

3100U 00031445

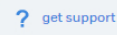
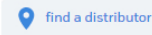
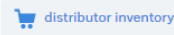
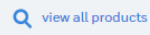
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Overview

3100 Series Hermetic Thermostats.

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.

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Technical Specifications

Functional Properties	Open on rise
Operating Temperature	-29 °C to 260 °C [-20 °F to 500 °F]
Voltage	120 Vac
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
Contact Resistance	MIL-STD-202, Method 307; 0.050 Ohm max.
Moisture Resistance	MIL-STD-202, Method 106
Housing Material	Steel housing hermetically sealed with glass-to-metal seal at terminal junction
Mounting	B209 fixed bracket
Series Name	3100U

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Reset Type	Automatic
Amperage	3 A resistive max.
Open Temperature	82.2 °C [180 °F]
Close Temperature	71.1 °C [160 °F]
Environmental Exposure Range	-62 °C to 288 °C [-80 °F to 550 °F]
Insulation Resistance	MIL-STD-202, Method 302; 50 MOhm
Hermetic Seal	MIL-STD-202, Method 112; Cond. 1x10-5
Shock	N/A
Contact Material	Silver
Agency Approvals and Standards	UL

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Documents

TITLE	DOCUMENT TYPE	LANGUAGE	SIZE
Precision and High Reliability Thermostats	Datasheet	--	4MB
Thermostats Line Guide	Product Line Guide	English	444KB
Thermal Sensors	Product Range Guide	English	12MB

Product Features

- Hermetically sealed
- Tight tolerances
- Tight differentials

Applications

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

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