

# AZ21001

## 40 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

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

### COIL

<b>Power At Pickup Voltage (typical)</b>	DC: 500 mW AC: 1.4 VA
<b>Max. Continuous Dissipation</b>	DC: 1.7 W at 20°C AC: 2.7 VA at 20°C
<b>Max. Temperature</b>	Max. 130°C (266°F) Class B Max. 155°C (311°F) Class F

### GENERAL DATA

<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 30 A 120 VAC Res. N.O.
<b>Operate Time</b>	15 msec max. at nominal coil voltage
<b>Release Time</b>	10 msec max. at nominal coil voltage (without suppression)
<b>Dielectric Strength</b> (at sea level for 1 min.)	1500 Vrms contact to contact 2500 Vrms contact to coil
<b>Insulation Resistance</b>	1000 megohms min. at 20°C, 500 VDC 50% RH
<b>Dropout</b>	DC: > 10% of nominal coil voltage AC: > 30% of nominal coil voltage
<b>Ambient Temperature</b> <b>Operating</b> <b>Storage</b>	-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
<b>Vibration</b>	0.062" DA at 10–55 Hz
<b>Shock</b>	20 g
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy, P.C., Quick Connects Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.
<b>Max. Solder Temp.</b>	270°C (518°F)
<b>Max. Solder Time</b>	5 seconds
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	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](http://www.azettler.com)

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

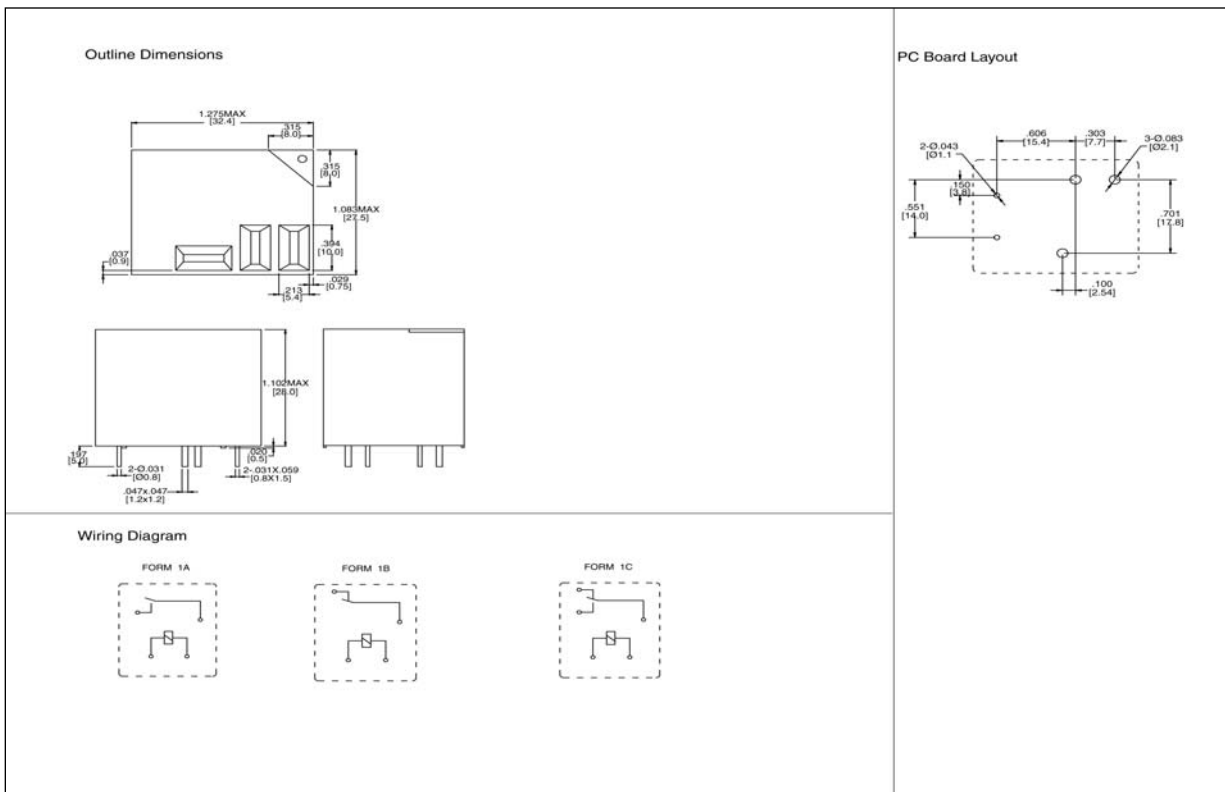
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## RELAY ORDERING DATA

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	AZ21001-1A-3D
5	3.75	6.5	179	28	AZ21001-1A-5D
6	4.50	7.8	150	40	AZ21001-1A-6D
9	6.75	11.7	100	90	AZ21001-1A-9D
12	9.00	15.6	75	160	AZ21001-1A-12D
15	10.25	19.5	60	250	AZ21001-1A-15D
18	13.5	23.4	50	360	AZ21001-1A-18D
24	18.0	31.2	38	640	AZ21001-1A-24D
48	36.0	62.4	19	2,560	AZ21001-1A-48D
110	82.50	143	8	13,445	AZ21001-1A-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	AZ21001-1A-12A
24	18	31.2	2.0	120	AZ21001-1A-24A
120	90	156	2.0	3,040	AZ21001-1A-120A
220	165	286	2.0	13,490	AZ21001-1A-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.

## MECHANICAL DATA



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



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