

IEEE Standard for Transformers— Underground-Type, Self-Cooled, Single-Phase Distribution Transformers With Separable, Insulated, High-Voltage Connectors; High Voltage (24 940 GrdY/14 400 V and Below) and Low Voltage (240/120 V, 167 kVA and Smaller)

Sponsor
**Transformers Committee
of the
IEEE Power Engineering Society**

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Abstract: Electrical, dimensional, and mechanical characteristics and certain safety features of single-phase, 60 Hz, mineral-oil-immersed, self-cooled, distribution transformers with separable insulated high-voltage connectors are covered. Ratings, testing, and construction are discussed. These transformers are generally used for step-down purposes from an underground primary cable supply and are suitable for occasional submerged operation. The intent is to provide a basis for determining their performance, interchangeability, and safety, and for their selection. This standard does not cover the electrical and mechanical requirements of accessory devices that may be supplied with the transformer.

Keywords: distribution, interchangeability, performance, safety, transformers

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Foreword

(This foreword is not a part of IEEE Std C57.12.23-1992, IEEE Standard for Transformers—Underground-Type, Self-Cooled, Single-Phase Distribution Transformers With Separable, Insulated, High-Voltage Connectors; High Voltage [24 940 GrdY/14 400 V and Below] and Low Voltage [240/120 V, 167 kVA and Smaller].)

The Accredited Standards Committee on Transformers, Regulators, and Reactors, C57, has for a number of years been developing and correlating standards on transformers and regulators. The data used in this work has been gathered from many sources, including the standards of the Institute of Electrical and Electronics Engineers and the National Electrical Manufacturers Association, reports of committees of the Edison Electric Institute, and others.

This standard was prepared by the Working Group of the Subcommittee on Distribution Transformers, Overhead and Pad-Mounted, C57.12.2, and is a revision of the 1986 edition. Added to this revision are sections on storage and installation with emphasis being placed on the actual position when stored and the consideration of the angle of tilt when installed.

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