



IEEE Standard for Practices and Requirements for Semiconductor Power Rectifier Transformers

Amendment 1: Added Technical and Editorial Corrections

IEEE Power Engineering Society

Sponsored by the
Transformers Committee

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Abstract: This standard practice provides rating data, construction requirements, testing and calculation methods for dry-type or liquid-filled semiconductor power rectifier transformers. These transformers supply nonsinusoidal load currents and are subject to higher harmonic load losses than standard power transformers. A number of examples illustrating harmonic loss calculations are presented in a reference annex.

Keywords: commutating impedance, harmonic current, harmonic load losses, harmonic loss factor, harmonics, nonsinusoidal load, rectifier transformers

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