# 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 40023442

#### 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.	
UL, CUR N.C.	3 A at 277 VAC General Use, 100k cycles
VDE	N.O. 30A 250 VAC, N.C. 3A 250 VAC
	*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 <sup>7</sup> 1 x 10 <sup>5</sup> 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	109 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 95°C (203°F) AC: -40°C (-40°F) to 75°C (167°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 <sup>1</sup> / <sub>2</sub> sine pulse (no contact opening > 100usec) Non-destructive, 100 g for 11 ms <sup>1</sup> / <sub>2</sub> 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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www.azettler.com

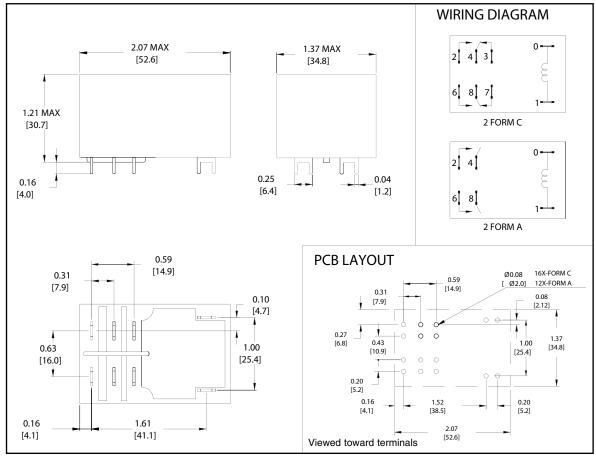
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#### **RELAY ORDERING DATA**

COIL SPECIFICATIONS – DC Coil									
Nominal Coil VDC	Must Operate VDC	Max. Continu VDC	uous Coil Resi ± 10				R NUMBER*		
6	4.5	10.5		22		AZ28	50–2C–6D		
12	9.0	20.7		86		AZ2850-2C-12D			
24	18.0	41.8	41.8 350			AZ2850-2C-24D			
48	36.0	83.4		1390		AZ28	AZ2850-2C-48D		
110	82.5	190.5		7255		AZ28	AZ2850-2C-110D		
COIL SPECIFICATIONS – AC Coil 60 Hz [1]									
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC				esistance ORDER NU 10%		JMBER*	
12	9.6	15.6	325		9	.5	AZ2850-2C-12A		
24	19.2	31.2	154		154 3		AZ2850-2	AZ2850-2C-24A	
120	96.0	156.0	33.5		33.5 830		) AZ2850–20		
208	166.4	270.4	19.3		19.3 2600		0 AZ2850–2C		
220	176.0	286	18.1		18.1 2870		AZ2850-2C-220A		
240	192.0	312.0	17.3		3800	AZ2850-2C-240A		C-240A	
277	221.6	360.1		14.5	4700		AZ2850-2	C–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 AgSNO<sub>2</sub> 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: ± .010"

