AZ9731_

40 AMP MINI-ISO AUTOMOTIVE RELAY

FEATURES

- Quick connect terminals
- 40 Amp contact rating
- High operating temperature (125°C)
- Epoxy sealed versions available
- Plastic or steel mounting bracket available
- Resistor or diode parallel to coil available
- ISO/TS 16949, ISO14001



GENERAL DATA

| Life Expectancy Mechanical Electrical | Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 40A, 14VDC Res. | |
|--|---|--|
| Operate Time (max.) | 7ms at nominal coil voltage | |
| Release Time (max.) | 5ms at nominal coil voltage | |
| Dielectric Strength (at sea level for 1 min.) | 500Vrms coil to contact 500Vrms contact to contact | |
| Insulation Resistance | 100 megohms min. at 500VDC, 20°C 50% RH | |
| Dropout | Greater than 15% of nominal coil voltage | |
| Ambient Temperature Operating Storage | -40°C (-40°F) to 125°C (257°F) -55°C (-67°F) to 155°C (311°F) | |
| Vibration | 0.062" DA at 10-40 Hz | |
| Shock | 15g | |
| Enclosure | P.B.T. polyester | |
| Terminals | Tinned copper alloy 0.25 Quick Connect Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force. | |
| Weight | 31 grams | |

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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CONTACTS

| Arrangement | SPST (1 Form A) SPDT (1 Form C) SPST NO DM (1 Form U) SPST (1 Form A2) | | |
|-------------|--|--|--|
| Ratings | Resistive load: | | |
| | Max. switched power: 630W (SPST) 630W (N.O.) 473W (N.C.) | | |
| | Max. switched current: 40A (SPST) 40A (N.O.) 30A (N.C.) | | |
| | Max. switched voltage: 75VDC | | |
| Material | Silver tin oxide | | |
| Resistance | < 100 milliohms initially (6V, 1A voltage drop method) | | |

COIL

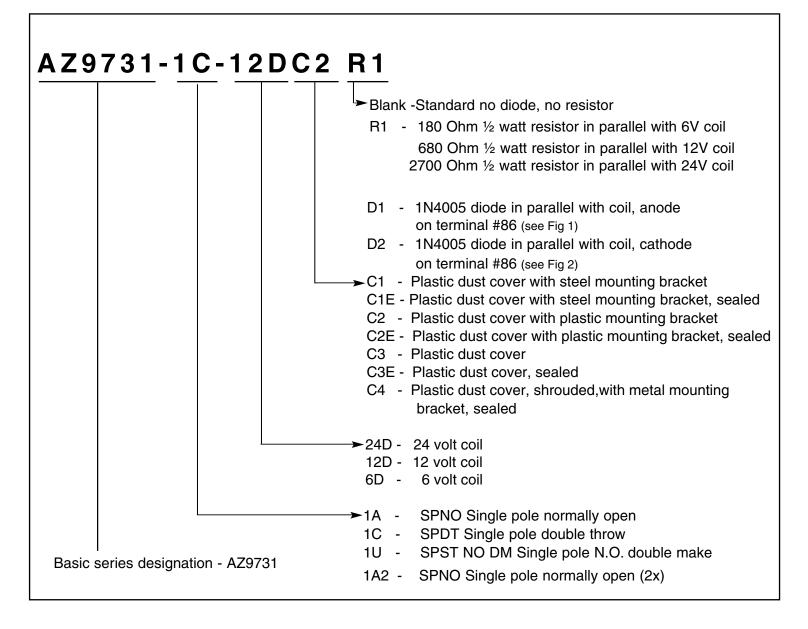
| Power | |
|--------------------------------|--|
| At Pickup Voltage (typical) | 0.68W |
| Max. Continuous Dissipation | 4.8W at 20°C (68°F) |
| Temperature Rise | 75°C (135°F) at nominal coil voltage (40A) |
| Temperature | Max. 125°C (257°F) |

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RELAY ORDERING DATA

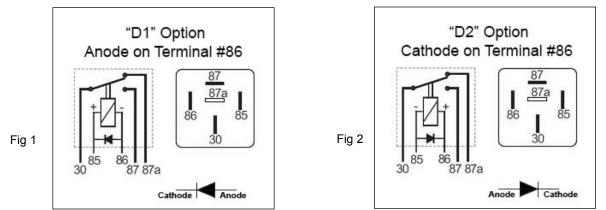
| COIL SPECIFICATIONS | | | | | |
|---------------------|---------------------|------------------------|-------------------------------|--|--|
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance Ohms ± 10% | | |
| 6 | 3.9 | 7.8 | 22.5 | | |
| 12 | 7.8 | 15.6 | 90 | | |
| 24 | 15.6 | 31.2 | 360 | | |

RELAY ORDERING DATA

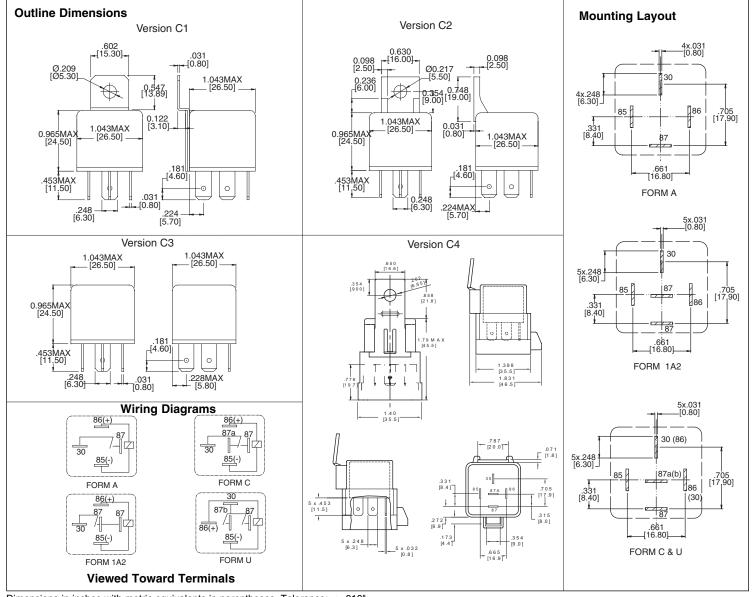


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MECHANICAL DATA



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

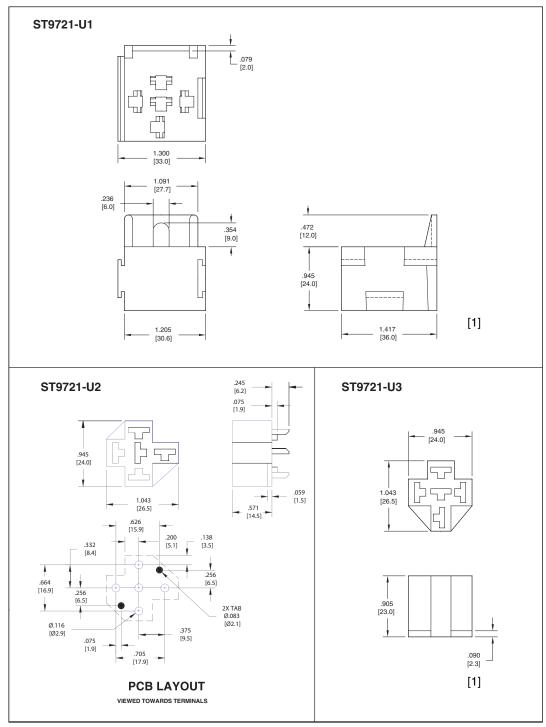
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Sockets & Hardware for AZ9731



[1] Recommended receptical connector Amp Part numbers are 5-160558-9 or 5-1605-26-9



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