# AZ7621P

## 16 A MINIATURE LATCHING POWER RELAY


### FEATURES

- Dielectric strength 5000 Vrms
- PC board mounting
- Epoxy sealed versions available
- 16 Amp switching
- UL, CUR E43203

### CONTACTS

| | |
|---|---|
| **Arrangement** | SPST (1 Form A) on N.O.<br>SPDT (1 Form C) |
| **Ratings** | Resistive load:<br>Max. switched power: 4000 VA<br>Max. switched current: 16A<br>Max. switched voltage: 440 VAC |
| **Rated Load**<br>**UL, CUR** | 16 A at 250 VAC resistive 50,000 cycles @ 85°C |
| **Material** | Silver tin oxide. Gold plating available. |
| **Resistance** | < 50 milliohms initially (using 6 V 1 A method) |

### COIL

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|---|---|
| **Power** | |
| **At Pickup Voltage (typical)** | 196 mW, (DC, standard) 1 coil<br>294 mW, (DC, standard) 2 coil<br>318mW with 24VDC coil |
| **Max. Continuous Dissipation** | 1.7 W at 20°C (68°F) ambient |
| **Temperature Rise** | 26°C (47°F) at nominal coil voltage |
| **Max. Temperature** | 105°C (221°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.

### GENERAL DATA

| | |
|---|---|
| **Life Expectancy**<br>**Mechanical**<br>**Electrical** | Minimum operations<br>$5 \times 10^6$<br>$5 \times 10^4$ at 16A 250 VDC RES. |
| **Operate Time (typical)** | ≤10 ms at nominal coil voltage |
| **Release Time (typical)** | ≤10 ms at nominal coil voltage |
| **Dielectric Strength**<br>**(at sea level for 1 min.)** | 5000 Vrms coil to contact<br>1000 Vrms between open contacts |
| **Insulation Resistance** | 1000 megohms min. at 20°C<br>500 VDC 50% RH |
| **Ambient Temperature**<br>**Operating**<br>**Storage** | At nominal coil voltage<br>-40°C (-40°F) to 85°C (185°F)<br>-40°C (-40°F) to 105°C (221°F) |
| **Vibration** | 10Hz-55Hz double amplitude 1.55mm |
| **Shock** | $98 m/s^2$ 11ms |
| **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** | 13 grams |

**Caution:** When latching relays are installed in equipment, the latch and reset coil should not be powered simultaneously. Coil should not be pulsed with less than the nominal coil voltage and pulse width should be a minimum of three times the specified operate time of the relay. If these conditions are not followed, it is possible for the relay to be in the magnetically neutral position.

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## RELAY ORDERING DATA

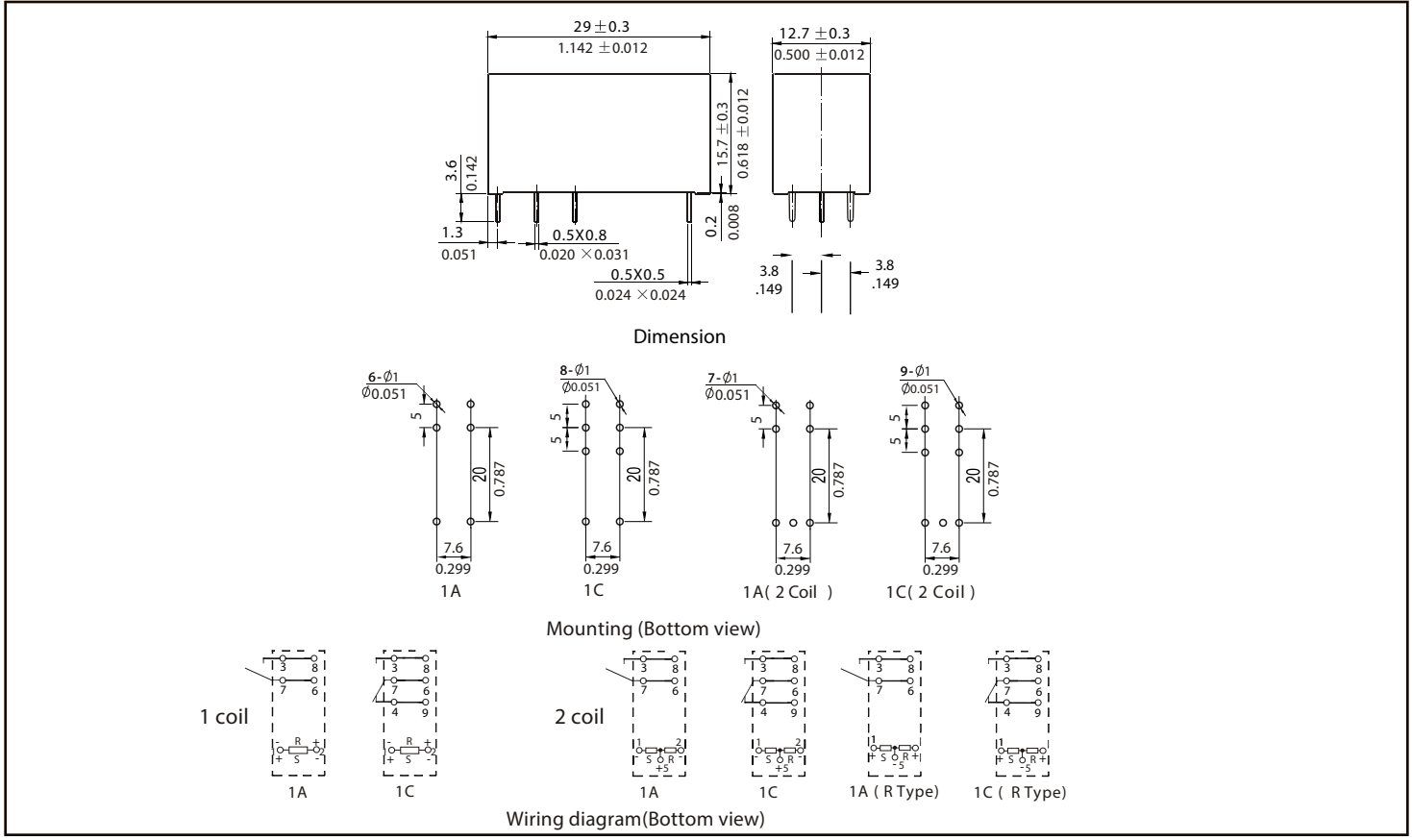
| COIL SPECIFICATIONS – SINGLE COIL LATCHING | | | ORDER NUMBER* | |
|---|---|---|---|---|
| Nominal Coil VDC | Set / Reset Voltage VDC | Coil Resistance ± 10% | Unsealed | Sealed |
| 5 | 3.5 | 35.7 | AZ7621P1–1C-5D | AZ7621P1–1C-5DE |
| 6 | 4.2 | 51.4 | AZ7621P1–1C-6D | AZ7621P1–1C-6DE |
| 9 | 6.3 | 116 | AZ7621P1–1C-9D | AZ7621P1–1C-9DE |
| 12 | 8.4 | 206 | AZ7621P1–1C-12D | AZ7621P1–1C-12DE |
| 24 | 16.8 | 820 | AZ7621P1–1C-24D | AZ7621P1–1C-24DE |

* Substitute “1A” in place of “1C” for Form A respectively. Add suffix “A” for gold plated contacts.

| COIL SPECIFICATIONS – DUAL COIL LATCHING | | | ORDER NUMBER* | |
|---|---|---|---|---|
| Nominal Coil VDC | Set / Reset Voltage VDC | Coil Resistance ± 10% | Unsealed | Sealed |
| 5 | 3.5 | 2 X 25 | AZ7621P2–1C-5D | AZ7621P2–1C-5DE |
| 6 | 4.2 | 2 X 36 | AZ7621P2–1C-6D | AZ7621P2–1C-6DE |
| 9 | 6.3 | 2 X 81 | AZ7621P2–1C-9D | AZ7621P2–1C-9DE |
| 12 | 8.4 | 2 X 144 | AZ7621P2–1C-12D | AZ7621P2–1C-12DE |
| 24 | 16.8 | 2 X 576 | AZ7621P2–1C-24D | AZ7621P2–1C-24DE |

* Substitute “1A” in place of “1C” for Form A respectively. Add suffix "R" for reverse polarity. Add suffix “A” for gold plated contacts.

## DIMENSIONS




NOTES 1). Dimensions are in millimeters and inches. Tolerance: ± .010”
2). Inch equivalents are given for general information only.