

AZ7709

SPDT SUBMINIATURE POWER RELAY

FEATURES

- 4 kV dielectric strength
- Proof tracking index (PTI/CTI) 250
- 5 Amp switching capability (version "T" 10 Amp)
- Epoxy sealed version available
- Class F insulation available
- UL, CUR file E365652
- TUV B0887930007



CONTACTS

Arrangement	SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 150W or 1250VA (Version "T": 300W or 2500VA) Max. switched current: 5A (Version "T": 10A) Max. switched voltage: 30VDC* or 250VAC * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load UL, CUR	Standard Coil 5A at 250VAC, resistive, 100k cycles 85°C 5A at 30VDC, resistive, 100k cycles 85°C 1/6HP at 125/250 VAC, 100k cycles 85°C Sensitive Coil 3A at 250VAC, Res. 100k cycles 85°C 3A at 30VDC, Res. 100k cycles 85°C High capacity version "T" Standard Coil 10A at 250VAC, Res. 100k cycles 85°C 10A at 30VDC, Res. 100k cycles 85°C 1/6HP at 125/250 VAC, 100k cycles 85°C TV5 at 120VAC, 25k cycles 25°C Silver tin contacts only Sensitive Coil 8A at 250VAC, 85°C, 100k cycles 8A at 30VDC, Res. 100k cycles 85°C
TUV	Standard Coil 5A at 250VAC/ 30VDC, Res., 100k cycles 85°C 10A at 250VAC/ 30VDC, Res., 100k cycles 85°C (*T Ver.) Sensitive Coil 3A at 250VAC/ 30VDC, Res. 100k cycles 85°C 8A at 250VAC/ 30VDC, Res., 100k cycles 85°C (*T Ver.) (All TUV ratings 105°C Class F only)
Material	Silver cadmium oxide, Silver alloy (UL only), Silver tin oxide, gold plating available (UL/TUV only)
Resistance	< 100 milliohms initially (at 6V, 1A, voltage drop method)

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.

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵
Operate Time (max.)	8ms at nominal coil voltage
Release Time (max.)	4ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	4000 Vrms coil to contact 1000 Vrms between open contacts
Insulation Resistance	1000 MΩ min. at 20°C, 500VDC, 50% RH
Dropout	Greater than 5% of nominal coil voltage
Ambient Temperature Operating	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F) Class F only
Storage	-40°C (-40°F) to 105°C (221°F)
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C.
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 (approx.)	6 grams

COIL

Power	220 mW (standard coil) 113 mW (sensitive coil)
At Pickup Voltage (typical)	760 mW at 20°C (68°F) ambient
Max. Continuous Dissipation	41°C (74°F) at nominal coil voltage, standard 22°C (40°F) at nominal coil voltage, sensitive
Temperature Rise	
Temperature	Max. 105°C (221°F) Standard Max. 155°C (311°F) available

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AZ7709

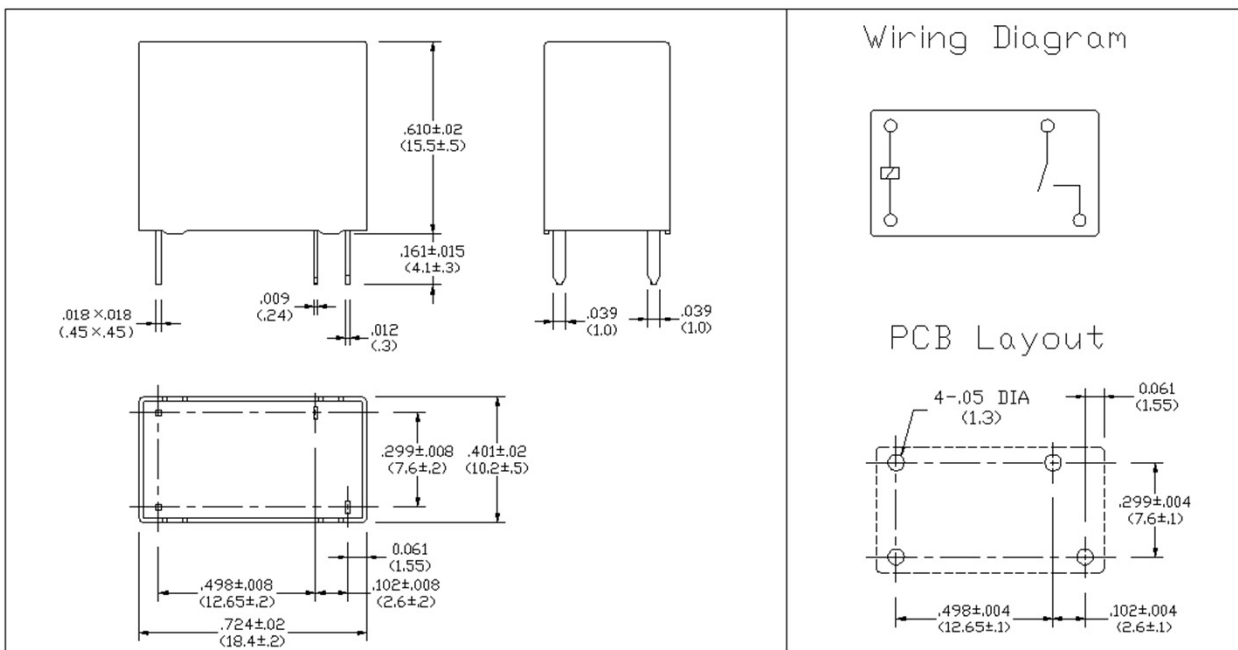
RELAY ORDERING DATA

STANDARD COIL				
COIL SPECIFICATIONS				ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm	Form A (SPST)
3	2.1	3.9	20 ± 10%	AZ7709-1A-3D
5	3.5	6.5	55 ± 10%	AZ7709-1A-5D
6	4.2	7.8	80 ± 10%	AZ7709-1A-6D
9	6.3	11.7	180 ± 10%	AZ7709-1A-9D
12	8.4	15.6	320 ± 10%	AZ7709-1A-12D
18	12.6	23.4	720 ± 10%	AZ7709-1A-18D
24	16.8	31.2	1,280 ± 10%	AZ7709-1A-24D
48	33.6	62.4	5,120 ± 15%	AZ7709-1A-48D

SENSITIVE COIL				
COIL SPECIFICATIONS				ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	Form A (SPST)
3	2.25	3.9	45 ± 10%	AZ7709-1A-3DS
5	3.75	6.5	125 ± 10%	AZ7709-1A-5DS
6	4.50	7.8	180 ± 10%	AZ7709-1A-6DS
9	6.75	11.7	400 ± 10%	AZ7709-1A-9DS
12	9.00	15.6	720 ± 10%	AZ7709-1A-12DS
18	13.50	23.4	1,620 ± 10%	AZ7709-1A-18DS
24	18.00	31.2	2,800 ± 10%	AZ7709-1A-24DS

* Standard contact material Silver cadmium oxide contacts.
 Substitute "AZ7709T" in place of "AZ7709" for high capacity version.
 Substitute "1AB" in place of "1A" for Silver alloy contacts. (UL only)
 Substitute "1AE" in place of "1A" for Silver tin oxide contacts.
 Add suffix "E" at the end of order number for sealed version.
 Add suffix "G" at the end of order number for gold plated contacts. (UL/TUV only)
 Add suffix "F" at the end of the model number for Class F 155°C Version.

MECHANICAL DATA



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

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