

# AZ2800

## 30 AMP MINIATURE POWER RELAY

### FEATURES

- 30 Amp switching capability
- DPST-NO and DPDT configuration
- Meets 8 mm creepage, 4 kV dielectric
- Meets Class F construction
- Epoxy sealed versions available
- UL, CUR file E44211, VDE 40023442



### CONTACTS

<b>Arrangement</b>	DPST-N.O. DPDT
<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: 600 VAC or 30 VDC*
<b>UL, CUR N.O.</b>	30 A at 277 VAC General Use, 100k cycles 1 Hp at 120 VAC, 100k cycles 2.5 Hp at 240 VAC, 100k cycles 110 LRA/25.3 FLA at 240 VAC (DC coils only), 30k cycles
<b>UL, CUR N.C. VDE</b>	3 A at 277 VAC General Use, 100k cycles N.O. 20A 250VAC, N.C. 3A 250VAC  *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.
<b>Material</b>	Silver cadmium oxide, silver tin oxide
<b>Resistance</b>	<50 milliohms initially (6 V, 1 A voltage drop method)

### COIL

<b>Power At Pickup Voltage (typical)</b>	DC: 0.925 W AC: 2.6 VA
<b>Max. Continuous Dissipation</b>	DC: 5.0 W at 20°C (68°F) AC: 7.0 VA at 20°C (68°F)
<b>Temperature Rise</b>	DC: 48°C (86°F) at nominal coil voltage AC: 68°C (122°F) at nominal coil voltage
<b>Temperature</b>	Max. 155°C (311°F)

### 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.

### GENERAL DATA

<b>Life Expectancy Mechanical Electrical</b>	Minimum operations 5 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 30 A 120 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 Operating  Storage</b>	At nominal coil voltage DC: -40°C (-40°F) to 95°C (203°F) AC: -40°C (-40°F) to 75°C (167°F) -40°C (-40°F) to 155°C (311°F)
<b>Vibration</b>	0.062" 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



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3/3/08W

# AZ2800

## RELAY ORDERING DATA

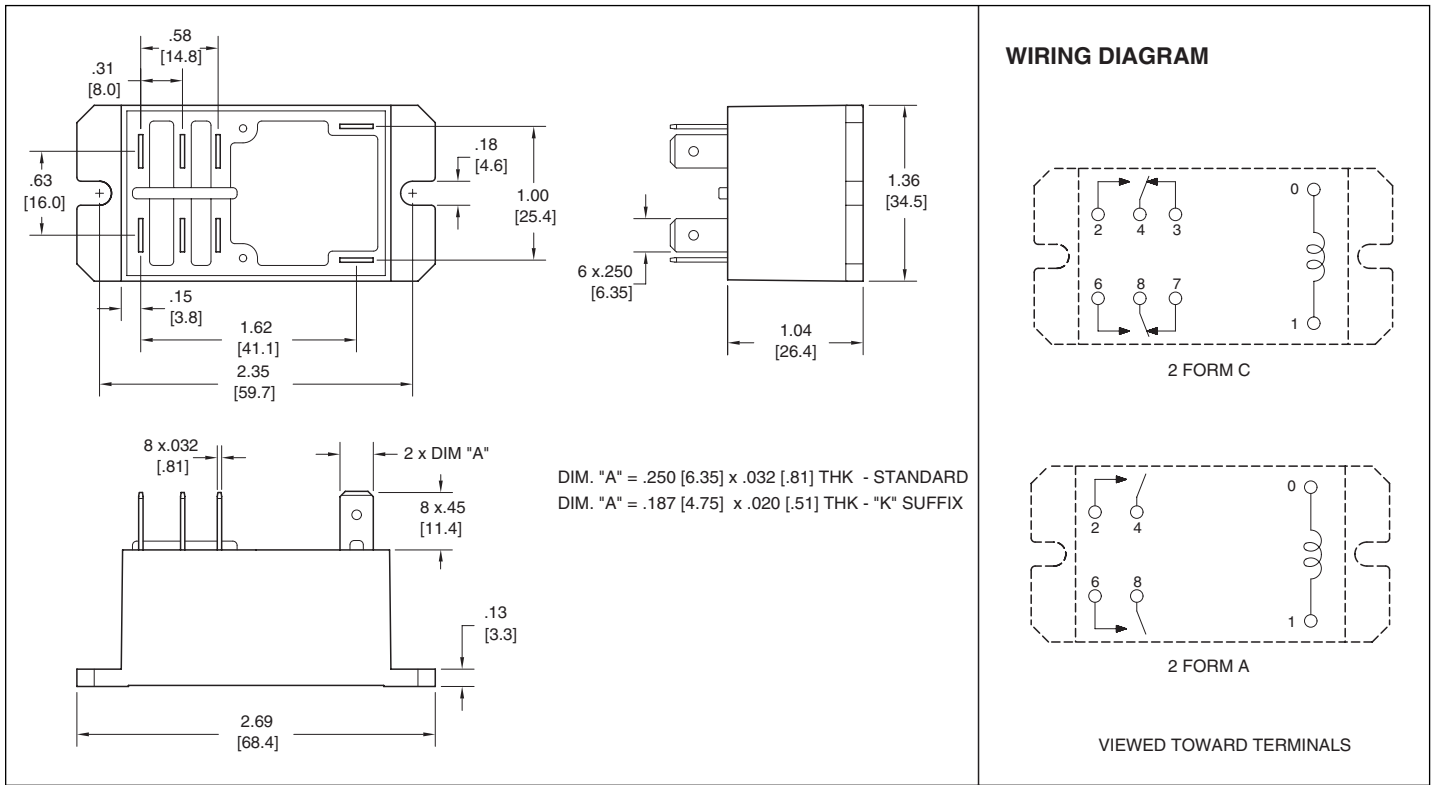
COIL SPECIFICATIONS – DC Coil				ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	
6	4.5	10.5	22	AZ2800-2C-6D
12	9.0	20.7	86	AZ2800-2C-12D
24	18.0	41.8	350	AZ2800-2C-24D
48	36.0	83.4	1390	AZ2800-2C-48D
110	82.5	190.5	7255	AZ2800-2C-110D

COIL SPECIFICATIONS – AC Coil 60 Hz [1]					ORDER NUMBER*
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Current mA $\pm 10\%$	Coil Resistance $\pm 10\%$	
12	9.6	15.6	325	9.5	AZ2800-2C-12A
24	19.2	31.2	154	35.7	AZ2800-2C-24A
120	96.0	156.0	33.5	830	AZ2800-2C-120A
208	166.4	270.4	19.3	2600	AZ2800-2C-208A
220	176.0	286	18.1	2870	AZ2800-2C-220A
240	192.0	312.0	17.3	3800	AZ2800-2C-240A
277	221.6	360.1	14.5	4700	AZ2800-2C-277A

\*Add suffix "E" for epoxy sealed version. Add suffix "K" for 0.187x.020 or "J" for 0.187x.032 QC coil terminals. Substitute '2A' for '2C' to indicate DPST (N.O.) contacts. Add suffix "E" to "2A" or "2C" to indicate AgSNO<sub>2</sub> contacts.

[1] For 50 Hz coil replace "A" with "A5" (example: "AZ2800-2C-24A5").

## MECHANICAL DATA



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