

阅读申明

- 1.本站收集的数据手册和产品资料都来自互联网，版权归原作者所有。如读者和版权方有任何异议请及时告之，我们将妥善解决。
- 2.本站提供的中文数据手册是英文数据手册的中文翻译，其目的是协助用户阅读，该译文无法自动跟随原稿更新，同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。
- 3.本站提供的产品资料，来自厂商的技术支持或者使用者的心得体会等，其内容可能存在描述上的差异，建议读者做出适当判断。
- 4.如需与我们联系，请发邮件到marketing@iczoom.com，主题请标有“数据手册”字样。

Read Statement

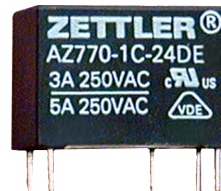
1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.
2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader's learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.
3. All product information provided on the website refer to solutions from manufacturers' technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.
4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets" .

AZ770

SPDT SUBMINIATURE POWER RELAY

FEATURES

- 5kV dielectric strength, 10kV surge
- 8mm creepage and clearance
- Proof tracking index (PTI/CTI) 250
- 5 Amp switching capability (version "T" 10 Amp)
- 20A high inrush current (1 Form A)
- Epoxy sealed version available
- UL Class F insulation (155°C) standard
- Reinforced insulation, EN 60730-1 (VDE 0631, part 1),
1 Form A: EN 60335-1 (VDE 0700, part 1)
- UL, CUR file E44211
- VDE certificate 40006815



CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 150W or 1250VA (Version "T": 150W 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	B300 pilot duty, 40°C 1000W, 250VAC, tungsten load, 40°C 6k cycles 1 Form A 5A at 250VAC, resistive, 100k cycles 5A at 30VDC, resistive, 100k cycles 3A at 250VAC, cos phi 0.4, 100k cycles 1/8HP at 125/250 VAC, 100k cycles C300 pilot duty, 125/250 VAC, 100k cycles TV-2 at 120VAC 1 Form C 3A at 250VAC, resistive, 100k cycles 3A at 30VDC, resistive, 100k cycles High capacity version "T" 10A at 250VAC, resistive, 85°C, 100k cycles 15A at 120VAC, resistive, 70°C, 6k cycles
VDE	5A at 250VAC, 85°C, 100k cycles 2A at 250VAC, cos phi 0.5, 85°C, 30k cycles * 3A at 400VAC, 85°C, 100k cycles * change-over contact tested as make contact High capacity version "T" 10A at 250VAC, 85°C, 15k cycles
Material	Silver nickel, silver tin oxide (high capacity version "T" only), gold plating available
Resistance	< 100 milliohms initially

GENERAL DATA

Life Expectancy Mechanical	Minimum operations 1 x 10 ⁶
Standard version Electrical	1 x 10 ⁵ at 5A 250VAC Res.
High capacity version "T" Electrical	1 x 10 ⁵ at 10A 250VAC Res.
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.)	5000Vrms coil to contact 1000Vrms between open contacts
Surge Voltage Coil to contact	10,000V (at 1.2x50 µs)
Insulation Resistance	1000 megohms min. at 20°C, 500VDC, 50% RH
Insulation (according to DIN VDE 0110, IEC 60664-1)	C250 Overvoltage category: III Pollution degree: 3 Nominal voltage: 250VAC
Dropout	Greater than 5% of nominal coil voltage
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F)
Vibration	1.65 mm 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 (approx.)	4.6 grams
Packing unit in pcs	100 per tray / 1000 per carton box

AMERICAN ZETTLER, INC. www.azettler.com

75 COLUMBIA • ALISO VIEJO, CA 92656 • PHONE: (949) 831-5000 • FAX: (949) 831-8642 • E-MAIL: SALES@AZETTLER.COM

AZ770

COIL

Power	
At Pickup Voltage (typical)	253mW (standard coil) 113mW (sensitive coil) 130mW (sensitive coil high capacity version "T")
Max. Continuous Dissipation	760 mW at 20°C (68°F) ambient
Temperature Rise (at nominal voltage)	41°C (74°F) standard coil 22°C (40°F) sensitive coil 27°C (49°F) sensitive coil high capacity version "T"
Temperature	Max. 155°C (311°F)

NOTES

<ol style="list-style-type: none"> 1. All values at 20°C (68°F) 2. Relay may pull in with less than "Must Operate" value. 3. The vibration resistance is 0.6mm DA at 10–55 Hz for the N.C. contact, if vibration is in length direction. 4. Specifications subject to change without notice.
--

RELAY ORDERING DATA

STANDARD COIL - TYPE 1 FOOTPRINT					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10	Form A (SPST)	Form C (SPDT)
3	2.25	3.9	20	AZ770-1A-3D	AZ770-1C-3D
5	3.75	6.6	55	AZ770-1A-5D	AZ770-1C-5D
6	4.50	7.8	80	AZ770-1A-6D	AZ770-1C-6D
9	6.75	11.7	180	AZ770-1A-9D	AZ770-1C-9D
12	9.00	15.6	320	AZ770-1A-12D	AZ770-1C-12D
18	13.50	23.4	720	AZ770-1A-18D	AZ770-1C-18D
24	18.00	31.2	1,280	AZ770-1A-24D	AZ770-1C-24D
48	36.00	62.4	5,120	AZ770-1A-48D	AZ770-1C-48D

* "1A" or "1C" denote silver nickel contacts.

Substitute "AZ770T-1AE" in place of "AZ770-1A" for high capacity version.

Add suffix "E" at the end of order number for sealed version.

Add suffix "K" at the end of order number for different footprint (Type 2); not available for high capacity version "T".

Add suffix "G" at the end of order number for gold plated contacts.

SENSITIVE COIL (STANDARD VERSION) - TYPE 1 FOOTPRINT				
COIL SPECIFICATIONS				ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	Form A (SPST)
3	2.25	5.1	45	AZ770-1A-3DS
5	3.75	8.5	125	AZ770-1A-5DS
6	4.50	10.2	180	AZ770-1A-6DS
9	6.75	15.3	400	AZ770-1A-9DS
12	9.00	20.4	720	AZ770-1A-12DS
18	13.50	30.6	1,600	AZ770-1A-18DS
24	18.00	40.8	2,800	AZ770-1A-24DS

* "1A" or "1C" denote silver nickel contacts.

Add suffix "E" at the end of order number for sealed version.

Add suffix "K" at the end of order number for different footprint (Type 2).

Add suffix "G" at the end of order number for gold plated contacts.

AMERICAN ZETTLER, INC. www.azettler.com

75 COLUMBIA • ALISO VIEJO, CA 92656 • PHONE: (949) 831-5000 • FAX: (949) 831-8642 • E-MAIL: SALES@AZETTLER.COM

AZ770

SENSITIVE COIL (HIGH CAPACITY VERSION "T") - TYPE 1 FOOTPRINT				ORDER NUMBER*
COIL SPECIFICATIONS				Form A (SPST)
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	
3	2.25	5.1	38	AZ770T-1AE-3DS
5	3.75	8.5	108	AZ770T-1AE-5DS
6	4.50	10.2	155	AZ770T-1AE-6DS
9	6.75	15.3	350	AZ770T-1AE-9DS
12	9.00	20.4	620	AZ770T-1AE-12DS
18	13.50	30.6	1,390	AZ770T-1AE-18DS
24	18.00	40.8	2,480	AZ770T-1AE-24DS
48	36.00	81.6	9,920	AZ770T-1AE-48DS

*"1AE" denote 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.

MECHANICAL DATA

Type 1

Type 2

PC BOARD LAYOUT

Type 1

Type 2

Viewed toward terminals

*Not used on Form A version

WIRING DIAGRAMS

Type 1

Type 2

Viewed toward terminals

*Not used on Form A version

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