

AZ2280

30 AMP MINIATURE POWER RELAY

FEATURES

- Quick-connect leads for contacts and coil
- 1 Form A, B and C contacts available
- Epoxy sealed versions available
- UL Class F (155°C) standard
- UL, CUR file E44211
- VDE certificate 40027037



CONTACTS

Arrangement	SPST (1 Form A) SPST (1 Form B) SPDT (1 Form C)
Ratings	Resistive load:
1 Form A	Max. switched power: 840 W or 8310 VA Max. switched current: 30 A Max. switched voltage: 28 VDC or 277 VAC
1 Form B	Max. switched power: 280 W or 4155VA Max. switched current: 15 A Max. switched voltage: 28 VDC or 277 VAC
1 Form C	Max. switched power: 560 W or 8310 VA (N.O.) 280 W or 5540 VA (N.C.) Max. switched current: 30 A (N.O.) 20 A (N.C.) Max. switched voltage: 28 VDC or 277 VAC
Material	Silver tin oxide
Resistance	< 50 milliohm initially (24 V, 1A voltage drop method)

COIL

Power At Pickup Voltage (typical)	500 mW, DC coil
Max. Continuous Dissipation	1.7 W at 20°C (68°F) ambient, DC coil
Temperature Rise	38°C (68°F) at nominal coil voltage
Max. Temperature	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. 18 VDC coil is not VDE approved.
4. Specification subject to change without notice.

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 30 A 120 VAC Res. N.O.
Operate Time	15 ms max. at nominal coil voltage
Release Time	10 ms max. at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	2500 Vrms coil to contact 1500 Vrms between open contacts
Insulation Resistance	1000 megaohms min. at 20°C, 500 VDC 50% RH
Dropout	DC: > 10% of nominal coil voltage
Ambient Temperature Operating	-40°C (-40°F) to 85°C (185°F), DC coils
Vibration	1.5 mm DA at 10-55 Hz
Shock	10 g
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, Quick Connects Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.
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	36 grams
Packing unit in pcs	40 per plastic tray / 240 per carton

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This product specification to be used only together with the application notes
which can be downloaded from <http://www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf>

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AZ2280

CONTACTS

Rated load UL	<p>1 Form A 30 A at 277 VAC, General Use, 6k cycles 2 HP at 250 VAC 1 HP at 125 VAC</p> <p>1 Form C, (N.O.) 30 A at 277 VAC, General Use, 6k cycles 2 HP at 250 VAC 1 HP at 125 VAC</p> <p>1 Form C, (N.C.) 20 A at 277 VAC, General Use, 6k cycles 0.5 HP at 250 VAC 0.25 HP at 125 VAC</p>
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Rated load VDE	<p>1 Form A, DC coils only 15 A at 250 VAC, cos phi = 0.4, 100k cycles</p> <p>1 Form C, (N.O.), DC coils only 20 A at 250 VAC, resistive, 100k cycles</p> <p>1 Form C, (N.C.), DC coils only 10 A at 250 VAC, resistive, 100k cycles</p> <p>Note: 18 VDC coil is not VDE approved.</p>
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RELAY ORDERING DATA

COIL SPECIFICATIONS – DC Coil					ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA ± 10%	Coil Resistance Ohm ± 10%	
5	3.75	6.4	185	27	AZ2280-1AET-5DF
6	4.5	7.8	150	40	AZ2280-1AET-6DF
9	6.75	12.2	93	97	AZ2280-1AET-9DF
12	9.0	15.4	77	155	AZ2280-1AET-12DF
15	11.25	19.8	59	256	AZ2280-1AET-15DF
18	13.5	24.1	47	380	AZ2280-1AET-18DF
24	18.0	32.0	36	660	AZ2280-1AET-24DF
48	36.0	62.6	19	2,560	AZ2280-1AET-48DF

*"1AET" denote silver tin oxide contacts.
 Substitute "1BET" in place of "1AET" for 1 Form B relay.
 Substitute "1CET" in place of "1AET" for 1 Form C relay.
 Substitute "DEF" for epoxy sealed version.
 Add suffix "K" at the end of order number for 0.11 x 0.02 [2.8 x 0.5] coil terminals.

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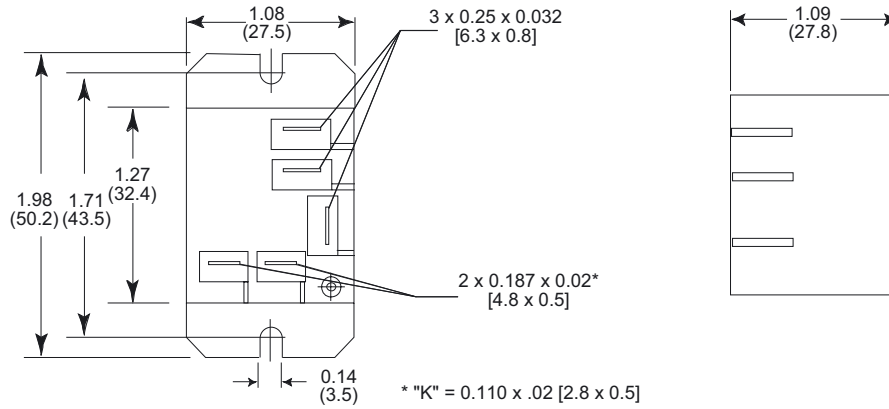
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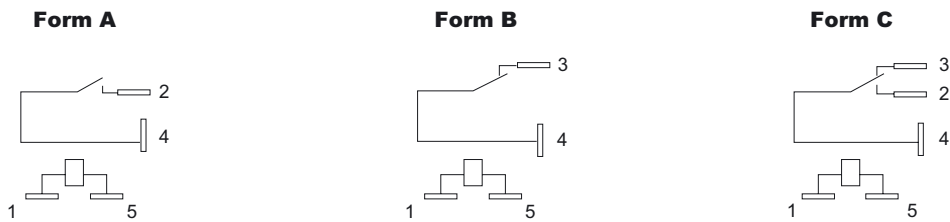
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MECHANICAL DATA



WIRING DIAGRAMS (Top View)



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

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