▶ THDi

The Harmonics produced by the non-linear loads determined a deformation of the transient current, which is no longer purely sinusoidal but is hence distorted. The Factor that takes measures the current deformation is the THDi, which is evaluated according to the ratio between the effective value of the harmonic content and the effective value of the fundamental I_1 and which is expressed as follows:

$$THDi = 100 \cdot \frac{\sqrt{\sum_{k=2}^{\infty} I_k^2}}{I_1} \quad \%$$