

## Honeywell Sensing and Control



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### 3100U 00031436

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*Actual product appearance may vary.*

#### 3100 Series Hermetic Thermostats

#### 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.

#### Supporting Documentation

None Available

| Product Specifications       |   |
|------------------------------|---|
| Functional Properties        | Open on rise  |
| Reset Type                   | Automatic   |
| Amperage                     | 3 A resistive max.  |
| Voltage                      | 120 Vac   |
| Operating Temperature        | -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             | 32.2 °C [90 °F]   |
| Close Temperature            | 21.1 °C [70 °F]   |
| Open Tolerance               | 2.8 °C [5 °F]   |
| Close Tolerance              | 2.8 °C [5 °F]   |
| Dielectric Strength          | MIL-STD-202, Method 301; 1250 Vac<br>60 Hz - Terminal to Case |
| Insulation Resistance        | MIL-STD-202, Method 302; 50 MOhm                              |

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|                                |   |
|--------------------------------|---|
| Contact Resistance             | MIL-STD-202, Method 307; 0.050 Ohm max.   |
| Hermetic Seal                  | MIL-STD-202, Method 112; Cond. 1x10 <sup>-5</sup>                               |
| Moisture Resistance            | MIL-STD-202, Method 106   |
| Housing Material               | Steel housing hermetically sealed with glass-to-metal seal at terminal junction |
| Contact Material               | Silver  |
| Agency Approvals and Standards | UL  |
| Mounting                       | B209 fixed bracket  |
| Series Name                    | 3100U   |

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