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
- Epoxy sealed versions available
- UL Class F (155°C) standard
- UL, CUR file E44211
- VDE 40027037 (DC coil only)

CONTACTS

Arrangement	SPST (1 Form A, or B) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 840 W or 8310 VA Max. switched current: 30 A (Form A) 15 A (Form B) Max. switched voltage: 277 VAC, 28 VDC
UL, CUR	1 Form A 30 A at 277 VAC, General Use [1][2] 28 A at 277 VAC, General Use, 100k cycles [1] 2 Hp at 250 VAC [1][2] 1 HP at 125 VAC [1][2] 30 A at 28 VDC [1] 20/60 (FLA/LRA) at 277 VAC 30k cycles [1] 1 Form B 15 A at 277 VAC, General Use [1] 10 A at 28 VDC [1] 0.5 HP at 250 VAC [1] 0.25 HP at 125 VAC [1] 10/33 (FLA/LRA) at 277 VAC 30k cycles [1] 1 Form C 30/20 A (N.O./N.C.) at 277 VAC, General Use [1][2] 20/10 A (N.O./N.C.) at 28 VDC[1] 2/0.5 HP (N.O./N.C.) at 250 VAC[1][2] 1/0.25 HP (N.O./N.C.) at 125 VAC[1][2] 20/60 (FLA/LRA) at 277 VAC 30k cycles N.O. [1] 10/33 (FLA/LRA) at 277 VAC 30k cycles N.C. [1]
VDE	Contact factory for ratings
Material	Silver cadmium oxide [1], silver tin oxide [2]
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. 155°C (311°F)	

GENERAL DATA

Life Expectancy
     Mechanical
     Electrical
	Minimum operations
	 1×10^7
	 1×10^5 at 30 A 120 VAC Res. N.O.

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 155°C (311°F)

Vibration	0.062" 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

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.

AMERICAN ZETTLER, INC.

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AZ2280

## 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–5DF
6	4.50	7.8	150	40	AZ2280–1A–6DF
9	6.75	12.2	93	97	AZ2280–1A–9DF
12	9.00	15.4	77	155	AZ2280–1A–12DF
15	11.25	19.8	59	256	AZ2280–1A–15DF
18	13.5	24.1	47	380	AZ2280–1A–18DF
24	18.00	32.0	36	660	AZ2280–1A–24DF
48	36.00	62.6	19	2560	AZ2280–1A–48DF
110	82.5	146.6	8.2	13450	AZ2280-1A-110DF
COIL SPECIFICATIONS – AC Coil 50/60 Hz					ORDER NUMBER*
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Coil Power VA	Coil Resistance ± 10%	
12	10.2	13.8	2.3	25	AZ2280–1A–12AF
24	20.4	27.6	2.1	100	AZ2280–1A–24AF
120	102.0	138.0	2.3	2,500	AZ2280–1A–120AF
208	176.8	239.0	2.2	11,000	AZ2280–1A–208AF
220/240	187.0	276.0	2.2/2.6	13,490	AZ2280–1A–240AF
277	235.4	318.5	2.2	15,000	AZ2280–1A–277AF

*Substitute "-1B" or "-1C" in place of "-1A" for 1 Form B or 1 Form C respectively. For silver tin oxide contacts substitute "-1AE" or "-1CE" in place of "-1A" or "-1C." Add "T" to "-1A", "-1AE", "-1B", "-1C" or "-1CE" for extended life contacts. Substitute "DEF" or "AEF" in place of "DF" or "AF" for epoxy sealed version. For 0.110 coil terminals change "F" to "KF."

MECHANICAL DATA
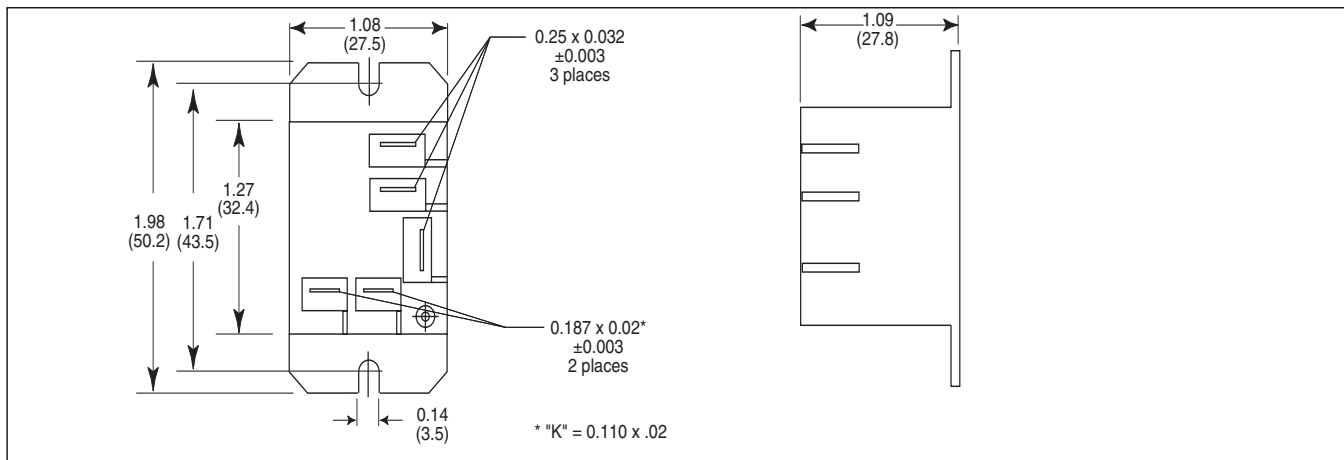
WIRING DIAGRAM (Top View)

1 FORM A   1 FORM B   1 FORM C
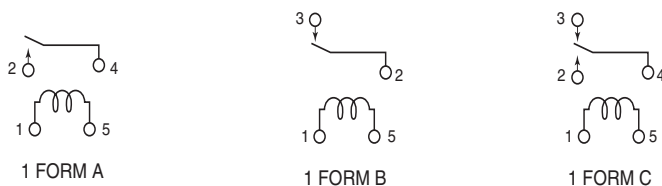
Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

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