AZ21501

50 AMP MINIATURE POWER RELAY

FEATURES

- 1 Form A, B and C contacts available
- AC and DC coils available
- Class F high temperature available
- Lower cost 30A contact available
- Epoxy sealed versions available
- UL, CUR file E44211

CONTACTS

Arrangement	SPST (1 Form A, or B) SPDT (1 Form C)						
Ratings	s Resistive load:						
	Max. switched power: 1200W or 7200VA						
	Max. switched current: 50A (Form A) Max. switched voltage: 300VAC, 110VDC						
	6						
UL, CUR	NO: 50A at 240VAC, Resistive [2] 40A at 240VAC, Resistive						
	30A at 277VAC, General Purpose						
	25A at 277VAC, Resistive, 100k cycles 20A at 240VAC, Resistive, 250k cycles						
	2HP at 250VAC						
	5A at 280VAC, Ballast						
	NC: 35Aat240VAC,Resistive[2]						
	30A at 240VAC / 30VDC, Resistive 20A at 277VAC, General Purpose						
	1.5 HP at 250VAC						
	5A at 280VAC, Ballast						
ΤÜV	NO: 40A at 240VAC, 14VDC 30A at 277VAC						
	NC: 30A at 240VAC,14VDC 30A at 277VAC						
Material	Silver cadmium oxide [1], silver tin oxide [2]						
Resistance	< 50 milliohms initially						
	(24V, 1A voltage drop method)						

COIL

Power					
At Pickup Voltage	DC: 506mW (30/40A), 844mW (50A)				
(typical)	AC: 1.4VA				
Max. Continuous	DC: 1.7W at 20°C				
Dissipation	AC: 2.7VA at 20°C				
Max. Temperature	Max. 130°C (266°F) Class B Max. 155°C (311°F) Class F				



GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 5 x 10 ⁴ at 40A 250VAC Res.			
Operate Time	15 msec max. at nominal coil voltage			
Release Time	10 msec max. at nominal coil voltage (without suppression)			
Dielectric Strength (at sea level for 1 min.)	1500Vrms contact to contact 2500Vrms contact to coil 4000Vrms contact to coil-Contact Factory			
Insulation Resistance	1000 megohms min. at 20°C, 500VDC 50% RH			
Dropout	DC: > 10% of nominal coil voltage AC: > 30% of nominal coil voltage			
Ambient Temperature Operating Storage	-55°C (-67°F) to 100°C (212°F) Class B -55°C (-67°F) to 130°C (266°F) Class B -55°C (-67°F) to 125°C (257°F) Class F -55°C (-67°F) to 155°C (311°F) Class F			
Vibration	0.06" DA at 10–55Hz			
Shock	20g			
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	30 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.

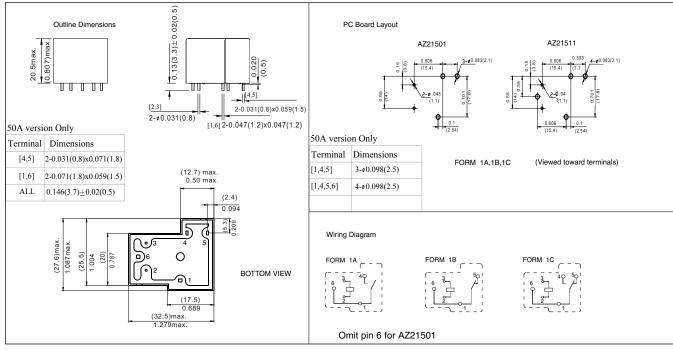
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RELAY ORDERING DATA

	COIL SPECIFICATIONS – DC Coil							
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA ± 10%	Coil Resistance ±10% (30/40A) (50A)		ORDER NUMBER*		
3	2.25	3.9	300	10	6	AZ21501–1A–3D		
5	3.75	6.5	179	28	16.7	AZ21501–1A–5D		
6	4.50	7.8	150	40	24	AZ21501-1A-6D		
9	6.75	11.7	100	90	54	AZ21501-1A-9D		
12	9.00	15.6	75	160	96	AZ21501-1A-12D		
15	10.25	19.5	60	250	150	AZ21501–1A–15D		
18	13.5	23.4	50	360	216	AZ21501-1A-18D		
24	18.0	31.2	38	640	384	AZ21501–1A–24D		
48	36.0	62.4	19	2,560	1536	AZ21501-1A-48D		
110	82.50	143	8	13,445	8067	AZ21501-1A-110D		
	COIL SPECIFICATIONS – AC Coil 50/60 Hz							
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Coil Power VA	Coil Resistance ±10% (30/40A only)		ORDER NUMBER*		
12	9	15.6	2.0	27		AZ21501–1A–12A		
24	18	31.2	2.0	120		AZ21501–1A–24A		
110	82.5	143	2.0	2,360		AZ21501–1A–110A		
120	90	156	2.0	3,040		AZ21501–1A–120A		
220	165	286	2.0	13,490		AZ21501–1A–220A		
240	180	312	2.0	15,740		AZ21501-1A-240A		
277	207.75	360.1	2.0	20,300		AZ21501–1A–277A		

*Substitute "-1B" or "-1C" in place of "-1A" for 1 Form B or 1 Form C respectively. For silver tin oxide contacts substitute "-1AE", or "1BE" or "-1CE" in place of "-1A" or "1B", or "1C". For 30A version - add "H" after "-1AE", "-1B", "-1BE", "-1C", "-1CE" or for 50A version - add "T" after "-1AE", "-1BE", or "-1CE." To indicate class F version - add suffix "F". Substitute "DE" or "AE" in place of "D" or "A" for epoxy sealed version. Use AZ21511 for Pin 6 style.



MECHANICAL DATA

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

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7/30/18

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.