# AZ21501P\_

### 50 AMP MINIATURE LATCHING POWER RELAY

#### FEATURES

- 1 Form A, B and C contacts available
- Single coil latching
- Lower cost 30A & 40A contacts available
- Class F high temperature standard
- Epoxy sealed versions available
- UL, CUR E44211

#### CONTACTS

Arrangement	SPST (1 Form A, or B) SPDT (1 Form C)				
Ratings	Resistive load:				
UL, CUR	Max. switched power: 1200 W or 13850 VA Max. switched current: 50 A Max. switched voltage: 277 VAC, 110 VDC 30A / 40A / 50A at 277VAC, 6k cycles, 25°C				
Material	silver tin oxide				
Resistance	< 50 milliohms initially (24 V, 1 A voltage drop method)				

#### COIL

Power	
At Pickup Voltage (typical)	30A, 40A : 576mW 50A : 960mW
Max. Temperature	Max. 155°C (311°F) Class F



#### **GENERAL DATA**

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 <sup>6</sup> See contact ratings.		
Set Time	15ms		
Reset Time	15ms		
Dielectric Strength (at sea level for 1 min.)	1500 Vrms contact to contact 2500 Vrms contact to coil		
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC 50% RH		
Ambient Temperature Operating	-40°C (-40°F) to 85°C (185°F)		
Vibration	0.059" 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	28 grams		

#### 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.

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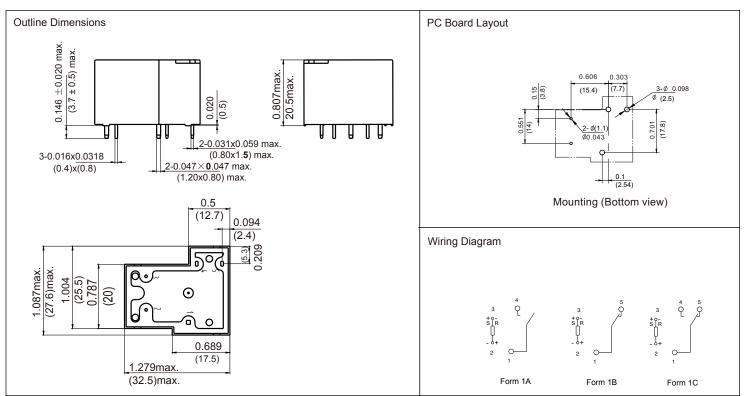
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#### **RELAY ORDERING DATA**

COI					
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resista 30A, 40A	ance ± 10% ORDER NUMBE 50A	
5	4.0	6.0	28	16.7	AZ21501P-1A-5D
12	9.6	14.4	160	96	AZ21501P-1A-12D
24	19.2	28.8	640	384	AZ21501P-1A-24D
48	38.4	57.6	2560	1536	AZ21501P-1A-48D

\*Substitute "-1B" or "-1C" in place of "-1A" for 1 Form B or 1 Form C respectively. For 30A version, add "H" after "-1A", "-1B", or "-1C". For 40A version, add "J" after "-1A", "-1B", or "-1C". Substitute "DE" in place of "D" for epoxy sealed version.

**MECHANICAL DATA** 



Tolerance: ± .010"

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This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.