

IEEE Standard General Requirements for Dry-Type Distribution and Power Transformers Including Those With Solid Cast and/or Resin-Encapsulated Windings

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**IEEE Standard General Requirements for
Dry-Type Distribution and Power
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Sponsor
**Transformers Committee
of the
IEEE Power Engineering Society**

Approved February 2, 1989
IEEE Standards Board

Co-Secretariat
**Institute of Electrical and Electronics Engineers
National Electrical Manufacturers Association**

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Foreword

(This Foreword is not a part of IEEE C57.12.01-1989, IEEE Standard General Requirements for Dry-Type Distribution and Power Transformers Including Those With Solid Cast and/or Resin-Encapsulated Windings.)

This standard, together with its companion standards documents, represents a new milestone in standards for dry-type transformers, which are becoming increasingly important with the elimination of askarel insulating fluids in new transformers.

This standard is the result of an effort encompassing the interests of users, manufacturers, and others dedicated to producing voluntary consensus standards primarily for dry-type transformers.

This revision was developed to recognize dry-type transformers with solid cast and resin-encapsulated windings. The working group that developed this revision identified requirements for IEEE C57.12.01-1989 for items 3.1 through 5.10, 5.12, and 6.52, incorporating dry-type transformers with solid cast and resin-encapsulated windings. New materials and coil design techniques necessitated this revision to recognize factors that differ from conventional design of dry-type transformers.

In preparing the revision of IEEE C57.12.01-1979, the working group has attempted to consider the significance of the General Agreement on Tariffs and Trade (GATT) Code and the U.S. Trade Agreements Act of 1979, which have appeared since the C57.12.01 standard was originally published. These documents encourage "harmonization" of U.S. Standards with International Standards such as IEC and ISO. Progress has been made in this direction, and further study and effort are planned toward improved harmonization of such items as "Hottest-Spot Increments," and the correlation of calculated and tested values of "Hottest Spot-Increments."

This revision was developed by the working group of the Dry-Type Transformer Subcommittee of the IEEE Transformer Committee of the IEEE Power Engineering Society.

This standard is a voluntary consensus standard. Its use may become mandatory only when required by a duly constituted legal authority, or when specified in a contractual relationship. To meet specialized needs and to allow innovation, specific changes are permissible when mutually determined by the user and the producer, provided such changes do not violate existing laws and are considered technically adequate for the function intended.

At the time this document was published, it was under consideration for approval as an American National Standard. The Accredited Standards Committee on Transformers, Regulators, and Reactors, C57, had the following members at the time this document was sent to letter ballot:

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