AZ9891H___

25 AMP SUB-MICRO TWIN H-BRIDGE AUTOMOTIVE RELAY

FEATURES

- Up to 25 Amp switching capability in a very compact size
- Vibration and shock resistant
- Designed for power windows, door locks and wiper motors, seat adjusters, and more
- Epoxy sealed for automatic wave soldering
- ISO/TS 16949, ISO14001
- Cost effective
- Dual (Twin) H-Bridge relay

CONTACTS

| Arrangement | DPDT (2 Form C) (Twin) H-Bridge | | |
|-------------|--|--|--|
| Ratings | Resistive load: | | |
| | Max. switched power: 400 W Max. switched current: 25 A Max. switched voltage: 16 VDC Rated load: 25 A at 14 VDC, locked motor | | |
| Material | Silver tin oxide | | |
| Resistance | < 25 milliohms initially (6 V, 1 A voltage drop method) | | |

COIL

| Power | | | |
|--------------------------------|--|--|--|
| At Pickup Voltage (typical) | 230 mW | | |
| Max. Continuous Dissipation | 2.2 W at 20°C (68°F) ambient | | |
| Temperature Rise | 40°C (7 <mark>2°F</mark>) at nominal coil voltage | | |
| 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

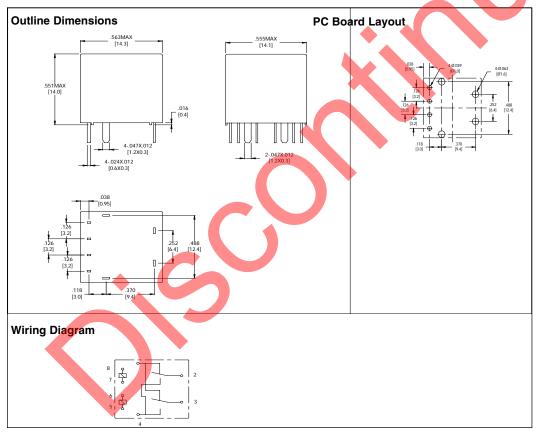
| Life Expectancy Mechanical Electrical | Minimum operations 1 x 10 ⁶ 1 x 10 ⁵ at 25 A 14 VDC locked motor | | |
|---|--|--|--|
| Operate Time | 3 ms typical at nominal coil voltage | | |
| Release Time | 1.5 ms typical at nominal coil voltage (with no coil suppression) | | |
| Dielectric Strength (at sea level for 1 min.) | 500 VAC coil to contact 500 VAC between open contacts | | |
| Insulation Resistance | 100 megohms min. at 20°C, 500 VDC 50% RH | | |
| Dropout | Greater than 8.3% of nominal coil voltage | | |
| Ambient Temperature Operating Storage | At nominal coil voltage -40°C (-40°F) to 105°C (221°F) -40°C (-40°F) to 155°C (311°F) | | |
| Vibration | 4.5g at 10-500 Hz | | |
| Shock | 10g operational, 100g destructive | | |
| 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 | 7.5 grams | | |

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RELAY ORDERING DATA

| STANDARD RELAYS - 2 Form C (Twin) | | | | | | |
|-----------------------------------|------------------|------------------------|-----------------------|------------------|--|--|
| COIL SPECIFICATIONS ORDER NUMBER | | | | | | |
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance ± 10% | 2 Form C (DPDT) | | |
| 12 | 6.5 | 18.0 | 180 | AZ9891H-2C-12DE | | |
| 12 | 7.2 | 20.0 | 225 | AZ9891H-2C-12DSE | | |

MECHANICAL DATA



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