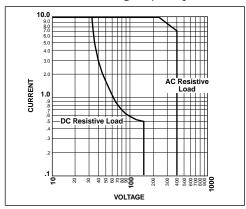
STANDARD RELAYS: 2 Form C (DPDT) Contacts						
COIL SPECIFICATIONS						
Nominal Coil		Coil Resistance		ORDER NUMBER*		
VDC	VDC	± 10%	VDC	Unsealed	Sealed	
5	8	38	3.5	AZ732-125-2	AZ2732-125-2	
6	10	58	4.2	AZ732-112-2	AZ2732-112-2	
12	19	215	8.4	AZ732-08-2	AZ2732-08-2	
24	35	740	16.8	AZ732-560-2	AZ2732-560-2	
48	74	3,200	33.6	AZ732-04-2	AZ2732-04-2	
SENSITI	SENSITIVE RELAYS: 2 Form C (DPDT) Contacts					
5	9	47	3.5	AZ732-118-52	AZ2732-118-52	
6	11	70	4.2	AZ732-509-52	AZ2732-509-52	
12	21	270	8.4	AZ732-521-52	AZ2732-521-52	
24	43	1,100	16.8	AZ732-053-52	AZ2732-053-52	
48	86	4,400	33.6	AZ732-510-52	AZ2732-510-52	

<sup>\*</sup> Substitute "4 or 54," "6 or 56" in place of "2 or 52" to indicate 2 Form A and 2 Form B respectively.

#### HARDWARE ORDERING DATA

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

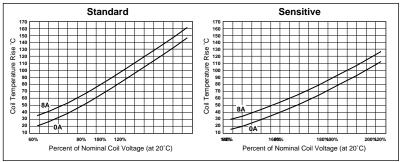
#### Maximum Switching Capacity



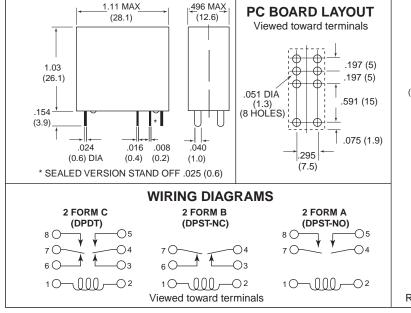
#### INTERNATIONAL APPROVALS

Passed International Electrical Code IEC 380		
Germany	VDE 0860/8.81 paragraphs 10, 14	
	VDE 0806/8.81 paragraphs 7, 11, 15, 16, 29 VDE 0631/9.77 paragraphs 9, 12, 14	
	VDE 0631/9.77 paragraphs 9, 12, 14	
	VDE 0730/T.1/3.72 paragraph 22	
	VDE 0435/9.72 (with production monitoring)	
U.S.A.	UL File E44211	

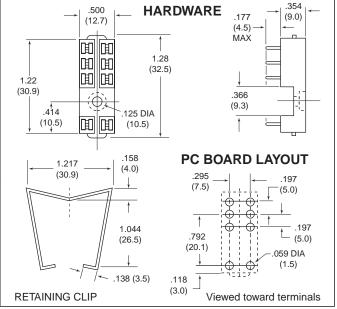
#### Coil Temperature Rise



#### MECHANICAL DATA



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





### AMERICAN ZETTLER, INC.