

PC57.12.51

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Type of Project: Modify Existing Approved PAR

PAR Request Date: 27-Feb-2017

PAR Approval Date: 18-May-2017

PAR Expiration Date: 31-Dec-2018

Status: Modification to a Previously Approved PAR for the Revision of a Standard

Root PAR: PC57.12.51 **Approved on:** 21-Aug-2014

Root Project: C57.12.51-2008

1.1 Project Number: PC57.12.51

1.2 Type of Document: Guide

1.3 Life Cycle: Full Use

2.1 Title: Guide for Mechanical Interchangeability of Ventilated Dry Type Transformers

Changes in title: ~~Standard~~ **Guide** for ~~Ventilated~~ **Mechanical** ~~Dry Type~~ **Interchangeability** ~~Power of~~ **Transformers**, ~~Ventilated 500~~ **Dry** ~~kVA~~ **Type** ~~and~~ **Transformers** ~~Larger, Three Phase, with High Voltage 601 V to 34 500 V; Low Voltage 208Y/120 V to 4160 V General Requirements~~

3.1 Working Group: Dry Type - Ventilated Dry-type Working Group (PE/TR/DryType-WGC57.12.51)

Contact Information for Working Group Chair

Name: Sanjib Som

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Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE Power and Energy Society/Transformers (PE/TR)

Contact Information for Sponsor Chair

Name: Stephen Antosz

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Name: James Graham

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4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 01/2018

4.3 Projected Completion Date for Submittal to RevCom

Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 10/2018

5.1 Approximate number of people expected to be actively involved in the development of this project: 10

5.2 Scope: This guide sets forth characteristics of ventilated dry type transformers relating to performance, limited electrical and mechanical interchangeability, as well as recommended practice for installation of the equipment described, and to assist in the proper selection of such equipment. Specific rating combinations are described up to a base of 7500 kVA, high-voltage class from 1.2kV to 36 kV inclusive, and low-voltage class up to 5kV.

Changes in scope: This ~~standard~~ **guide** sets forth characteristics of ~~ventilated dry type transformers~~ relating to performance, limited electrical and mechanical interchangeability, as well as ~~safety~~ **recommended practice for installation** of the equipment described, and to assist in the proper selection of such equipment. Specific rating combinations are described ~~in up to a range a from base 7500/10000 of kVA to 7500/10 000 kVA inclusive, with high-voltage 601 class up from 1.2kV to 3436 500kV up inclusive, and low-voltage 208Y/120 class up to 4160 V inclusive~~ **5kV**. This ~~standard~~ **guide** does not apply to other types of transformers such as specialty, ~~ventilated dry type 500 kVA and smaller, sealed dry-type, pad-mounted dry-type, liquid immersed, instrument, regulating, step furnace, mine, and rectifier~~ **induction transformers, voltage Transformers, regulators,**

This guide does not apply to other types of transformers such as specialty, sealed dry-type, pad-mounted dry-type, instrument, step and induction voltage regulators, arc-furnace, mining, testing, welding and rectifier transformers.

~~with arc-furnace, high mining, voltage testing, 600 welding and
or rectifier less are excluded transformers.~~

5.3 Is the completion of this standard dependent upon the completion of another standard?: No

5.4 Purpose: This document will not include a purpose clause.

Changes in purpose: This standard describes certain electrical and mechanical characteristics and takes into consideration certain safety features of 60 Hz, two-winding, three-phase, ventilated dry-type transformers with self-cooled ratings 501 kVA and larger, which are generally used for step-down purposes. Forced-air-cooled ratings for certain sizes are listed in Clause 9.

5.5 Need for the Project: The project will reaffirm this document for use beyond its current validity period - ends 2018.

5.6 Stakeholders for the Standard: Stakeholders include consultants and engineers who prepare specifications for transformer manufacturers and end users.

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: No

7.2 Joint Development

Is it the intent to develop this document jointly with another organization?: No

8.1 Additional Explanatory Notes: #1) The project is required to validate the document beyond its current validity period - ends 2018.

#2) During the working group meetings it was felt that C57.12.50 covered several areas which are similar to C57.12.51. The modified scope covers these points. It is the intent of Dry Type subcommittee not to renew C57.12.50