

# AZ2800

## 30 AMP MINIATURE POWER RELAY

### FEATURES

- DPST-NO and DPDT configuration
- Meets 8 mm creepage, 4 kV dielectric
- Epoxy sealed versions available
- UL Class F (155°C) standard
- UL, CUR file E44211
- VDE certificate 40023442



### CONTACTS

<b>Arrangement</b>	DPST (2 Form A) DPDT (2 Form C)
<b>Ratings</b>	Resistive load: Max. switched power: 560 W or 8310 VA Max. switched current: 30 A (N.O.), 3 A (N.C.) Max. switched voltage: 30 VDC* or 600 VAC  *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.
<b>Rated Load UL</b>	Normally open contacts (N.O.) 30 A at 277 VAC General Use, 100k cycles [1][2] 10 A at 600 VAC, General Use, 6k cycles [1] 1 HP at 120 VAC, 100k cycles [1][2] 2.5 HP at 240 VAC, 100k cycles [1][2] 8 FLA / 26 LRA at 600 VAC, 30k cycles [1]  Normally open contacts (N.O.), DC Coils only 25.3 FLA / 110 LRA at 240 VAC, 30k cycles [1][2]  Normally closed contacts (N.C.) 3 A at 277 VAC, General Use, 100k cycles [1][2] 2 A at 480 VAC, General Use, 6k cycles [1] 1 A at 600 VAC, General Use, 6k cycles [1] 3 FLA / 3 LRA at 240 VAC, 30k cycles [1] 2 FLA / 2 LRA at 480 VAC, 30k cycles [1] 1 FLA / 1 LRA at 600 VAC, 30k cycles [1]
<b>VDE</b>	Normally open contacts (N.O.) 20 A at 250 VAC, Resistive, 50k cycles [2]  Normally closed contacts (N.C.) 3 A at 250 VAC, Resistive, 50k cycles [2]
<b>Material</b>	Silver cadmium [1], silver tin oxide [2]
<b>Resistance</b>	<50 milliohms initially (6 V, 1 A voltage drop method)

### COIL

<b>Power</b>	925 mW, DC coil 2.6 VA, AC coil
<b>At Pickup Voltage (typical)</b>	
<b>Max. Continuous Dissipation</b>	5.0 W at 20°C (68°F) ambient, DC coil 7.0 VA at 20°C (68°F) ambient, AC coil
<b>Temperature Rise</b>	48°C (86°F) at nominal coil voltage, DC coil 68°C (122°F) at nominal coil voltage, AC coil
<b>Temperature</b>	Max. 155°C (311°F)

### GENERAL DATA

<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	Minimum operations 5 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 30 A 277 VAC Res. (N.O.)
<b>Operate Time</b>	15 ms typical 25 ms maximum with bounce
<b>Release Time</b>	10 ms typical 25 ms maximum with bounce (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	1500 Vrms contact to contact 4000 Vrms contact to coil 2000 Vrms between contact sets
<b>Insulation Resistance</b>	10 <sup>9</sup> ohms minimum at 500 VDC
<b>Dropout</b>	DC: Greater than 10% of nominal coil voltage AC: Greater than 20% of nominal coil voltage
<b>Ambient Temperature</b> <b>Operating</b>  <b>Storage</b>	At nominal coil voltage DC: -40°C (-40°F) to 85°C (185°F) AC: -40°C (-40°F) to 65°C (149°F) -40°C (-40°F) to 105°C (221°F)
<b>Vibration</b>	0.062" (1.5 mm) DA at 10–55 Hz
<b>Shock</b>	Operational, 10 g for 11 ms 1/2 sine pulse (no contact opening > 100usec) Non-destructive, 100 g for 11 ms 1/2 sine pulse
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Quick connect tabs Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	86 grams
<b>Packing unit in pcs</b>	20 per plastic tray / 100 per carton box

### 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.

**ZETTLER Controls, Inc.** [www.zettlercontrols.com](http://www.zettlercontrols.com)

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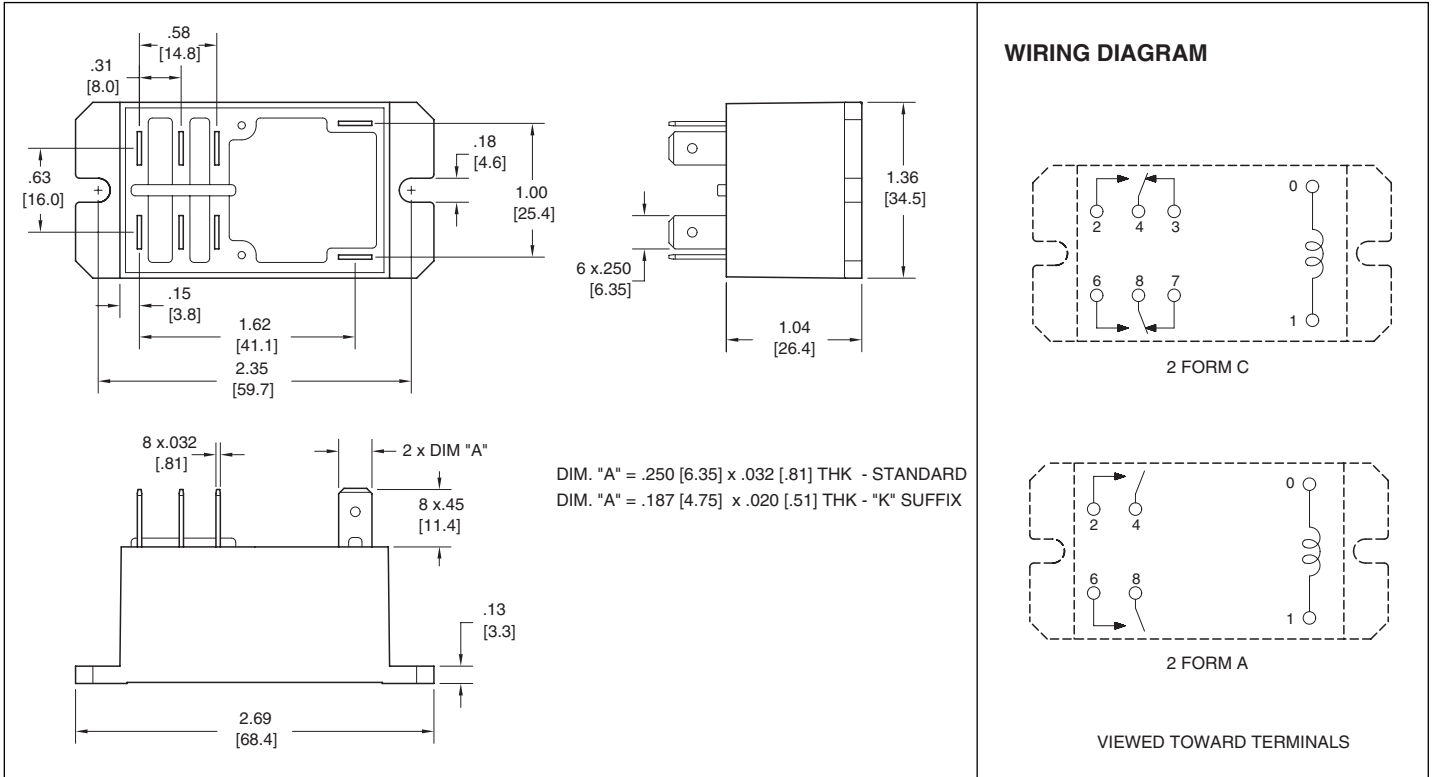
## RELAY ORDERING DATA

COIL SPECIFICATIONS – DC Coil					ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA ± 10%	Coil Resistance Ohm ± 10%	
6	4.5	10.5	272.0	22	AZ2800-2C-6D
12	9.0	20.7	140.0	86	AZ2800-2C-12D
24	18.0	41.8	68.5	350	AZ2800-2C-24D
48	36.0	83.4	34.5	1390	AZ2800-2C-48D
110	82.5	190.5	15.2	7255	AZ2800-2C-110D

COIL SPECIFICATIONS – AC Coil						ORDER NUMBER*
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Current mA ± 10%	50Hz Coil Resistance Ohm ± 10%	60Hz Coil Resistance Ohm ± 10%	
12	9.6	15.6	340.0	9.5	8	AZ2800-2C-12A
24	19.2	31.2	166.0	45	35.7	AZ2800-2C-24A
120	96.0	156.0	33.3	1125	830	AZ2800-2C-120A
220	176.0	286.0	18.2	3800	2870	AZ2800-2C-220A
240	192.0	312.0	16.7	4500	3800	AZ2800-2C-240A
277	221.6	360.1	14.4	5960	4700	AZ2800-2C-277A

\* Substitute "2A" in place of "2C" to indicate 2 Form A contacts.  
 "2A" or "2C" denotes silver cadmium contacts.  
 Add suffix "E" to "2A" or "2C" for silver tin oxide contacts.  
 Add suffix "5" for 50Hz coil, AC coils only (Example: AZ2800-2C-24A5).  
 Add suffix "E" at the end of order number for sealed version.  
 Add suffix "K" for 0.187" x 0.020" [4.8 mm x 0.5 mm] coil terminals.

## MECHANICAL DATA



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