

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

Arrangement	DPST (2 Form A) DPDT (2 Form C)
Ratings	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.
Rated Load UL	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 277, 480, 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 277, 480 VAC, 30k cycles [1] 1 FLA / 1 LRA at 600 VAC, 30k cycles [1]
VDE	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]
Material	Silver cadmium [1], silver tin oxide [2]
Resistance	<50 milliohms initially (6 V, 1 A voltage drop method)

COIL

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



GENERAL DATA

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



AMERICAN ZETTLER, INC.

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AZ2800

RELAY ORDERING DATA

COIL SPECIFICATIONS – DC Coil					ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA $\pm 10\%$	Coil Resistance Ohm $\pm 10\%$	
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 $\pm 10\%$	50Hz Coil Resistance Ohm $\pm 10\%$	60Hz Coil Resistance Ohm $\pm 10\%$	
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.

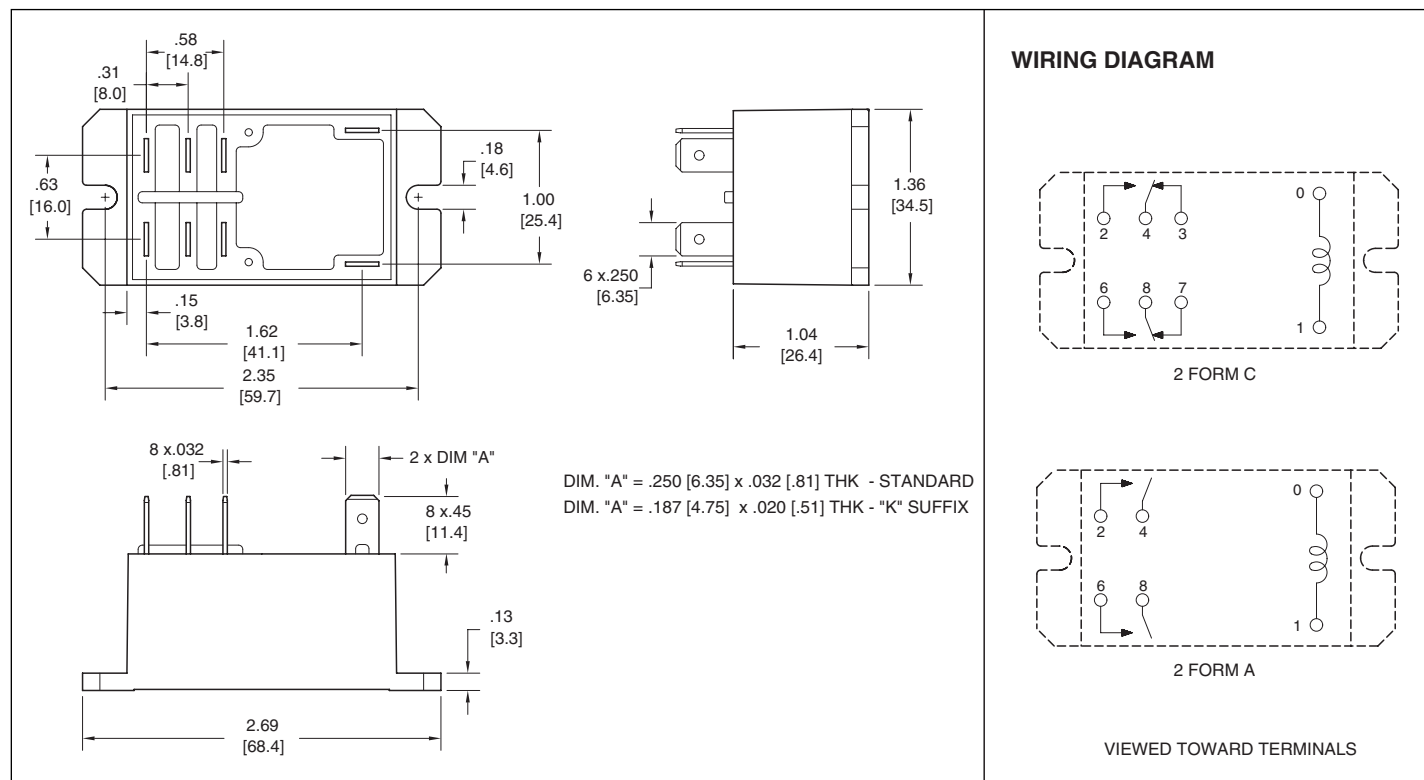
Add suffix "E" to "2A" or "2C" for silver tin oxide contacts.

Add suffix "5" for 50 Hz 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: $\pm .010$ "



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