

# AZ22801

## 40 AMP MINIATURE POWER RELAY

### FEATURES

- Panel Mount
- 1 Form A, B and C contacts available
- AC and DC coils available
- Class F high temperature available
- Lower cost 30A contact 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: 1200W or 7200VA Max. switched current: 40A (Form A) Max. switched voltage: 300VAC, 110VDC
<b>UL, CUR</b>	NO: 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
<b>TÜV</b>	NC: 35A at 240VAC, Resistive [2] 30A at 240VAC / 30VDC, Resistive 20A at 277VAC, General Purpose 1.5HP at 250VAC 5A at 280VAC, Ballast
<b>Material</b>	Silver cadmium oxide [1], silver tin oxide [2]
<b>Resistance</b>	< 50 milliohms initially (24V, 1A voltage drop method)

### COIL

<b>Power At Pickup Voltage (typical)</b>	DC: 506mW (30/40A), 844mW (50A) AC: 1.4VA
<b>Max. Continuous Dissipation</b>	DC: 1.7W at 20°C AC: 2.7VA 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> Mechanical Electrical	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 30A 120 VAC Res.
<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.)	1500Vrms contact to contact 2500Vrms contact to coil 4000Vrms contact to coil-Contact Factory
<b>Insulation Resistance</b>	1000 megohms min. at 20°C, 500VDC 50% RH
<b>Dropout</b>	DC: > 10% of nominal coil voltage AC: > 30% of nominal coil voltage
<b>Ambient Temperature Operating Storage</b>	-55°C (-67°F) to 100°C (212°F) Class B -55°C (-67°F) to 125°C (257°F) Class B -55°C (-67°F) to 130°C (266°F) Class F -55°C (-67°F) to 155°C (311°F) Class F
<b>Vibration</b>	0.06" DA at 10-55Hz
<b>Shock</b>	20g
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy, P.C.,
<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>	35 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.**

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## RELAY ORDERING DATA

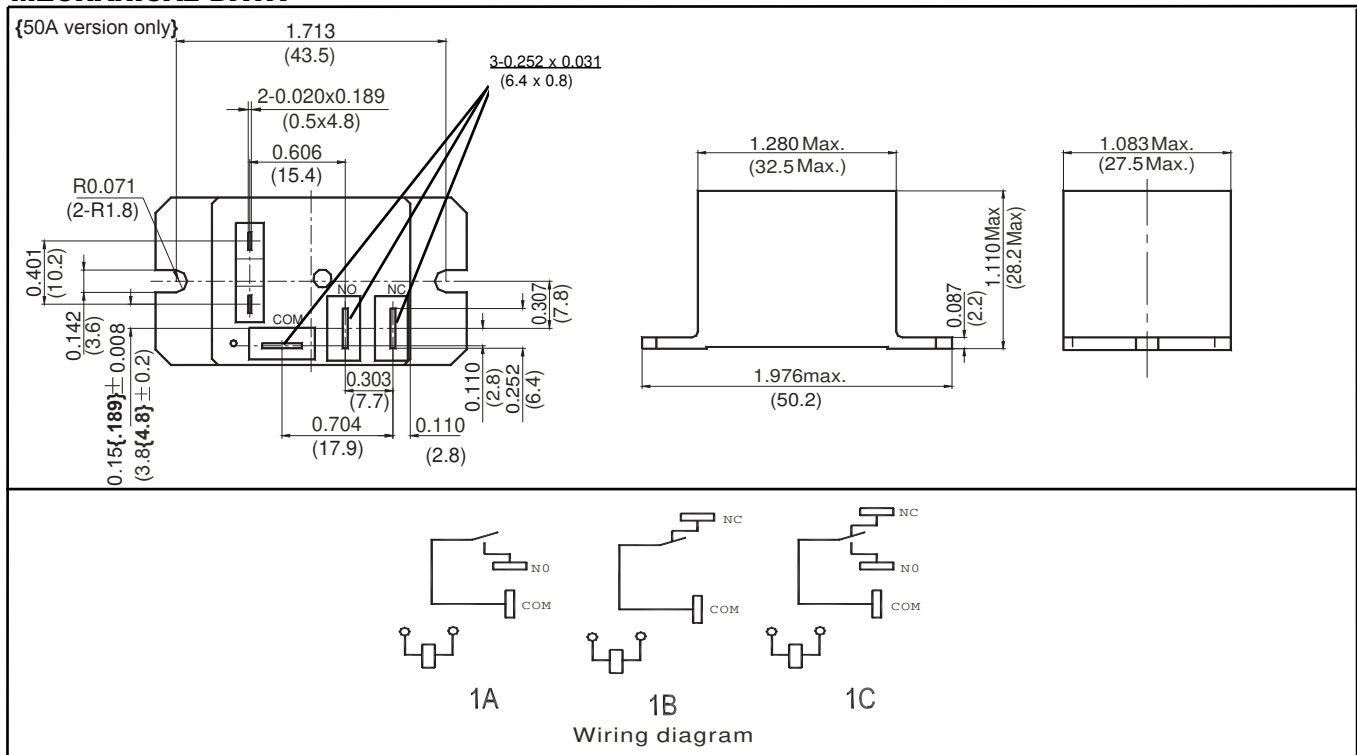
COIL SPECIFICATIONS – DC Coil					ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA ± 10%	Coil Resistance ± 10%	
3	2.25	3.9	300	10	AZ22801-1A-3DE
5	3.75	6.5	179	28	AZ22801-1A-5DE
6	4.50	7.8	150	40	AZ22801-1A-6DE
9	6.75	11.7	100	90	AZ22801-1A-9DE
12	9.00	15.6	75	160	AZ22801-1A-12DE
15	10.25	19.5	60	250	AZ22801-1A-15DE
18	13.5	23.4	50	360	AZ22801-1A-18DE
24	18.0	31.2	38	640	AZ22801-1A-24DE
48	36.0	62.4	19	2,560	AZ22801-1A-48DE
110	82.50	143	8	13,445	AZ22801-1A-110DE

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	AZ22801-1A-12AE
24	18	31.2	2.0	120	AZ22801-1A-24AE
110	82.5	143	2.0	2,360	AZ22801-1A-110AE
120	90	156	2.0	3,040	AZ22801-1A-120AE
220	165	286	2.0	13,490	AZ22801-1A-220AE
240	180	312	2.0	15,740	AZ22801-1A-240AE
277	207.75	360.1	2.0	20,300	AZ22801-1A-277AE

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" or "-1B" or "-1C." For 30A version, add "H" after "-1A", "-1AE", "-1B", "-1BE", or "-1C", "-1CE.", To indicate class F version, add suffix "F".

## MECHANICAL DATA



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

# AMERICAN ZETTLER, INC.

3/18/19

PHONE: (949) 831-5000

[www.azettler.com](http://www.azettler.com)

E-MAIL: SALES@AZETTLER.COM

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.