AZ2280

30 AMP MINIATURE POWER RELAY

FEATURES

- Quick-connect leads for contacts and coil
- 1 Form A, B and C contacts available
- AC and DC coils available
- Available with epoxy seal
- UL and Canadian file E44211

CONTACTS

Arrangement	SPST (1 Form A, or B) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 900 W or 7200 VA Max. switched current: 30 A (Form A N.O.) 15 A (Form B N.O.) 20 A (Form C N.O.) 15 A (Form C N.O. Max. switched voltage: 277 VAC, 30 VDC
UL, CUR	30/15 A @ 240 VAC, gen use (NO/NC, Form A or B) 20/10 A @ 240 VAC, gen use (NO/NC, Form C) 20/10 A @ 28 VDC, res (NO/NC, Form A or B) 1.0/.25 Hp @ 120 VAC, (NO/NC, Form A or B) 2.0/.50 Hp @ 240 VAC, (NO/NC, Form A, B or C) 5/3 A @ 240 VAC, tungsten (NO/NC, Form A, B or C) 6/3 A @ 277 VAC, gen use (NO/NC, Form A, B or C) 6/3 A @ 277 VAC, ballast (NO/NC, Form A, B or C)
Minimum Load	5 VDC, 0.1 A
Material	Silver alloy
Resistance	< 50 milliohms initially (24 V, 1 A voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	DC: 500 mW AC: 1.4 VA
Max. Continuous Dissipation	DC: 1.7 W at 20°C (68°F) AC: 2.7 VA at 20°C (68°F)
Temperature Rise	38°C (68°F)
Temperature	Max. 105°C (221°F)

GENERAL DATA

Life Expectancy **Mechanical** **Electrical**	Minimum operations 1 x 10^7 1 x 10^5 at rated load
Operate Time	15 ms at nominal coil voltage
Release Time	10 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	1500 Vrms contact to contact 2500 Vrms contact to coil
Insulation Resistance	1000 megohms min. at 500 VDC, 20°C 50% RH
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 -55°C (-67°F) to 85°C (185°F) -55°C (-67°F) to 105°C (221°F)
Vibration	0.062" DA at 10–55 Hz
Shock	10 g
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, Quick Connects
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

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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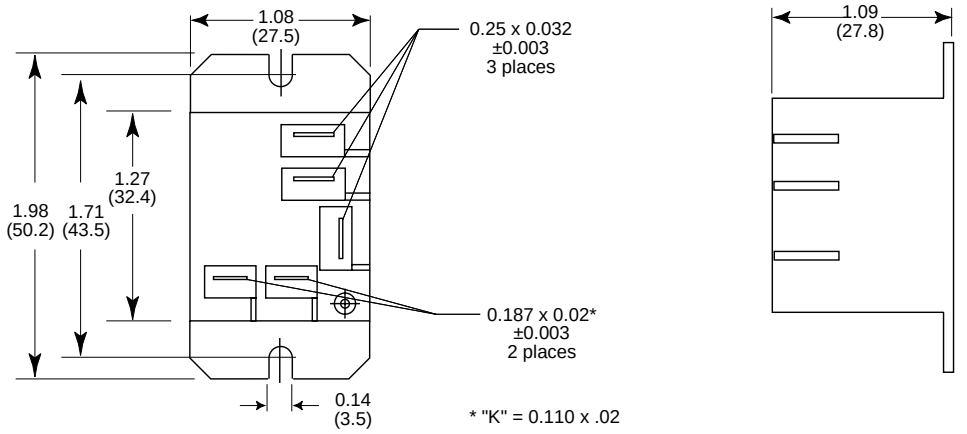
RELAY ORDERING DATA

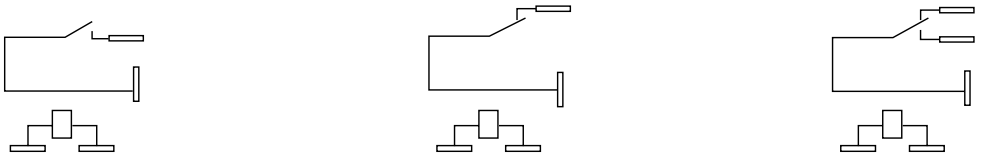
COIL SPECIFICATIONS – DC Coil					ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA ± 10%	Coil Resistance ± 10%	
5	3.75	6.4	185	27	AZ2280–1A–5D
6	4.50	7.8	150	40	AZ2280–1A–6D
9	6.75	12.2	93	97	AZ2280–1A–9D
12	9.00	15.4	77	155	AZ2280–1A–12D
15	11.25	19.8	59	256	AZ2280–1A–15D
18	13.5	24.1	47	380	AZ2280–1A–18D
24	18.00	32.0	36	660	AZ2280–1A–24D
48	36.00	62.6	19	2560	AZ2280–1A–48D
COIL SPECIFICATIONS – AC Coil					**ORDER NUMBER***
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Coil Power VA	Coil Resistance ± 10%	
12	10.2	13.8	2.0	25	AZ2280–1A–12A
24	20.4	27.6	2.0	100	AZ2280–1A–24A
120	102.0	138.0	2.0	2,500	AZ2280–1A–120A
208	176.8	276.0	1.5	11,000	AZ2280–1A–208A
240	204.0	276.0	2.0	11,000	AZ2280–1A–240A
277	235.4	318.5	2.0	14650	AZ2280-1A-277A

*Add suffix “E” for epoxy sealed version. Substitute “1B” or “1C” for 1 form B or 1 form C.

MECHANICAL DATA



WIRING DIAGRAM (Top View)



Form A **Form B** **Form C**

Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

ZETTLER electronics

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