AZ9701/AZ9711

45 AMP AUTOMOTIVE RELAY

FEATURES

- Up to 45 Amp switching capability in a compact size
- Epoxy sealed versions available
- Coils to 24 VDC
- Small footprint
- 1 Form A and C contacts available
- Vibration and shock resistant
- ISO/TS 16949, ISO9001, ISO14000
- Tested in accordance with SAE J2544
- Cost effective
- Designed for high in-rush applications
- UL,CUR file E43203

CONTACTS

| Arrangement | SPST (1 Form A) SPDT (1 Form C) | | | | | | |
|-------------|---|--|--|--|--|--|--|
| Ratings | Resistive load: | | | | | | |
| | Max. switched power: Form A: 630 W Form C: 630 W/420W N.O./N.C. | | | | | | |
| | Max. switched current: Form A: 45 A Form C: 45 A/30A N.O./N.C. | | | | | | |
| | Max. switched voltage: 150* VDC | | | | | | |
| | Max. carry current: 60 A | | | | | | |
| | * If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory. | | | | | | |
| UL, CUR | 45A at 14VDC res. 10k cycles (1Form A) | | | | | | |
| Material | Silver tin oxide | | | | | | |
| Resistance | < 100 milliohms initially (24 V, 1 A voltage drop method) | | | | | | |

COIL

| Power | |
|--------------------------------|---|
| At Pickup Voltage (typical) | 484-573 mW standard coil 675 mW sensitive coil |
| Max. Continuous Dissipation | 4.2W 20°C (68°F) ambient |
| Temperature Rise | 50°C (90°F) nominal coil VDC |
| Max. Temperature | 155°C (311°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 Mechanical Electrical | Minimum operations 5 x 10 ⁶ operations 1 x 10 ⁵ 40 A 14 VDC Res. | | | | |
|--|---|--|--|--|--|
| Operate Time (typical) | 5 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.) | 500 VDC coil to contact 500 VDC between open contacts | | | | |
| Insulation Resistance | 100 megohms min. at 20°C (68°F), 500 VDC, 50% RH | | | | |
| Dropout | Greater than 6% of nominal coil voltage | | | | |
| Ambient Temperature | At nominal coil voltage | | | | |
| Operating Storage | -40°C (-40°F) to 135°C (275°F) -40°C (-40°F) to 155°C (311°F)) | | | | |
| Vibration | 10-40 Hz – 1.27 mm DA 40-70 Hz – 50 m/s ² 70-100 HZ – 0.5 mm DA 100-500 Hz – 100 m/s ² | | | | |
| Shock | 20 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 | 20 grams | | | | |



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RELAY ORDERING DATA - STANDARD COIL

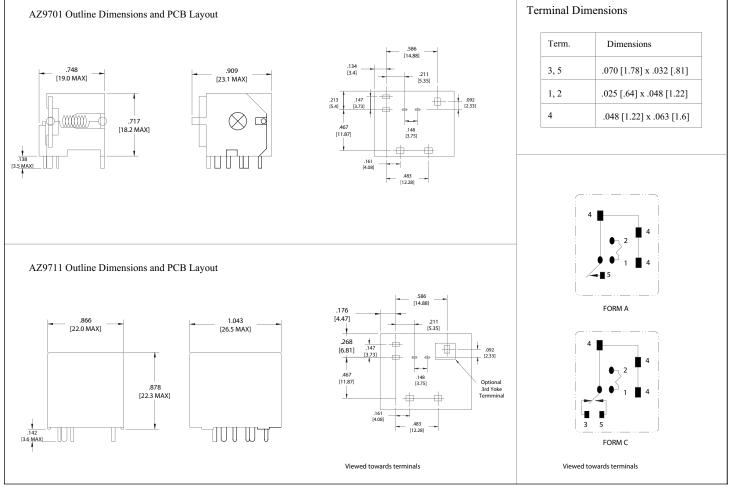
| COIL SPECIFICATIONS | | | | ORDE | R NUMBER | | |
|---------------------|---------------------|------------------------|-------------------------|----------------|----------------|-----------------|-----------------|
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance ±10% | Open | | Sealed* | |
| 6 | 3.3 | 9.0 | 19.0 | AZ9701–1A–6DT | AZ9701–1C–6DT | AZ9711–1A–6DET | AZ9711-1C-6DET |
| 9 | 5.1 | 14.7 | 51.0 | AZ9701-1A-9DT | AZ9701-1C-9DT | AZ9711–1A–9DET | AZ9711–1C–9DET |
| 12 | 6.8 | 19.6 | 90.0 | AZ9701-1A-12DT | AZ9701-1C-12DT | AZ9711–1A–12DET | AZ9711-1C-12DET |
| 24 | 13.9 | 39.3 | 362.0 | AZ9701-1A-24DT | AZ9701-1C-24DT | AZ9711–1A–24DET | AZ9711–1C–24DET |

RELAY ORDERING DATA - SENSITIVE COIL

| COIL SPECIFICATIONS | | | ORDER NUMBER | | | | |
|---------------------|---------------------|------------------------|-------------------------|-----------------|-----------------|------------------|------------------|
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance ±10% | Open | | Sealed* | |
| 6 | 4.5 | 11.3 | 30.0 | AZ9701–1A–6DST | AZ9701-1C-6DST | AZ9711–1A–6DSET | AZ9711–1C–6DSET |
| 9 | 6.8 | 17.0 | 68.0 | AZ9701–1A–9DST | AZ9701-1C-9DST | AZ9711–1A–9DSET | AZ9711–1C–9DSET |
| 12 | 9.0 | 22.6 | 120.0 | AZ9701–1A–12DST | AZ9701-1C-12DST | AZ9711–1A–12DSET | AZ9711-1C-12DSET |
| 24 | 19.2 | 45.2 | 480.0 | AZ9701–1A–24DST | AZ9701-1C-24DST | AZ9711–1A–24DSET | AZ9711-1C-24DSET |

*Add suffix "K" to add third yoke pin.

MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: ±0.010"



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