## TELEGROUP

## **THDv**

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 and results in the birth in the upstream network of a non-sinusoidal voltage drop. All loads including linear loads (zero harmonic contribution) will be fed by a distorted voltage. The Factor that takes measures the voltage deformation is the THDv, which is evaluated according to the ratio between the effective value of the harmonic content and the effective value of the fundamental  $V_1$  and which is expressed as follows:

$$THDv = 100 \cdot \frac{\sqrt{\sum_{k=2}^{\infty} V_k^2}}{V_1}$$
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