AZ21001

50 AMP MINIATURE POWER RELAY

FEATURES

- Quick-connect leads for contacts
- 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
- TÜV Pending

CONTACTS

Arrangement	SPST (1 Form A, or B) SPDT (1 Form C)			
Ratings	Resistive load:			
	Max. switched power: 1200W or 7200VA Max. switched current: 50A (Form A) Max. switched voltage: 300VAC, 110VDC			
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: 35A at 240VAC Resistive [2] 30A at 240VAC / 30VDC Resistive 20A at 277VAC, General Purpose 1.5HP 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 (typical)	DC: 506mW (30/40A), 844mW (50A) AC: 1.4VA				
Max. Continuous Dissipation	DC: 1.7W at 20°C 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 1 x 10 ⁵ at 30A 120VAC Res. N.O.					
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 10–55 Hz					
Shock	20g					
Enclosure	P.B.T. polyester					
Terminals	Tinned copper alloy, P.C., Quick Connects Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.					
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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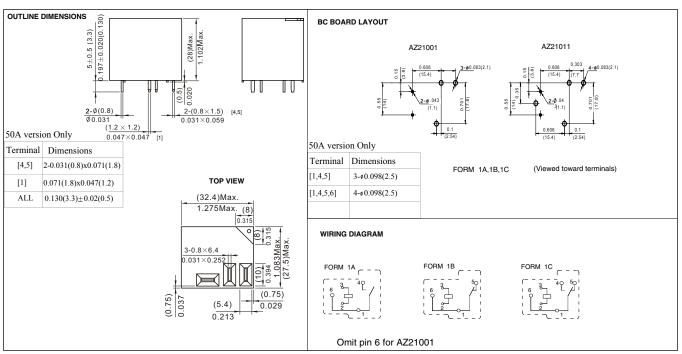
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RELAY ORDERING DATA

	COIL SPECIFIC	ATIONS – 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	AZ21001–1A–3D
5	3.75	6.5	179	28	16.7	AZ21001-1A-5D
6	4.50	7.8	150	40	24	AZ21001–1A–6D
9	6.75	11.7	100	90	54	AZ21001–1A–9D
12	9.00	15.6	75	160	96	AZ21001-1A-12D
15	10.25	19.5	60	250	150	AZ21001–1A–15D
18	13.5	23.4	50	360	216	AZ21001–1A–18D
24	18.0	31.2	38	640	384	AZ21001–1A–24D
48	36.0	62.4	19	2,560	1536	AZ21001-1A-48D
110	82.50	143	8	13,445	8067	AZ21001-1A-110D
	COIL SPECIFICATIO	NS – AC Coil 50/60 H	z			
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		AZ21001–1A–12A
24	18	31.2	2.0	120		AZ21001–1A–24A
110	82.5	143	2.0	2,360		AZ21001–1A–110A
120	90	156	2.0	3,040		AZ21001–1A–120A
220	165	286	2.0	13,490		AZ21001–1A–220A
240	180	312	2.0	15,740		AZ21001–1A–240A
277	207.75	360.1	2.0	20,300		AZ21001–1A–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", "-1BE" or "-1CE" in place of "-1A", "-1B" or "-1C." For 30A version- add "H" after "-1A,-1AE", "-1B,-1BE", or "-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.

MECHANICAL DATA



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



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Use AZ21011 for Pin 6 style.