## **30 AMP POWER RELAY**

#### **FEATURES**

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

#### CONTACTS

CONTACTS	
Arrangement	SPST (1 Form X) DPST (2 Form X)
Ratings	Resistive load:
	Max. switched power: 840 W or 8310 VA Max. switched current: 30 A Max. switched voltage: 300 VDC* or 400 VAC  *Note:If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load	
UL	30 A at 277 VAC, resistive, 30k cycles [1][2] 25 A at 277 VAC, resistive, 100k cycles [2] 25 A at 240 VAC, resistive, 100k cycles [1] 3 HP at 240 VAC, 6k cycles [1] 1.5 HP 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]  SPST (1 Form X) 10 A at 120 VAC, tungsten, 6k cycles [1][2] 3 HP at 240 VAC, 100k cycles [2] 1.5 HP at 120 VAC, 100k cycles [2]  DPST (2 Form X) 10 A at 277 VAC, tungsten, 6k cycles [2] 10 A at 120 VAC, tungsten, 6k cycles [1] 2 HP at 277 VAC, 75k cycles [2] 1 HP at 125 VAC, 30k cycles [2]
тüv	27 A at 240 VAC, cos phi 0.8, 50k cycles [1][2] 25 A at 240 VAC, cos phi 0.4, 50k cycles [1][2]
Material	Silver cadmium oxide [1], silver tin oxide [2]
Resistance	< 100 milliohm initially (24 V, 1 A voltage drop method)

#### COIL

Power			
At Pickup Voltage (typical)	1.08 W (DC) 1.7 VA (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		

### **RoHS compliant!**



#### **GENERAL DATA**

Life Expectancy	Minimum operations			
Mechanical	1 x 10 <sup>6</sup>			
Electrical	1 x 10 <sup>5</sup> at rated load			
Operate Time (typical)	30 ms at nominal coil voltage			
Release Time (typical)	30 ms at nominal coil voltage			
	(with no coil suppression)			
Dielectric Strength	4000 Vrms coil to contact			
(at sea level for 1 min.)	2000 Vrms between open contacts			
Insulation	1000 megohms min. at 20°C, 500 VDC,			
Resistance	50% RH			
Dropout	> 5% of nominal coil voltage (DC)			
	> 15% of nominal coil voltage (AC)			
Ambient Temperature	At nominal coil voltage			
Operating	-40°C (-40°F) to 70°C (158°F) at nominal,			
	-40°C (-40°F) to 85°C (185°F) at 50%			
	or less of nominal (holding voltage).			
Vibration	0.062" DA at 10-55 Hz			
Shock				
Operating	10 g, 11 ms, $1/2$ sine (no false operation)			
Non-Operating	100 g, 11 ms, 1/2 sine (no damage)			
Enclosure	P.B.T. polyester			
Terminals	Tinned copper alloy, PC mount			
Max. Solder Temp.	270°C (518°F)			
Max. Solder Time	5 seconds			
Weight	120 grams			
Packing unit in pcs	16 per plastic tray / 80 per carton box			

#### 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 GmbH - A ZETTLER GROUP Company

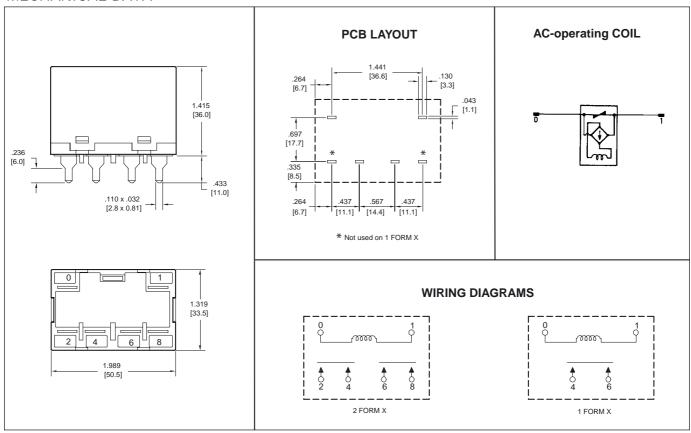
#### **RELAY ORDERING DATA**

COIL SPECIFICATIONS – DC COIL			ORDER NUMBER*		
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	1 Form X	2 Form X
3	2.3	4.2	5	AZ2704-1A-3D	AZ2704-2A-3D
6	4.5	8.4	19	AZ2704-1A-6D	AZ2704-2A-6D
12	9.0	16.8	75	AZ2704-1A-12D	AZ2704-2A-12D
24	18.0	33.7	300	AZ2704-1A-24D	AZ2704-2A-24D
48	36.0	67.5	1,200	AZ2704-1A-48D	AZ2704-2A-48D,
100	75.0	140.5	5,200	AZ2704-1A-100D	AZ2704-2A-100D
110	82.5	154.7	6,300	AZ2704-1A-110D	AZ2704-2A-110D
200	150.0	282.4	21,000	AZ2704-1A-200D	AZ2704-2A-200D

COIL SPECIFICATIONS – AC COIL			ORDER NUMBER*		
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Coil Current mA ± 10%	1 Form X	2 Form X
6	4.8	6.6	319	AZ2704-1A-6A	AZ2704-2A-6A
12	9.6	13.2	160	AZ2704-1A-12A	AZ2704-2A-12A
24	19.2	26.4	80	AZ2704-1A-24A	AZ2704-2A-24A
48	38.4	52.8	40	AZ2704-1A-48A	AZ2704-2A-48A
120	96.0	132.0	23	AZ2704-1A-120A	AZ2704-2A-120A
220	176.0	242.0	10	AZ2704-1A-220A	AZ2704-2A-220A
240	192.0	264.0	9	AZ2704-1A-240A	AZ2704-2A-240A

<sup>\*</sup> 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: ± .010"

# ZETTLER electronics GmbH - A ZETTLER GROUP COMPANY

AZ2704

