

PTC Thermistors

Climatic conditions

Date: April 2026

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Operating temperature range

The permissible operating temperature ranges are specified in the data sheets. Here, a difference is made between the permissible temperature ranges for loaded and for unloaded PTC thermistors.

The operating temperature ranges for $V = 0$ correspond to the lower category temperature LCT and the upper category temperature UCT as per EN 60738-1. Under load the power dissipation of a PTC thermistor depends on the heat removal conditions. To prevent electrical overload the temperature has to be kept within the specified range.