

# 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

<b>Arrangement</b>	SPST (1 Form A, or B) SPDT (1 Form C)
<b>Ratings</b>	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
<b>UL, CUR</b>	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)
<b>Minimum Load</b>	5 VDC, 0.1 A
<b>Material</b>	Silver alloy
<b>Resistance</b>	< 50 milliohms initially (24 V, 1 A voltage drop method)

### COIL

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

### GENERAL DATA

<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at rated load
<b>Operate Time</b>	15 ms at nominal coil voltage
<b>Release Time</b>	10 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	1500 Vrms contact to contact 2500 Vrms contact to coil
<b>Insulation Resistance</b>	1000 megohms min. at 500 VDC, 20°C 50% RH
<b>Dropout</b>	DC: Greater than 10% of nominal coil voltage AC: Greater than 20% of nominal coil voltage
<b>Ambient Temperature</b> <b>Operating</b> <b>Storage</b>	At nominal coil voltage -55°C (-67°F) to 85°C (185°F) -55°C (-67°F) to 105°C (221°F)
<b>Vibration</b>	0.062" DA at 10–55 Hz
<b>Shock</b>	10 g
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy, Quick Connects
<b>Max. Solder Temp.</b>	270°C (518°F)
<b>Max. Solder Time</b>	5 seconds
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	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.

**ZETTLER electronics**

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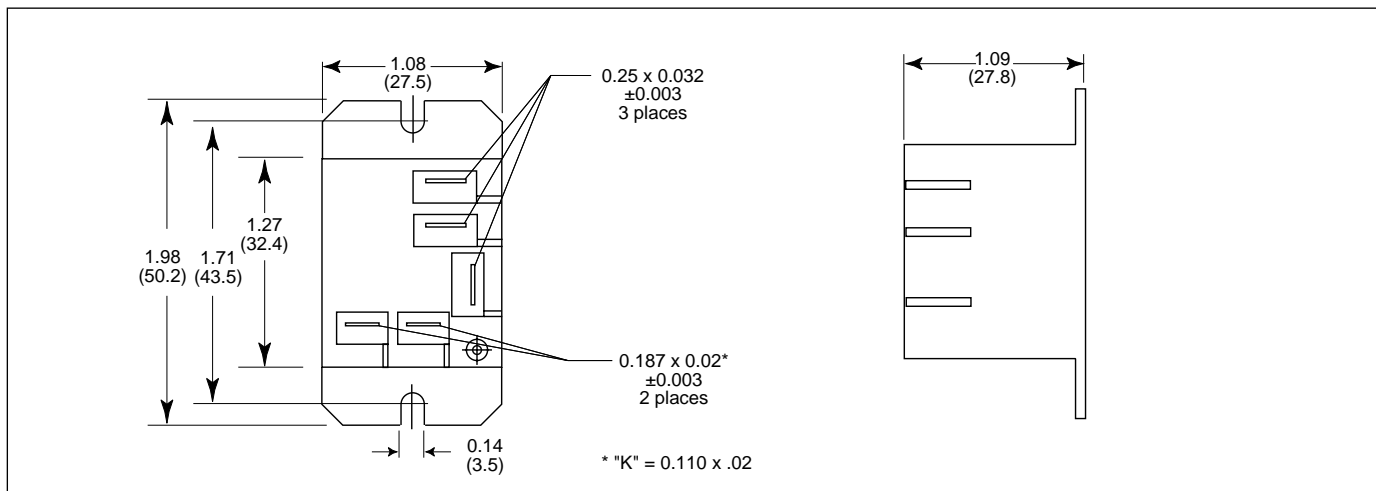
# AZ2280

## RELAY ORDERING DATA

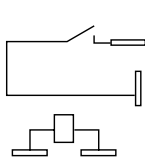
COIL SPECIFICATIONS – DC Coil					ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA $\pm 10\%$	Coil Resistance $\pm 10\%$	
5	3.75	6.4	185	27	AZ2280-1A-5D
6	4.50	7.8	150	40	AZ2280-1A-6D
9	6.75	12.2	93	97	AZ2280-1A-9D
12	9.00	15.4	77	155	AZ2280-1A-12D
15	11.25	19.8	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 $\pm 10\%$	
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.

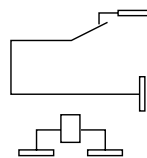
## MECHANICAL DATA



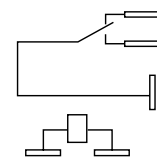
## WIRING DIAGRAM (Top View)



Form A



Form B



Form C

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

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