# **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 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> 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	At nominal coil voltage -55°C (-67°F) to 105°C (221°F)			
Storage	-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.

www.azettler.com

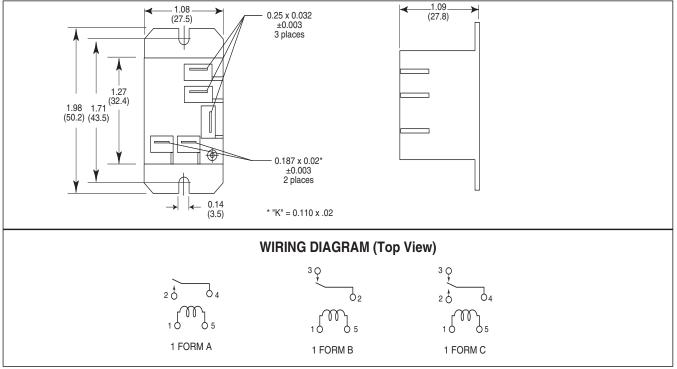
# **AZ2280**

#### **RELAY ORDERING DATA**

	COIL SPECIFICATIONS – DC Coil					
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA ± 10%	Coil Resistance ± 10%	ORDER NUMBER*	
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					
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Coil Power VA	Coil Resistance ± 10%	ORDER NUMBER*	
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	

<sup>\*</sup>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**



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

www.azettler.com