



3100U 00031448



3100 Series Hermetic Thermostats

Actual product appearance may vary.

Features

- Hermetically sealed
- Tight tolerances
- Tight differentials

Potential

Applications

- Computers
- Medical electronics
- Power supplies
- Industrial controls
- Test equipment
- Infotech

Description

The 3100 Series consists of a single pole, single throw switch activated by a snap-action bimetal disc. Temperature calibrations are pre-set at the factory and each unit is 100% thermally and mechanically inspected. It is available to open or close on temperature rise. The case is laser welded to form a hermetically-sealed steel housing with a glass-to-metal seal at the terminal junction. It is manufactured and tested to meet or exceed critical commercial and industrial specifications.

| Product Specifications | |
|------------------------------|--|
| Functional Properties | Open on rise |
| Reset Type | Automatic |
| Amperage | 3 A resistive max. |
| Voltage | 120 Vac |
| Operating Temperature Range | -29 °C to 260 °C [-20 °F to 500 °F] |
| Environmental Exposure Range | -62 °C to 288 °C [-80 °F to 550 °F] |
| Open Temperature | 98.9 °C [210 °F] |
| Close Temperature | 85.0 °C [185 °F] |
| Open Tolerance | 2.8 °C [5 °F] |
| Close Tolerance | 2.8 °C [5 °F] |
| Dielectric Strength | MIL-STD-202, Method 301; 1250 Vac 60 Hz - Terminal to Case |

| | |
|-----------------------|---|
| Insulation Resistance | MIL-STD-202, Method 302; 50 MOhm |
| Contact Resistance | MIL-STD-202, Method 307; 0.050 Ohm max. |
| Hermetic Seal | MIL-STD-202, Method 112; Cond. 1×10^{-5} |
| Moisture Resistance | MIL-STD-202, Method 106 |
| Housing Material | Steel housing hermetically sealed with glass-to-metal seal at terminal junction |
| Contact Material | Silver |
| Approvals | UL |
| Mounting | B209 fixed bracket |
| Series Name | 3100U |