

ELCUT brand Technical Terms

Functioning Temperature

The temperature at which the thermal cutoff opens (fuses off) while passing 0.1 amp or less in a controlled oil bath at a rise of 1°C per minute. The functioning temperature is not the Rated Functioning Temperature.

Rated Functioning Temperature (Tf)

Rating of the functioning temperature based on safety standards. Tolerance of Rated functioning temperature is +0,-10°C for IEC 60691. Tolerance for METI is ±7°C except some types. ELCUT Thermal Cutoffs are rated to satisfy those requirements.

Holding Temperature (Th or Tc)

The highest temperature of the thermal cutoff at which it will not open the circuit for 168 hours while passing rated current. (Applicable to UL, CSA, cUL and CCC)

Maximum Temperature Limit (Tm)

The highest temperature at which continuity does not occur for 10 minutes after the function of the thermal cutoff.

Rated Current (Ir)

The allowable maximum current, which the thermal cutoff is able to carry.

Rated Voltage (Ur or Vr)

The allowable maximum voltage, which the thermal cutoff is able to be applied.

Maximum Use Temperature/Normal Use Temperature

Maximum allowable normal use temperature

Definitions from Uchihashi Estec catalogs.