

AZ770

SPDT SUBMINIATURE POWER RELAY

FEATURES

- Small footprint
- 5 kV dielectric strength, 10 kV surge
- Class B insulation standard
- 8 mm creepage and clearance
- Epoxy sealed version available
- 5 Amp switching
- UL, CUR file E44211, VDE 40006815



CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 150 W (SPST-NO) standard 1250 VA (SPST-NO) standard 90 W (SPDT) 750 VA (SPDT) Max. switched current: 5 A AC SPST-NO standard 5 A DC SPST-NO standard 3 A AC/DC SPST-NO sensitive 3 A AC/DC SPDT Max. switched voltage: 150* VDC or 380 VAC *Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load UL, CUR	Form A (N.O.) 5 A at 250 VAC, Res., 100k cycles 5 A at 30 VDC, Res., 100k cycles 1/8 HP, 125 / 250 VAC, 100k cycles 3 A at 250 VAC, 0.4 PF., 100k cycles C300 Pilot Duty, 125 / 250 VAC, 100k cycles TV-2, 120 VAC Form C 3 A at 250 VAC, Res. 100k cycles 3 A at 30 VDC, Res. 100k cycles
VDE	Form A and Form C 5 A at 250 VAC, 100k cycles
Material	Silver nickel, gold plating available
Resistance	<100 milliohms initially (24 V, 1 A voltage drop method)

COIL

Power At Pickup Voltage (typical) Max. Continuous Dissipation Temperature Rise	253 mW standard 113 mW sensitive 1.25 W at 20°C (68°F) ambient 41°C (74°F) at nominal coil voltage, standard 22°C (40°F) at nominal coil voltage, sensitive
Temperature	Max. 130°C (266°F)

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁶ 1 x 10 ⁵ at 5 A 240 VAC Res.
Operate Time (typical)	8 ms at nominal coil voltage
Release Time (typical)	4 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	5000 Vrms coil to contact 1000 Vrms between open contacts
Surge Voltage Coil to contact	10,000V (at 1.2x50 μs)
Insulation Resistance	1000 megohms min. at 20°C 500 VDC 50% RH
Dropout	Greater than 5% of nominal coil voltage
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 90°C (194°F), standard -40°C (-40°F) to 105°C (221°F), sensitive -40°C (-40°F) to 130°C (266°F)
Vibration	0.062" DA at 10–55 Hz
Shock	10 g operating, 100 g damage
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	4.6 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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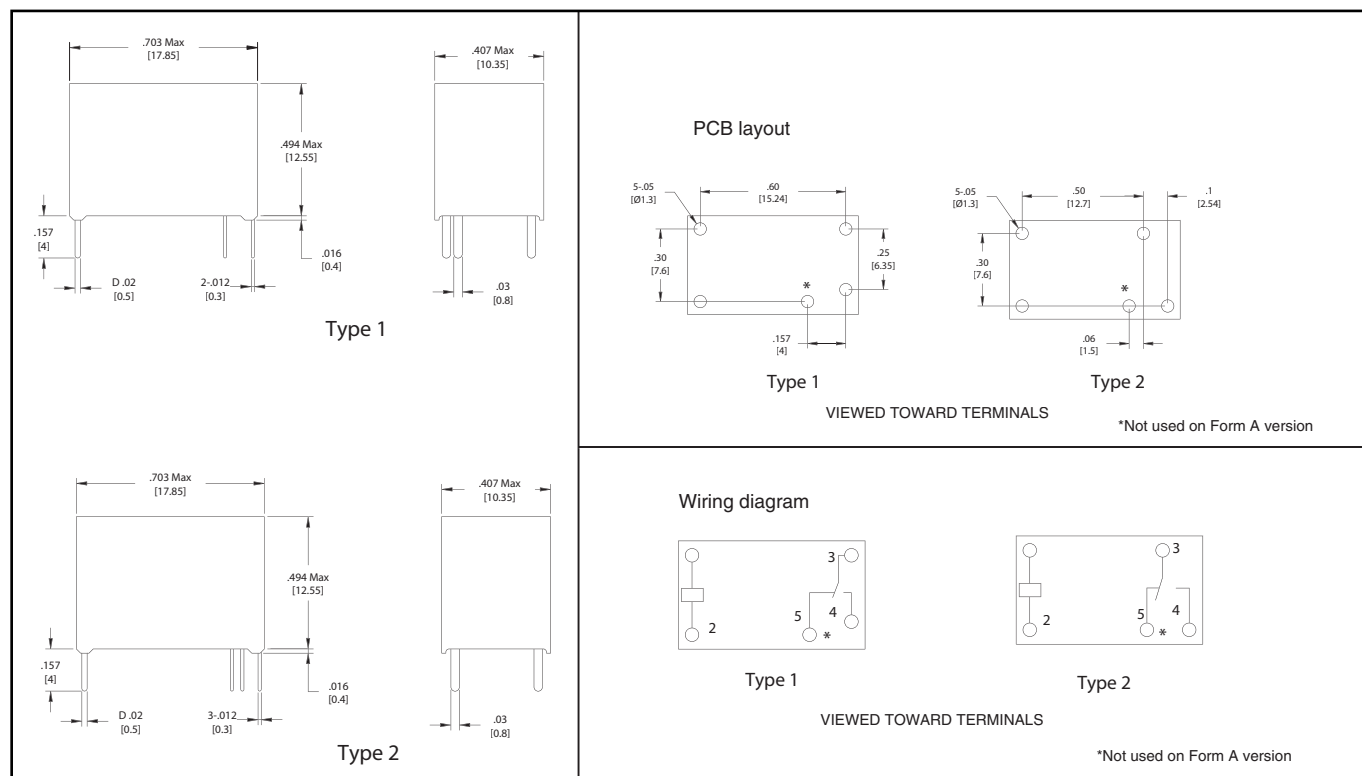
RELAY ORDERING DATA

STANDARD RELAYS – TYPE 1 FOOTPRINT					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance	Form A (SPST)	Form C (SPDT)
3	2.25	3.9	20 ± 10%	AZ770-1A-3D	AZ770-1C-3D
5	3.75	6.5	55 ± 10%	AZ770-1A-5D	AZ770-1C-5D
6	4.5	7.8	80 ± 10%	AZ770-1A-6D	AZ770-1C-6D
9	6.75	11.7	180 ± 10%	AZ770-1A-9D	AZ770-1C-9D
12	9.0	15.6	320 ± 10%	AZ770-1A-12D	AZ770-1C-12D
18	13.5	23.4	720 ± 10%	AZ770-1A-18D	AZ770-1C-18D
24	18.0	31.2	1,280 ± 10%	AZ770-1A-24D	AZ770-1C-24D
48	36.0	62.4	5120 ± 15%	AZ770-1A-48D	AZ770-1C-48D

SENSITIVE RELAYS – TYPE 1 FOOTPRINT					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance	Form A (SPST)	
3	2.25	5.1	45 ± 10%	AZ770-1A-3DS	
5	3.75	8.5	125 ± 10%	AZ770-1A-5DS	
6	4.5	10.2	180 ± 10%	AZ770-1A-6DS	
9	6.75	15.3	400 ± 10%	AZ770-1A-9DS	
12	9.0	20.4	720 ± 10%	AZ770-1A-12DS	
18	13.5	30.6	1600 ± 10%	AZ770-1A-18DS	
24	18.0	40.8	2800 ± 10%	AZ770-1A-24DS	

*Add suffix "E" for epoxy sealed version. Add suffix "K" for Type 2 footprint. Add suffix "G" for gold plated contacts.

MECHANICAL DATA



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



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