



3100U 00031457

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	Close 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	26.7 °C [80 °F]
Close Temperature	37.8 °C [100 °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