AZ2703

30 AMP POWER RELAY

FEATURES

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

CONTACTS

Arrangement	SPST (1 Form X) DPST (2 Form X)
Ratings	Resistive load: Max. switched power: 840W or 8310VA Max. switched current: 30A 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, CUR**	30A at 277 VAC, 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] 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 **Mechanical** **Electrical**	Minimum operations 1 x 10^6 1 x 10^5 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 **Operating** **Storage**	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) - Class B -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 **Operating** **Non-Operating**	 10g, 11ms, 1/2 sine (no false operation) 100g, 11ms, 1/2 sine (no damage)
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	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.

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8/17/15

AZ2703

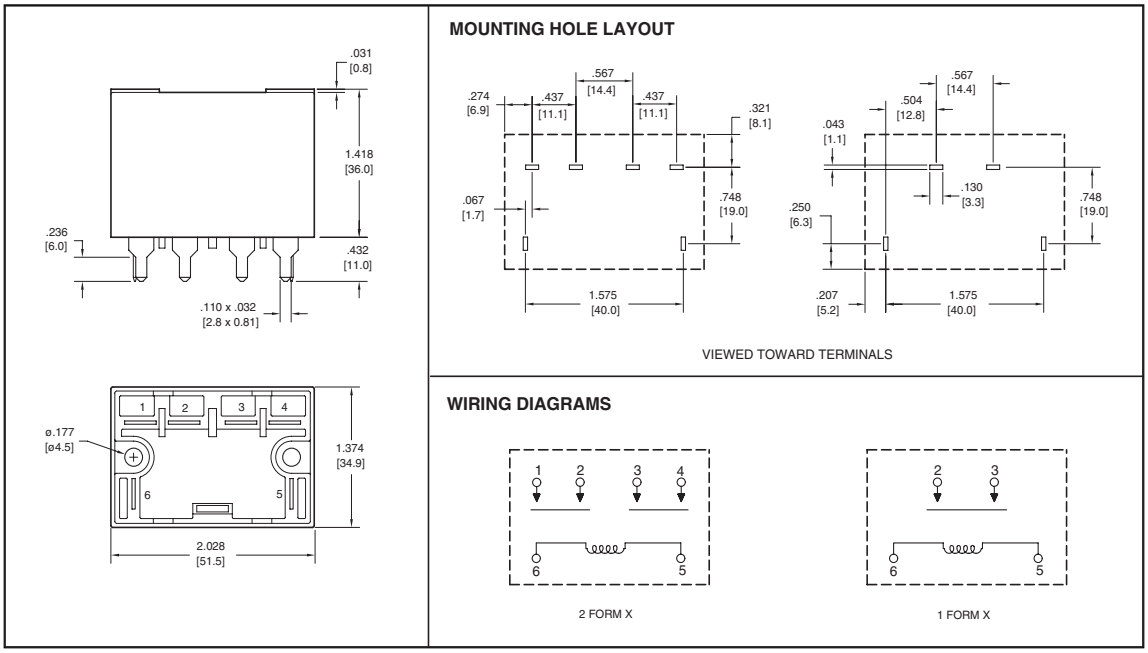
RELAY ORDERING DATA

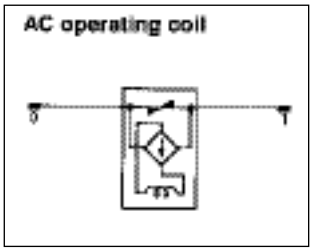
COIL SPECIFICATIONS – DC COIL				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	1 Form X	2 Form X
3	2.25	4.2	5	AZ2703–1A–3D	AZ2703–2A–3D
6	4.50	8.4	19	AZ2703–1A–6D	AZ2703–2A–6D
12	9.00	16.8	75	AZ2703–1A–12D	AZ2703–2A–12D
24	18.00	33.7	300	AZ2703–1A–24D	AZ2703–2A–24D
48	36.0	67.5	1200	AZ2703–1A–48D	AZ2703–2A–48D
100	75.0	140.5	5200	AZ2703–1A–100D	AZ2703–2A–100D
110	82.5	154.7	6300	AZ2703–1A–110D	AZ2703–2A–110D
200	150.0	282.4	21000	AZ2703–1A–200D	AZ2703–2A–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	4.80	6.6	319	AZ2703–1A–6A	AZ2703–2A–6A
12	9.60	13.2	160	AZ2703–1A–12A	AZ2703–2A–12A
24	19.2	26.4	80	AZ2703–1A–24A	AZ2703–2A–24A
48	38.4	52.8	40	AZ2703–1A–48A	AZ2703–2A–48A
120	96.0	132.0	23	AZ2703–1A–120A	AZ2703–2A–120A
220	176.0	242.0	10	AZ2703–1A–220A	AZ2703–2A–220A
240	192.0	264.0	9	AZ2703–1A–240A	AZ2703–2A–240A

*For epoxy sealed version add suffix “E”. For silver tin oxide add suffix “T.” For wide contact gap add suffix “W”. For Class F add suffix “F”.

MECHANICAL DATA





Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"