

# Definition of Terms

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## ● Rated Functioning Temperature (Tf)

Rated functioning temperature is the operating temperature of thermal cutoff, measured using the method specified in the safety standard. In the current Electrical Appliance and Material Safety Law of Japan (PSE), the operation should be within the specified operating temperature range of  $\pm 7$  °C. In various safety standards such as the UL, CSA, VDE, BEAB and CCC, which comply with the IEC standard, it is called the rated functioning temperature and should operate within the prescribed temperature range of  $+0/-10$  °C.

It is represented by the symbol Tf in the UL, CSA, VDE, BEAB and CCC standards.

The rated functioning temperature of the thermal cutoff complies with both standards and is indicated on the body of the thermal cutoff.

## ● Operating Temperature

Operating temperature is the actual operating temperature range in which the thermal cutoff operates at, when placed inside a constant temperature oven that is increasing at a rate of 0.5 to 1°C/min, with a detection current of 10mA or lower is applied.

The operating temperature is a standard set by NEC SCHOTT and is not specified by any safety standard body.

## ● Holding Temperature (Th)

Holding temperature is the maximum temperature at which a thermal cutoff continues to conduct a rated current for 168 hours without changing its state of conductivity.

It is represented by the symbol Th in the UL, CSA, VDE, BEAB and CCC safety standards.

## ● Maximum Temperature Limit (Tm)

Maximum temperature limit is the temperature up to which the mechanical and electrical characteristics of the thermal cutoff, having change its state of conductivity, will not be impaired during specified time.

It is represented by the symbol Tm in the UL, CSA, VDE, BEAB and CCC safety standards.

Definitions from the NEC/SCHOTT Thermal Cutoff catalog.