

AZ21501

40 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
- TÜV Pending



CONTACTS

Arrangement	SPST (1 Form A, or B) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 1100 W or 7200 VA Max. switched current: 40 A (Form A) Max. switched voltage: 300 VAC, 110 VDC
UL, CUR	NO: 40 A at 240 VAC, Resistive 30 A at 277 VAC, General Purpose 25 A at 277 VAC, Resistive, 100k cycles 20 A at 240 VAC, Resistive, 250k cycles 2 HP at 250 VAC 5 A at 280 VAC, Ballast NC: 30A at 240 VAC / 30 VDC, Resistive 20A at 277 VAC, General Purpose 1 1/2 HP at 250 VAC 5 A at 280 VAC, Ballast
TUV	NO: 40A at 240 VAC, 14 VDC NC: 30A at 240 VAC, 14 VDC
Material	Silver cadmium oxide [1], silver tin oxide [2]
Resistance	< 50 milliohms initially (24 V, 1 A voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	DC: 500 mW AC: 1.4 VA
Max. Continuous Dissipation	DC: 1.7 W at 20°C AC: 2.7 VA 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 30 A 120 VAC 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.)	1500 Vrms contact to contact 2500 Vrms contact to coil
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC 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	0.062" 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	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.



AMERICAN ZETTLER, INC.

www.azettler.com

75 COLUMBIA • ALISO VIEJO, CA 92656 • PHONE: (949) 831-5000 • FAX: (949) 831-8642 • E-MAIL: SALES@AZETTLER.COM

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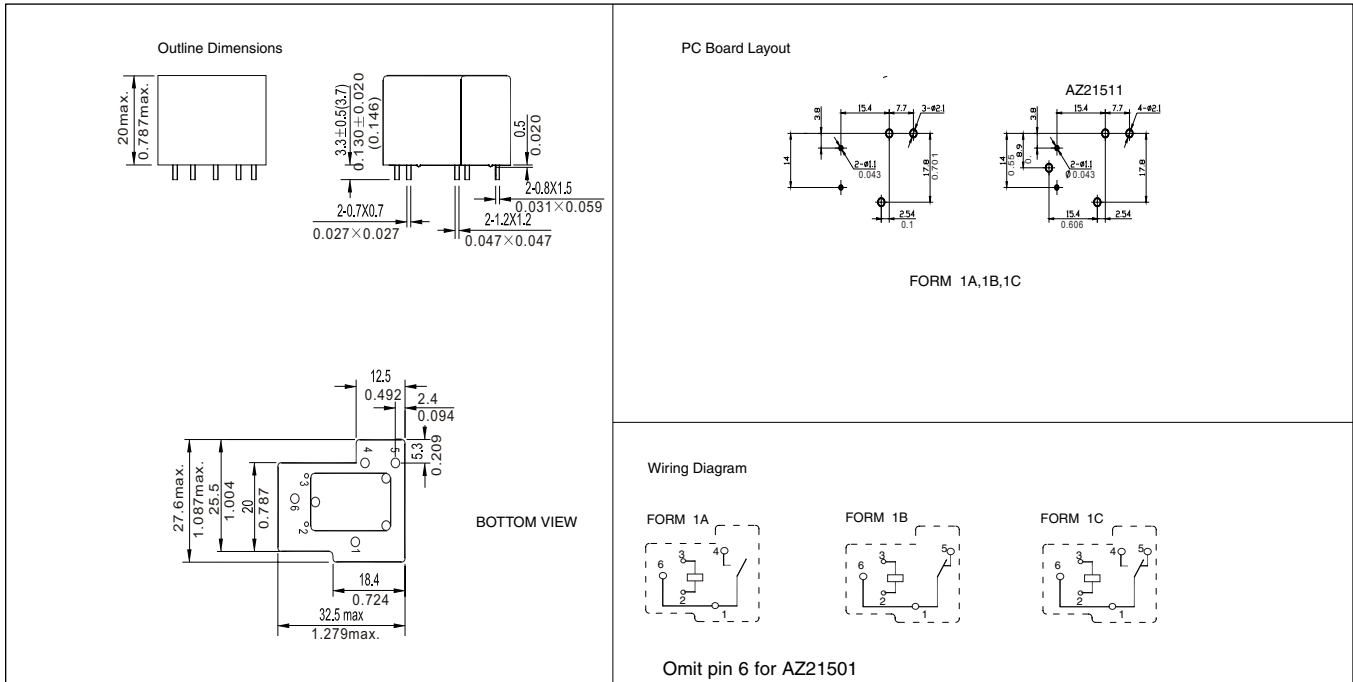
RELAY ORDERING DATA

COIL SPECIFICATIONS – DC Coil					ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA ± 10%	Coil Resistance ± 10%	
3	2.25	3.9	300	10	AZ21501-1A-3D
5	3.75	6.5	179	28	AZ21501-1A-5D
6	4.50	7.8	150	40	AZ21501-1A-6D
9	6.75	11.7	100	90	AZ21501-1A-9D
12	9.00	15.6	75	160	AZ21501-1A-12D
15	10.25	19.5	60	250	AZ21501-1A-15D
18	13.5	23.4	50	360	AZ21501-1A-18D
24	18.0	31.2	38	640	AZ21501-1A-24D
48	36.0	62.4	19	2,560	AZ21501-1A-48D
110	82.50	143	8	13,445	AZ21501-1A-110D

COIL SPECIFICATIONS – AC Coil 50/60 Hz					ORDER NUMBER*
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Coil Power VA	Coil Resistance ± 10%	
12	9	15.6	2.0	27	AZ21501-1A-12A
24	18	31.2	2.0	120	AZ21501-1A-24A
120	90	156	2.0	3,040	AZ21501-1A-120A
220	165	286	2.0	13,490	AZ21501-1A-220A

*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 "-1CE" in place of "-1A" or "-1C." For 30A version, add "H" after "-1A/-1AE", "-1B/-1BE", or "-1C/-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"