AZ761_

12 A SPDT MINIATURE POWER RELAY

FEATURES

- Dielectric strength 5000 Vrms
- Low cost
- Epoxy sealed version available
- 12 Amp switching
- Isolation spacing greater than 10 mm
- Reinforced insulation, EN 60730-1 (VDE 0631, part 1), EN 60335-1 (VDE 0700, part 1)
- UL, CUR file E44211
- VDE 40006031

CONTACTS

| Arrongement | SDDT (1 Form C) | | | | |
|-------------|--|--|--|--|--|
| Arrangement | SPDT (1 Form C) | | | | |
| | SPST (1 Form A, 1 Form B) | | | | |
| Ratings | Resistive load: | | | | |
| | Max. switched power: 360 W or 3324 VA Max. switched current: 12 A | | | | |
| | Max. switched voltage: 150 VDC* or 400 VAC | | | | |
| | * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory. | | | | |
| Rated Load | | | | | |
| UL, CUR | 12 A at 277 VAC resistive, 50k cycles (standard coils) [1] 12 A at 277 VAC resistive, 100k cycles (standard coils) [2] [3] 10 A at 250 VAC resistive, 100k cycles (sensitive coils) [1] $1/_2$ HP at 250 VAC (1 Form A) [1] $1/_3$ HP at 125 VAC (1 Form A) [1] B300 Pilot Duty [2] R300 Pilot Duty [2] | | | | |
| VDE | 12 A at 250 VAC resistive, [1] [2] and [3] | | | | |
| Material | Silver cadmium oxide [1] or silver tin oxide [2] or silver nickel [3]. Gold plating available | | | | |
| Resistance | < 50 milliohms initially | | | | |

COIL

| Power | | | |
|--|---|--|--|
| At Pickup Voltage (typical) | 196 mW, standard coil 141 mW, sensitive coil | | |
| Max. Continuous Dissipation | 1.7 W at 20°C (68°F) ambient | | |
| Temperature Rise (at nominal voltage) | 26°C (47°F) standard coil 17°C (31°F) sensitive coil | | |
| Max. Temperature | 130°C (266°F) | | |

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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GENERAL DATA

| Life Expectancy Mechanical Electrical | Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 12 A 250 VAC Res. | | |
|--|---|--|--|
| Operate Time (typical) | 7 ms at nominal coil voltage | | |
| Release Time (typical) | 3 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 | | |
| Insulation Resistance | 1000 megohms min. at 20°C 500 VDC 50% RH | | |
| Insulation (according to DIN VDE 0110, IEC 60664-1) | C250 Overvoltage category: III Pollution degree: 3 Nominal voltage: 250 VAC | | |
| Dropout | Greater than 10% of nominal coil voltage | | |
| Ambient Temperature Operating Storage | At nominal coil voltage -40°C (-40°F) to 85°C (185°F) standard -40°C (-40°F) to 105°C (221°F) sensitive -40°C (-40°F) to 105°C (221°F) | | |
| Vibration | 0.062" (1.5 mm) DA at 10–55 Hz | | |
| Shock | 10 g | | |
| 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 | 14 grams | | |
| Packing unit in pcs | 20 per plastic tube / 1000 per carton box | | |

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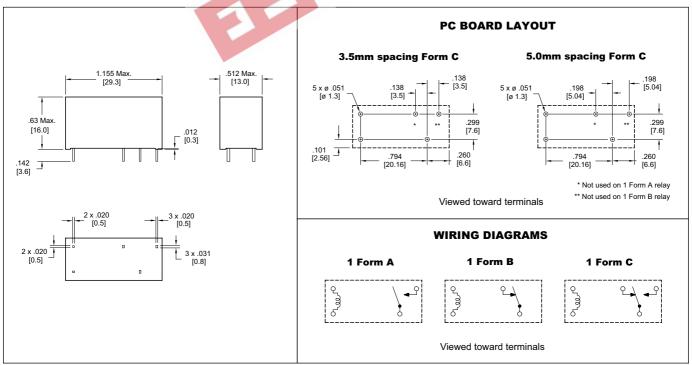
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RELAY ORDERING DATA

| COIL SPECIFICATIONS – 12 A RATING | | | | ORDER | NUMBER* |
|--|---|---|------------------------------|---------------|---------------|
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance Ohm ± 10% | 1 Form A | 1 Form C |
| 5 | 3.5 | 10.2 | 62 | AZ761–1A–5D | AZ761–1C–5D |
| 6 | 4.2 | 12.3 | 90 | AZ761–1A–6D | AZ761–1C–6D |
| 9 | 6.3 | 18.3 | 200 | AZ761–1A–9D | AZ761–1C–9D |
| 12 | 8.4 | 24.7 | 360 | AZ761–1A–12D | AZ761–1C–12D |
| 18 | 12.6 | 37.0 | 810 | AZ761–1A–18D | AZ761–1C–18D |
| 24 | 16.8 | 49.4 | 1,440 | AZ761–1A–24D | AZ761–1C–24D |
| 48 | 33.6 | 98.0 | 5,760 | AZ761–1A–48D | AZ761–1C–48D |
| 60 | 42.0 | 112.9 | 7,500 | AZ761–1A–60D | AZ761–1C–60D |
| 110 | 77.0 | 206.9 | 25,200 | AZ761–1A–110D | AZ761–1C–110D |
| COIL SPECIFICATIONS – SENSITIVE COIL - 10 A RATING | | | ORDER NUMBER* | | |
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance Ohm ± 10% | 1 Form A | 1 Form C |
| 5 | 3.8 | 13.0 | 100 | AZ761–1A–5DS | AZ761–1C–5DS |
| 6 | 4.5 | 15.6 | 144 | AZ761-1A-6DS | AZ761–1C–6DS |
| 12 | 9.0 | 31.3 | 576 | AZ761–1A–12DS | AZ761–1C–12DS |
| 18 | 13.5 | 46.9 | 1,296 | AZ761-1A-18DS | AZ761–1C–18DS |
| 24 | 18.0 | 62.6 | 2,304 | AZ761-1A-24DS | AZ761–1C–24DS |
| 48 | 36.0 | 125.2 | 9,216 | AZ761-1A-48DS | AZ761–1C–48DS |
| 60 | 45.0 | 147.8 | 12,867 | AZ761-1A-60DS | AZ761–1C–60DS |
| Substitute "1B" in p Add suffix "E" to "1/ Add suffix "B" to "1/ Add suffix "E" at the Add suffix "A" at the | e silver cadmium oxide o lace of "1A" for 1 Form A" or "1B" or "1C" for silv A" or "1B" or "1C" for silv e end of order number fo e end of order number fo | B contact. ver tin oxide contacts. ver nickel contacts. or sealed version. | | om.ch | |

Add suffix "A" at the end of order number for gold plated contacts. Add suffix "K" at the end of order number for 5 mm pin spacing version.

MECHANICAL DATA



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

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