

# AZ2701

## 30 AMP POWER RELAY

### FEATURES

- 30 Amp switching
- 30 Amp AC7a approved
- 900 Amp Short circuit current (carrying)
- PC mount and quick connect terminals
- Dielectric strength 4000Vrms
- Standard (2.4mm) and wide contact gap (3.0mm) available
- UL, CUR file E44211
- TÜV certificate R50164753



### CONTACTS

Arrangement	SPST (1 Form X) DPST (2 Form X)
Ratings	Resistive load:  Max. switched power: 840W (2X) or 8310VA (1X) Max. switched current: 30A Max. switched voltage: 150VDC* or 400VAC  *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.
Rated Load	30A at 277VAC, resistive 30k cycles [1][2] 25A at 277 VAC, resistive, 100k cycles [2] 25A at 240 VAC, resistive, 100k cycles [1] 3HP at 240 VAC, 6k cycles [1] 1.5HP at 120 VAC, 6k cycles [1] TV-10 at 120 VAC, 6k cycles [1] 105 LRA / 20.5 FLA at 240 VAC, 100k cycles [1]
UL, CUR	SPST (1 Form X) 10A at 120 VAC, tungsten, 6k cycles [1][2] 3HP at 240 VAC, 100k cycles [2] 1.5HP at 120 VAC, 100k cycles [2]
	DPST (2 Form X) 10A at 277 VAC, tungsten, 6k cycles [2] 10A at 120 VAC, tungsten, 6k cycles [1] 2HP at 277 VAC, 75k cycles [2] 1HP at 125 VAC, 30k cycles [2]
TÜV	27A at 240VAC, cos phi 0.8, 50k cycles [1][2] 25A at 240VAC, cos phi 0.4, 50k cycles [1][2]
Material	[1] Silver cadmium oxide, [2] silver tin oxide
Resistance	< 100 milliohms initially (24V, 1A voltage drop method)

### COIL

Power	
At Pickup Voltage (typical)	1.08W (DC) 1.7VA (AC)
Max. Continuous Dissipation	3.8 W at 20°C (68°F) ambient
Temperature Rise	50°C (90°F) at nominal coil voltage
Temperature	Max. 130°C (266°F) - Class B Max. 155°C (311°F) - Class F

### GENERAL DATA

Life Expectancy	Minimum operations 1 x 10 <sup>6</sup> 1 x 10 <sup>5</sup> at rated load
Operate Time (max)	30ms at nominal coil voltage
Release Time (max)	30ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	4000Vrms coil to contact 2000Vrms between open contacts
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH
Dropout	Greater than 5% of nominal coil voltage (DC) Greater than 15% of nominal coil voltage (AC)
Ambient Temperature	At nominal coil voltage
Operating	-40°C (-40°F) to 85°C (185°F) - Class B
Storage	-40°C (-40°F) to 105°C (221°F) - Class F
	-40°C (-40°F) to 130°C (266°F) - Class B
	-40°C (-40°F) to 155°C (311°F) - Class F
Vibration	0.062" DA at 10–55 Hz
Shock	10g, 11ms, 1/2 sine (no false operation)
Operating	100g, 11ms, 1/2 sine (no damage)
Non-Operating	
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, Quick connect tabs Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.
Weight (Approx)	120 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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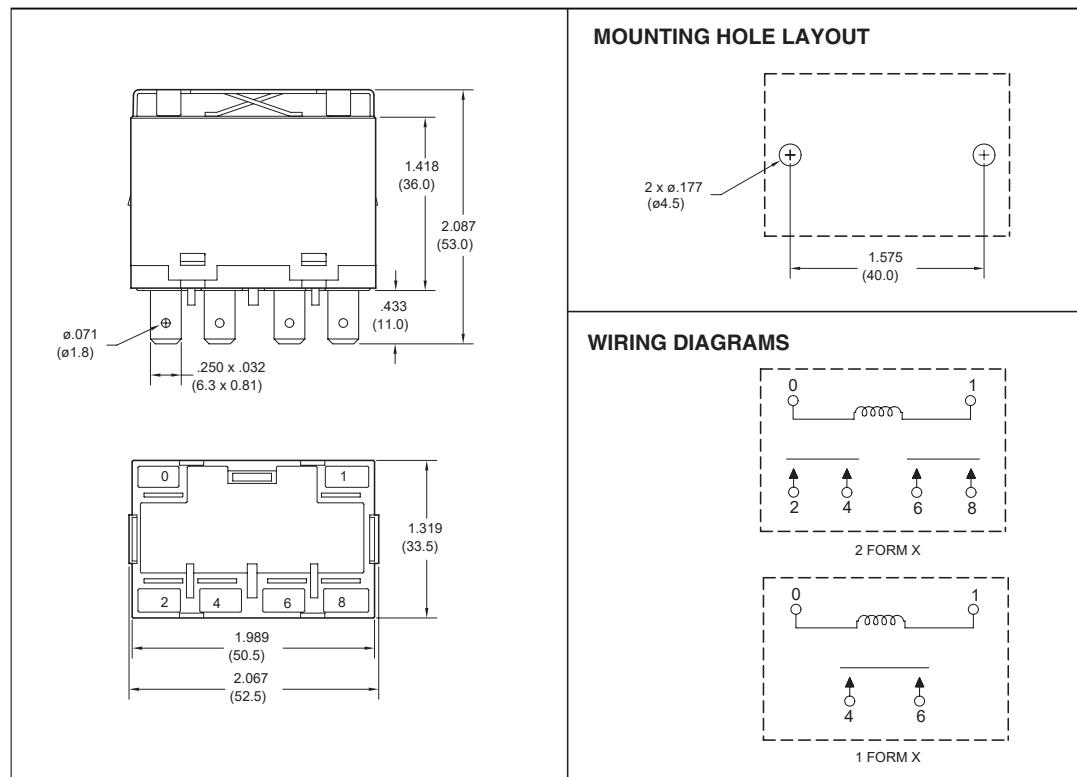
## RELAY ORDERING DATA

COIL SPECIFICATIONS – DC COIL				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	1 Form X	2 Form X
3	2.25	4.2	5	AZ2701-1A-3D	AZ2701-2A-3D
6	4.50	8.4	19	AZ2701-1A-6D	AZ2701-2A-6D
12	9.00	16.8	75	AZ2701-1A-12D	AZ2701-2A-12D
24	18.00	33.7	300	AZ2701-1A-24D	AZ2701-2A-24D
48	36.0	67.5	1200	AZ2701-1A-48D	AZ2701-2A-48D
100	75.0	140.5	5200	AZ2701-1A-100D	AZ2701-2A-100D
110	82.5	154.7	6300	AZ2701-1A-110D	AZ2701-2A-110D
200	150.0	282.4	21000	AZ2701-1A-200D	AZ2701-2A-200D

COIL SPECIFICATIONS – AC COIL				ORDER NUMBER*	
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Coil Current mA $\pm 10\%$	1 Form X	2 Form X
6	4.80	6.6	319	AZ2701-1A-6A	AZ2701-2A-6A
12	9.60	13.2	160	AZ2701-1A-12A	AZ2701-2A-12A
24	19.2	26.4	80	AZ2701-1A-24A	AZ2701-2A-24A
48	38.4	52.8	40	AZ2701-1A-48A	AZ2701-2A-48A
120	96.0	132.0	23	AZ2701-1A-120A	AZ2701-2A-120A
220	176.0	242.0	10	AZ2701-1A-220A	AZ2701-2A-220A
240	192.0	264.0	9	AZ2701-1A-240A	AZ2701-2A-240A

\*For silver tin oxide add suffix "T." For wide contact gap add "W". For Class F add suffix "F".

## MECHANICAL DATA



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

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