AZ947_

20 AMP SUBMINIATURE PCB POWER RELAY FOR AUTOMOTIVE USE

FEATURES

- Low cost
- 20 Amp contact rating
- Low profile, small footprint
- High operating temperature (85°C)
- SPST (1 Form A), SPDT (1 Form C)



CONTACTS

| Arrangement | SPST (1 Form A) SPDT (1 Form C) | | |
|-------------|--|--|--|
| Ratings | Resistive load: Max. switched power: 280 W, 1250 VA Max. switched voltage: 50 VDC, 125 VAC 20 A at 14 VDC Res. (make) 15 A at 14 VDC Res. (break). | | |
| Material | Silver tin oxide | | |
| Resistance | < 50 milliohms initially (6 V, 1 A voltage drop method) | | |

COIL

| Power | | | |
|--------------------------------|-------------------------------------|--|--|
| At Pickup Voltage (typical) | 222 mW | | |
| Max. Continuous Dissipation | 1.09 W at 20°C (68°F) ambient | | |
| Temperature Rise | 44°C (79°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 | Minimum operations | | |
|---------------------------|--|--|--|
| Mechanical | 1 x 10 ⁷ | | |
| Electrical | 1 x 10 ⁵ at 20 A 14 VDC Res. | | |
| Operate Time (max.) | 10 ms max. at nominal coil voltage | | |
| Release Time (max.) | 5 ms max. at nominal coil voltage (with no coil suppression) | | |
| | (with no coil suppression) | | |
| Dielectric Strength | 500 VAC coil to contact | | |
| (at sea level for 1 min.) | 500 VAC between open contacts | | |
| Insulation Resistance | 100 megohms min. at 20°C, 500 VDC | | |
| | 50% RH | | |
| Dropout | Greater than 5% of nominal coil voltage | | |
| Ambient Temperature | At nominal coil voltage | | |
| Operating | -40°C (-40°F) to 85°C (185°F) | | |
| Storage | -40°C (-40°F) to 105°C (221°F) | | |
| Vibration | 0.062" (1.5 mm) DA at 10-55 Hz | | |
| Shock | 10 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 | 6 grams | | |
| | | | |

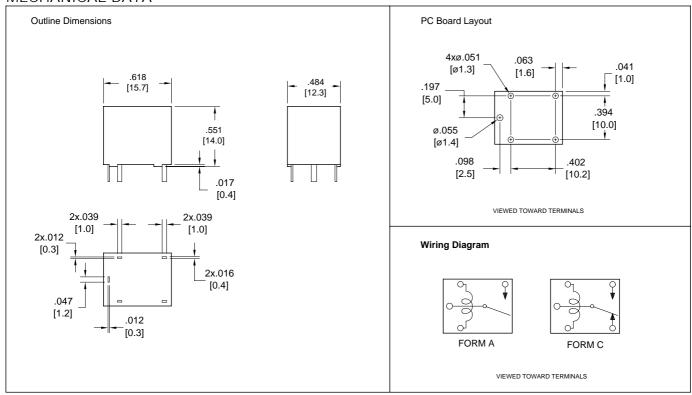
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RELAY ORDERING DATA

| COIL SPECIFICATIONS | | | | ORDER NUMBER* | |
|---------------------|---------------------|------------------------|-----------------------|---------------|--------------|
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance ± 10% | SPST | SPDT |
| 6 | 3.6 | 8.1 | 60 | AZ947-1A-6D | AZ947-1C-6D |
| 9 | 5.4 | 12.2 | 135 | AZ947-1A-9D | AZ947-1C-9D |
| 12 | 7.3 | 16.2 | 240 | AZ947-1A-12D | AZ947-1C-12D |
| 24 | 14.4 | 32.5 | 960 | AZ947-1A-24D | AZ947-1C-24D |

^{*} Add suffix "E" for epoxy sealed version.

MECHANICAL DATA



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