

AZ2850

30 AMP MINIATURE POWER RELAY

FEATURES

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



CONTACTS

Arrangement	DPST-N.O. DPDT
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: 600 VAC or 30 VDC*
UL, CUR N.O.	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
UL, CUR N.C.	3 A at 277 VAC General Use, 100k cycles
VDE (pending)	35 A at 400 VC, 100k cycles, N.O. 3 A at 400 VAC, 100k cycles, N.C. *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.
Material	Silver cadmium oxide, silver tin oxide
Resistance	<50 milliohms initially (6 V, 1 A voltage drop method)

COIL

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

Life Expectancy Mechanical Electrical	Minimum operations 5 x 10 ⁷ 1 x 10 ⁵ at 30 A 120 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 155°C (311°F)
Vibration	0.062" 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	Tinned copper alloy, P.C.
Max. Solder Temp.	270°C (518°F)
Max. Solder Time	5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight	86 grams



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AZ2850

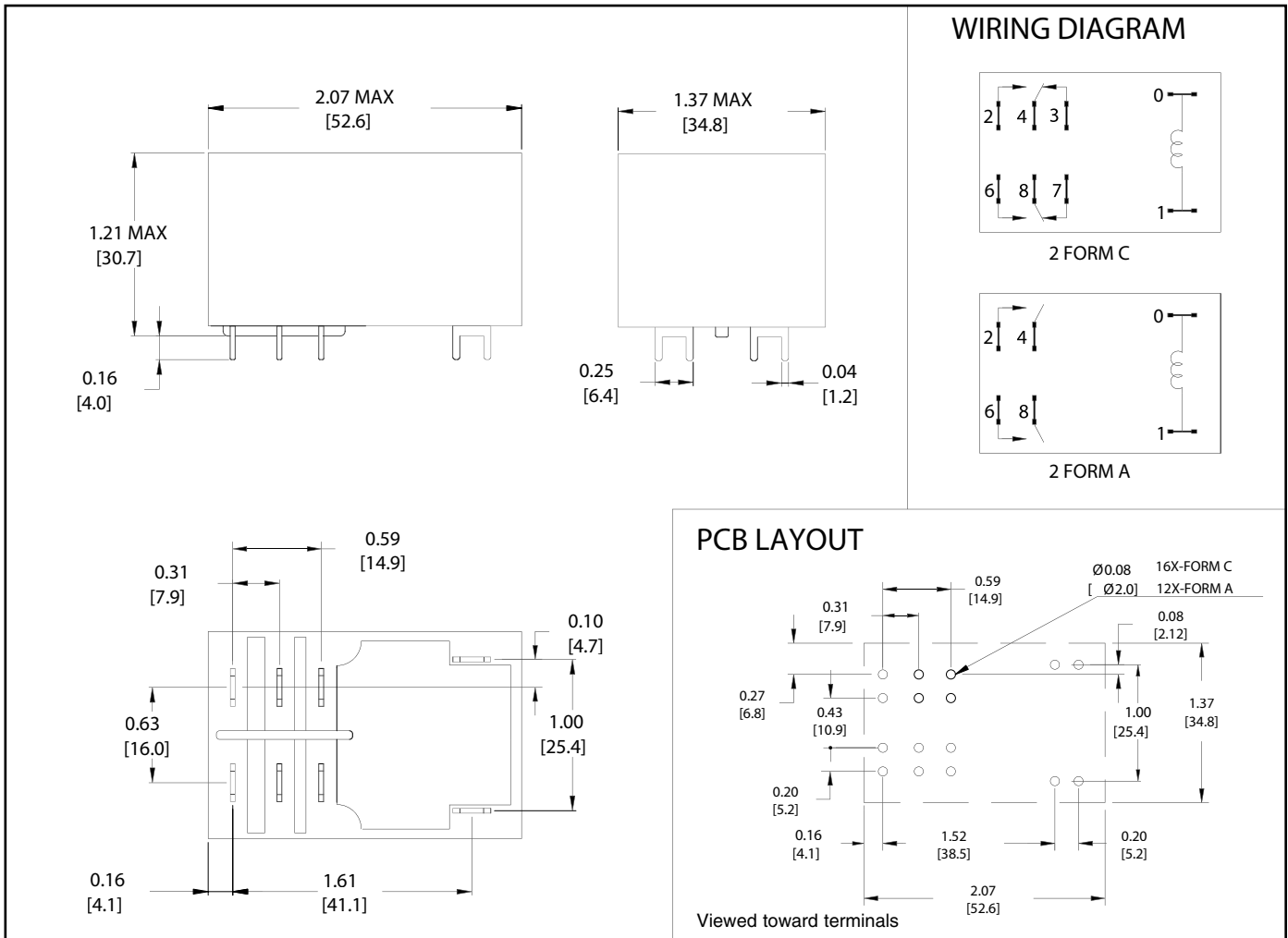
RELAY ORDERING DATA

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	AZ2850-2C-6D
12	9.0	20.7	86	AZ2850-2C-12D
24	18.0	41.8	350	AZ2850-2C-24D
48	36.0	83.4	1390	AZ2850-2C-48D
110	82.5	190.5	7255	AZ2850-2C-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	340.0	9.1	AZ2850-2C-12A
24	19.2	31.2	166.0	39	AZ2850-2C-24A
120	96.0	156.0	33.3	950	AZ2850-2C-120A
208	166.4	270.4	19.2	2841	AZ2850-2C-208A
240	192.0	312.0	16.7	3800	AZ2850-2C-240A
277	221.6	360.1	14.4	5485	AZ2850-2C-277A

*Add suffix "E" for epoxy sealed version. Substitute "2A" for "2C" to indicate DPST (N.O.) contacts. Add suffix "E" to "2A" or "2C" to indicate AgSNO₂ contacts [1] For 50 Hz coil replace "A" with "A5" (example: "A2280-2C-24A5").

MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010$ "



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