AZ9571

SPDT SUBMINIATURE RELAY

FEATURES

- Subminiature size for high density packaging
- Epoxy sealed for automatic wave soldering
- · DIL pitch terminals
- High sensitivity coils with 96 mW pickup power
- RoHS compliant
- UL, CUR file E43203



CONTACTS

Arrangement SPDT (1 Form C)

Ratings (max.) (resistive load)
switched power 30 W or 62.5 VA

switched current 1 A

switched voltage 60 VDC* or 125 VAC

* Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please

contact the factory.

Rated Loads

UL 0.5 A at 125 VAC, resistive, 100k cycles 1 A at 30 VDC, resistive, 100k cycles 0.3 A at 60 VDC, resistive, 100k cycles

Contact materials AqNi/Au - silver nickel (gold plated)

Minimum switching 50 mA / 6 V

Initial resistance $< 100 \text{ m}\Omega$

COIL

Nominal coil DC voltages see coil voltage specifications tables

Dropout > 10% of nominal coil voltage

Power at pickup voltage (typ.) standard coil 128 mW sensitive coil 96 mW

Max. continuous dissipation 600 mW at 20°C (68°F) ambient

Max. temperature 105°C (221°F)

NOTES

. 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 (minimum operations)

mechanical 5×10^6 elctrical 1×10^5

Operate Time 5 ms (max.) at nominal coil voltage

Release Time 5 ms (max.) at nominal coil voltage, without coil

suppression

Dielectric Strength (at sea level for 1 min.)

1000 V_{RMS} coil to contact 400 V_{RMS} between open contacts

Insulation Resistance 1000 MΩ (min.) at 20°C, 500 VDC, 50% RH

Temperature Range operating

(at nominal coil voltage) -30°C (-22°F) to 70°C (158°F)

Vibration resistance 3.3 mm (0.130") DA at 10–55 Hz

Shock resistance 10 g operating

Terminals Tinned copper alloy, P. C.

Soldering

max. Temperature 260°C (500°F) max. Time 260°C (500°F)

Cleaning

max. Solvent Temp. 80°C (176°F) max. Immersion Time 30 seconds

Dimensions

length width 7.5 mm (0.49")
height 7.5 mm (0.30")
Weight 2.2 grams

Compliance IEC 61810-1, UL 508, RoHS

Packing unit in pcs 20 per tray / 1000 per carton box

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COIL VOLTAGE SPECIFICATIONS

Standard Coil

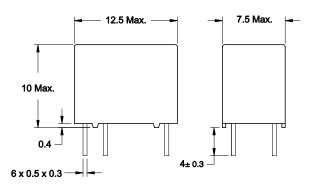
| Nominal Coil | Must Operate | Max. Continuous | Resistance |
|--------------|--------------|-----------------|------------|
| VDC | VDC | VDC | Ohm ± 10% |
| 3 | 2.4 | 4.5 | 45 |
| 5 | 4.0 | 7.5 | 125 |
| 6 | 4.8 | 9.0 | 180 |
| 9 | 7.2 | 13.5 | 405 |
| 12 | 9.6 | 18.0 | 720 |
| 24 | 19.2 | 36.0 | 2880 |

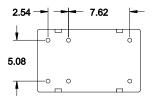
Sensitive Coil

| Nominal Coil | Must Operate | Max. Continuous | Resistance |
|--------------|--------------|-----------------|------------|
| VDC | VDC | VDC | Ohm ± 10% |
| 3 | 2.4 | 6.0 | 60 |
| 5 | 4.0 | 10.0 | 167 |
| 6 | 4.8 | 12.0 | 240 |
| 9 | 7.2 | 18.0 | 540 |
| 12 | 9.6 | 24.0 | 960 |
| 24 | 19.2 | 48.0 | 3840 |

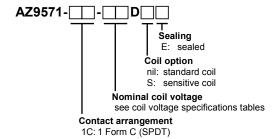
MECHANICAL DATA

Dimensions in mm.





ORDERING DATA

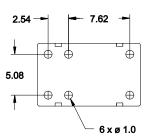


Example ordering data

AZ9571-1C-5DE 5 VDC nominal coil voltage, standard coil, sealed
AZ9571-1C-12DSE 12 VDC nominal coil voltage, sensitive coil, sealed

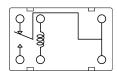
PC BOARD LAYOUT

Viewed towards terminals. Dimensions in mm.



WIRING DIAGRAMS

Viewed towards terminals, shown in de-energized condition.



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