AZ9731T_

50 AMP MINI-ISO AUTOMOTIVE RELAY

FEATURES

- Quick connect terminals
- 50 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
- Suitable for automobile and lamp accessory applications



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: 700W Max. switched current: 50 A (N.O.) 40 A (N.C.) Max. switched voltage: 75 VDC 1 Form A: 50A at 14VDC 1 Form C: 50A/40A at 14VDC (N.O./N.C.) 1 Form U: 2 x 25A at 14VDC |
| Material | Silver tin oxide |
| Resistance | < 100 milliohms initially (6 V, 1 A voltage drop method) |

COIL

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

GENERAL DATA

| Life Expectancy Mechanical Electrical | Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 50 A, 14VDC Res. | |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--|
| Operate Time (max.) | 7 ms at nominal coil voltage | |
| Release Time (max.) | 5 ms at nominal coil voltage | |
| Dielectric Strength (at sea level for 1 min.) | 750 Vrms coil to contact 500 Vrms contact to contact | |
| Insulation Resistance | 100 megohms min. at 500 VDC, 20°C 50% RH | |
| Dropout | Greater than 10% of nominal coil voltage | |
| Ambient Temperature Operating | -40°C (-40°F) to 125°C (257°F) | |
| Vibration | 0.059" DA at 10-40 Hz | |
| Shock | 15 g | |
| 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.

AMERICAN ZETTLER, INC.

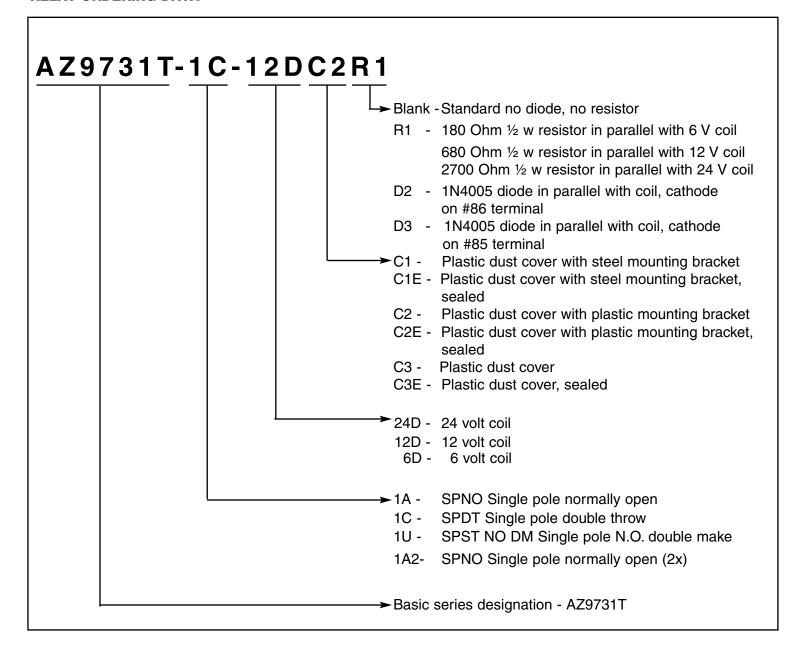
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RELAY ORDERING DATA

| COIL SPECIFICATIONS | | | | | |
|---------------------|---------------------|------------------------|--------------------------|--|--|
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance ± 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

