AZ2850

40 AMP MINIATURE POWER RELAY

FEATURES

- DPST-NO and DPDT configuration
- Meets 8mm creepage, 4kV dielectric

DPST (2 Form A)

DPDT (2 Form C) Resistive load:

Max. switched power: 560W or 8310VA Max. switched current: 40A (N.O.), 3A (N.C.) Max. switched voltage: 30VDC* or 600VAC * Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.

40A at 277VAC, Resistive, 30k cycles [1][2] 30A at 277VAC, General Use, 100k cycles [1][2] 10A at 600VAC, General Use, 6k cycles [1]

8FLA / 26LRA at 277/480/600VAC, 30k cycles[1] Normally open contacts (N.O.), DC coils only 25.3FLA / 110LRA at 240VAC, 30kcycles [1][2]

3A at 277VAC, General Use, 100k cycles [1][2] 2A at 480VAC, General Use, 6k cycles [1] 1A at 600VAC, General Use, 6k cycles [1] 3FLA / 3LRA at 240VAC, 30k cycles [1] 2FLA / 2LRA at 277/480VAC, 30k cycles [1] 1FLA / 1LRA at 600VAC, 30k cycles [1]

Normally open contacts (N.O.)

1HP at 120VAC, 100k cycles [1][2] 2.5HP at 240VAC, 100k cycles [1][2]

Normally closed contacts (N.C.)

Normally open contacts (N.O.)

Normally closed contacts (N.C.) 3A at 250VAC, Resistive, 50k cycles [2] Silver cadmium [1], silver tin oxide [2],

> 925mW, DC coil 2.6VA, AC coil

5W at 20°C (68°F) ambient, DC coil

7VA at 20°C (68°F) ambient, AC coil

48°C (86°F) at nominal coil voltage, DC coil

< 50 milliohms initially (24V, 1A, voltage drop method)

30A at 250VAC, Resistive, 50k cycles [2]

- Epoxy selead version available
- UL Class F (155°C) standard
- UL, CUR file E44211
- VDE certificate 40023442

CONTACTS Arrangement

Ratings

Rated Load

UL

VDE

Material Resistance

COIL Power

At Pickup Voltage

Max. Continuous

Temperature Rise

(typical)

Dissipation



GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 5×10^{6} 1×10^{5} at 30A, 277VAC Res. (N.O.)				
Operate Time	15ms typical 25ms maximum with bounce				
Release Time	10ms typical 25ms maximum with bounce (with no coil suppression)				
Dielectric Strength (at sea level for 1 min.)	1500Vrms contact to contact 4000Vrms contact to coil 2000Vrms 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	At nominal coil voltage DC: -40°C (-40°F) to 85°C (185°F) AC: -40°C (-40°F) to 65°C (149°F)				
Storage	-40°C (-40°F) to 105°C (221°F)				
Vibration	0.062" (1.65mm) DA at 10–55Hz				
Shock	Operational, 10g for $11 \text{ms} \frac{1}{2}$ sine pulse (no contact opening > 100usec) Non-destructive, 100g for $11 \text{ms} \frac{1}{2}$ 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				
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.



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AZ2850

RELAY ORDERING DATA

COIL SPECIFICA					
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC Nominal Current mA ± 10% Coil Resistance Ohm ± 10%		ORDER NUMBER*	
5	3.8	8.0	326.7	15.3	AZ2850–2C–5D
6	4.5	10.5	272.0	22	AZ2850–2C–6D
12	9.0	20.7	140.0	86	AZ2850–2C–12D
24	18.0	41.8	68.5	350	AZ2850–2C–24D
48	36.0	83.4	34.5	1,390	AZ2850–2C–48D
110	82.5	190.5	15.2	7,255	AZ2850-2C-110D

COIL SPECIFICATIONS - AC Coil

Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Current mA ± 10%	50Hz Coil Resistance Ohm ± 10%	60Hz Coil Resistance Ohm ± 10%	ORDER NUMBER*
12	9.6	15.6	340.0	9.5	8	AZ2850–2C–12A
24	19.2	31.2	166.0	45	35.7	AZ2850-2C-24A
120	96.0	156.0	33.3	1125	830	AZ2850-2C-120A
220	176.0	286.0	18.2	3800	2870	AZ2850-2C-220A
240	192.0	312.0	16.7	4500	3800	AZ2850-2C-240A
277	221.6	360.1	14.4	5960	4700	AZ2850-2C-277A

Subsitute "2A" in place of "2C" to indicate 2 Form A contacts.

"2A" or "2C" denote silver cadmium contacts.

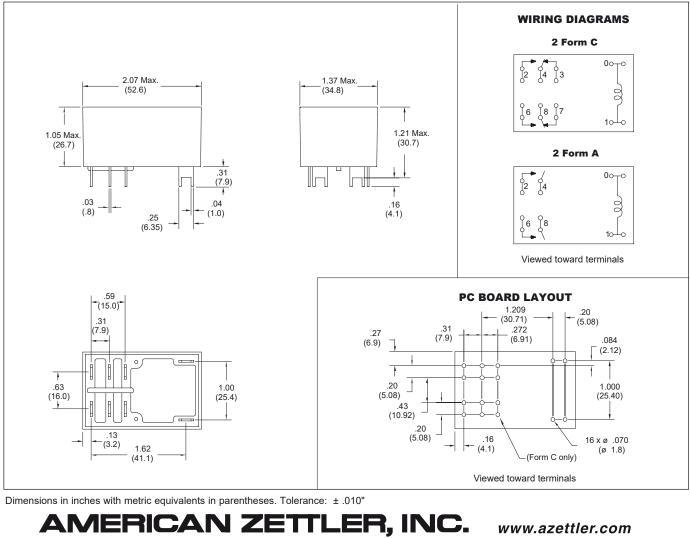
Add suffix "E" to "2A" or "2C" for silver tin oxide contacts.

Add suffix "5" for 50Hz coil, AC coils only (Example: AZ2850-2C-24A5).

Add suffix "6" for 50/60Hz coil, AC coils only (Example: AZ2850-2C-24A6).

Add suffix "E" at the end of order number for sealed version.

MECHANICAL DATA



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