AZ951/AZ952

SUBMINIATURE POWER RELAY

FEATURES

- Subminiature size for high density packaging
- · Low cost relay, SPDT contact arrangement
- 2 different pinnings available
- 1 Amp, 3 Amp and 5 Amp versions available
- Standard and sensitive coils up to 24 VDC available
- Sensitive coils with low pickup power of 116 mW
- · Epoxy sealed
- · Life expectancy of up to 10 million operations
- UL, CUR file E43203





CONTACTS

Arrangement SPDT (1 Form C) Ratings (max.) (resistive load)

Light duty version

30 W or 125 VA switched power switched current

switched voltage 60 VDC* or 220VAC

Medium duty version

90 W or 375 VA switched power

switched current

60 VDC* or 220VAC switched voltage

Heavy duty version switched power

150 W or 625 VA switched current 60 VDC* or 220VAC switched voltage

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

contact the factory.

UL Rated Loads

Light duty version 1 A at 125 VAC 1 A at 30 VDC

Medium duty version 3 A at 125 VAC

3 A at 30 VDC

270 VA, 125 VAC, Pilot Duty,

30k cycles (N.O.), 6k cycles (N.C.)

Heavy duty version 5 A at 125 VAC

5 A at 30 VDC

Contact materials

Silver (Ag + Au), gold plated Silver (Ag + Au), gold plated Silver nickel (AgNi + Au), gold plated Light duty version Medium duty version Heavy duty version

Initial resistance ≤ 50 mΩ

NOTES

All values at 20°C (68°F).

Relay may pull in with less than "Must Operate" value.

Specifications subject to change without notice.

GENERAL DATA

Life Expectancy (minimum operations)

mechanical

1 x 10⁵ at 3 A 120 VAC resistive electrical

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

Release Time 1 ms (typ.) at nominal coil voltage, without coil

suppression

Dielectric Strength (at sea level for 1 min.)

1000 V_{RMS} coil to contact 500 V_{RMS} between open contacts

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

Temperature Range (at nominal coil voltage)

operating

-25°C (-13°F) to 55°C (131°F) standard coil versions sensitive coil versions -25°C (-13°F) to 70°C (158°F)

Vibration resistance 1.5 mm (0.062") DA at 10-55 Hz

Shock 10 g operating

P.B.T. polyester **Enclosure Terminals** Tinned copper alloy, P. C.

Soldering

270°C (518°F) Max. Temperature Max. Time 5 seconds

Cleaning

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

Dimensions

15.75 mm (0.620") length width 10.75 mm (0.423") 11.81 mm (0.465") heiaht Weight 3.5 grams (approx.)

Packing unit in pcs 25 per plastic tray / 2000 per carton box

Compliance UL 508, RoHS

ZETTLER electronics GmbH A ZETTLER GROUP Company

Junkersstr. 3, D-82178 Puchheim, Germany

phone: +49 89 800 97-0 fax: +49 89 800 97-200

office@ZETTLERelectronics.com www.ZETTLERelectronics.com

AZ951/AZ952

COIL

Nominal coil DC voltages see coil voltage specifications tables

Dropout ≥ 10% of nominal coil voltage

Power (typ.)
nominal
standard coil 450 mW
sensitive coil 200 mW

at pickup voltage standard coil 253 mW sensitive coil 113 mW

Temperature Rise (at nominal coil voltage)

standard coil 54 K (97°F) sensitive coil 30 K (54°F)

Max. temperature Class F insulation - 155°C (311°F)

.060 [1.52] -- - - .100

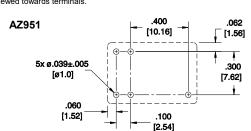
MECHANICAL DATA

[15.75]

[2.54]

Viewed towards terminals.

PC BOARD LAYOUT



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

.125

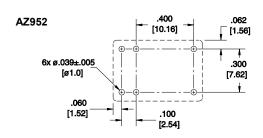
[3.18]

.465 [11.81] 423

[10.75]

.300

[7.62]



COIL VOLTAGE SPECIFICATIONS

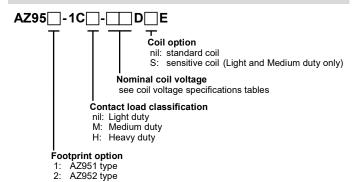
Standard Coil

Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Resistance Ohm ± 10%
3	2.25	3.3	20
5	3.75	5.5	56
6	4.5	6.6	80
12	9.0	13.2	320
18	13.5	19.8	720
24	18.0	26.4	1280

Sensitive Coil - Light and Medium duty versions only

Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Resistance Ohm ± 10%
3	2.25	3.3	45
5	3.75	5.5	125
6	4.5	6.6	180
9	6.75	9.9	405
12	9.0	13.2	720
18	13.5	19.8	1620
24	18.0	26.4	2880

ORDERING DATA

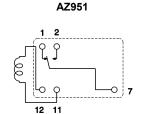


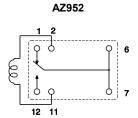
Example ordering data

AZ951-1C-5DE AZ951, Light duty, 5 VDC coil voltage, standard coil
AZ952-1CM-12DSE AZ952, Medium duty, 12 VDC coil voltage, sensitive coil
AZ952-1CH-24DE AZ952, Heavy duty, 24 VDC coil voltage, standard coil

WIRING DIAGRAMS

Viewed towards terminals.





DISCLAIMER

This product specification is to be used in conjunction with the application notes which can be downloaded from

www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf

The specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.

ZETTLER electronics GmbH - A ZETTLER GROUP Company

Junkersstr. 3, D-82178 Puchheim, Germany

phone: +49 89 800 97-0 fax: +49 89 800 97-200

office@ZETTLERelectronics.com www.ZETTLERelectronics.com

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