

C57.12.34TM



IEEE Standard for Requirements for Pad-Mounted, Compartmental-Type, Self-Cooled, Three-Phase Distribution Transformers, 5 MVA and Smaller; High Voltage, 34.5 kV Nominal System Voltage and Below; Low Voltage, 15 kV Nominal System Voltage and Below

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Abstract: Certain electrical, dimensional, and mechanical characteristics are set forth as well as certain safety features of three-phase, 60 Hz, mineral-oil-immersed, self-cooled, pad-mounted, compartmental-type distribution transformers. These transformers are rated 5 MVA and smaller, with the high-voltage limit of 34.5 kV system nominal voltage and below, and with low-voltage limit of 15 kV system nominal voltage and below. The connector, bushing, and terminal arrangements for radial- or loop-feed systems are covered in this standard. The electrical and mechanical requirements of any accessory devices that may be supplied with the transformer are not covered.

Keywords: connector arrangements; loop, radial, three-phase, compartmental, pad-mounted, transformer; three-phase, pad-mount distribution transformers

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This standard was prepared by the Working Group of the Subcommittee on Distribution Transformers, Three Phase, Pad-mounted, and it is a revision and combination of IEEE Std C57.12.22™-1993 [B2] and IEEE Std C57.12.26™-1992 [B3].^a

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1. Overview

1.1 Scope

This standard covers certain electrical, dimensional, and mechanical characteristics and takes into consideration certain safety features of three-phase, 60 Hz, liquid-filled, self-cooled, pad-mounted, compartmental-type distribution transformers. These transformers are rated 5 MVA and smaller, with the high-voltage limit of 34.5 kV system nominal voltage and below, and with the low-voltage limit of 15 kV system nominal voltage and below. These transformers are generally used for step-down purposes from an underground primary cable supply. This standard covers the connector, bushing, and terminal arrangements for radial- or loop-feed systems. Either certain minimum dimensions or certain specific dimensions shall be specified. This standard does not cover the electrical and mechanical requirements of any accessory devices that may be supplied with the transformer.