# AZ8P\_

## 10 A MINIATURE POWER RELAY BISTABLE (LATCHING)

#### **FEATURES**

- Dielectric strength 4000 Vrms
- Clearance and creepage distance >3.5 mm
- Tracking index CTI 250
- Single coil latching
- Epoxy sealed
- 7 Amp switching
- 10 Amp version (1 Form A only) available
- UL, CUR file E43203



#### **CONTACTS**

Arrangement	SPDT (1 Form C) SPST (1 Form A) 10 A version only			
Ratings Form A	Resistive load: Max. switched power: 240 W or 2500 VA Max. switched current: 10 A Max. switched voltage: 220 VDC* or 300 VAC			
Form C	Max. switched power: 170 W or 1750 VA Max. switched current: 7 A Max. switched voltage: 220 VDC* or 300 VAC  * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory			
Rated Load Form A	10 A at 250 VAC, Resistive [2] 10 A at 24 VDC, Resistive [2]			
Form C	7 A at 250 VAC, Res., 50k cycles [1] 5 A at 250 VAC, Res., 100k cycles [1]			
Material	Silver nickel [1] or silver tin oxide [2]			
Resistance	< 100 milliohms initially			

#### COIL

Power				
At Pickup Voltage (typical)	700 mW			
Max. Continuous Dissipation	1.3 W 20°C (68°F) ambient			
Temperature Rise	138°C (248°F) at nominal coil voltage			
Temperature	Max. 155°C (311°F) Class 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 2 x 10 <sup>7</sup>			
Form A Form C	1 x 10 <sup>5</sup> at 10 A, 250 VAC 1 x 10 <sup>5</sup> at 5 A, 250 VAC			
Set Time (typical)	5 ms at nominal coil voltage Recommended coil pulse: 20 ms			
Reset Time (typical)	6 ms at reset voltage Recommended coil pulse: 20 ms			
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			
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) -40°C (-40°F) to 105°C (221°F)			
Vibration	0.062" DA at 10-55 Hz, 10 g at 10-50 Hz			
Shock	10 g operating, 100 g damage			
Enclosure	P.E.T. polyester, UL-94: V0			
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			
Packing unit in pcs	25 per plastic tube / 400 per carton box			

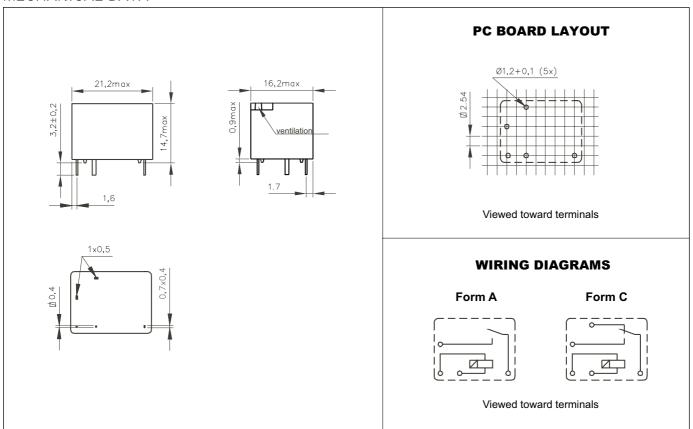


#### **RELAY ORDERING DATA**

COIL SPECIFICATIONS						ORDER NUMBER*
BISTABLE (LA						
Nominal Coil VDC	Set VDC	Max. Continuous VDC	Reset VDC	Max. Reset VDC	Coil Resistance Ohm ± 10%	
3	2.2	3.0	-0.75	-1.35	8	AZ8P1-1CH-3DE
5	3.7	5.0	-1.25	-2.25	22	AZ8P1-1CH-5DE
6	4.5	6.0	-1.50	-2.70	33	AZ8P1-1CH-6DE
9	6.7	9.0	-2.25	-4.05	74	AZ8P1-1CH-9DE
12	9.0	12.0	-3.00	-5.40	119	AZ8P1-1CH-12DE
18	13.5	18.0	-4.50	-8.10	280	AZ8P1-1CH-18DE
24	18.0	24.0	-6.00	-10.80	475	AZ8P1-1CH-24DE
36	27.0	36.0	-9.00	-16.20	1,050	AZ8P1-1CH-36DE
48	36.0	48.0	-12.00	-21.60	1,750	AZ8P1-1CH-48DE
60	45.0	60.0	-15.00	-27.00	2,750	AZ8P1-1CH-60DE

<sup>\* &</sup>quot;1CH" denotes silver nickel contacts.

#### MECHANICAL DATA



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

Substitute "1AE" in place of "1CH" for 1 Form A silver tin oxide contacts (10A version only).