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IEEE Standard for Requirements, Terminology, and Test Procedure for Neutral Grounding Devices

Amendment 1: Neutral Grounding Resistors Clause (AM)

IEEE Power and Energy Society

Developed by the
Transformers Committee

IEEE Std C57.32a™-2020
(Amendment to IEEE Std C57.32-2015)

IEEE

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IEEE SA Standards Board

Abstract: Addressed in this amendment are changes to the neutral grounding devices clause (Clause 7) of IEEE Std C57.32-2015.

Keywords: arc-suppression reactors, ground fault neutralizers, grounding transformers, IEEE C57.32™, neutral grounding devices, reactors, resistors

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Introduction

This introduction is not part of IEEE Std C57.32a-2020, IEEE Standard for Requirements, Terminology, and Test Procedure for Neutral Grounding Devices Amendment: Neutral Grounding Resistors Section (AM) Amendment 1.

This amendment removes the temperature coefficient of resistivity requirement from 7.3 and replaces it with a suggested overall resistance change. It also improves the testing requirement for neutral grounding resistors.

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NOTE—The editing instructions contained in this amendment define how to merge the material contained therein into the existing base standard and its amendments to form the comprehensive standard.

The editing instructions are shown in ***bold italic***. Four editing instructions are used: change, delete, insert, and replace. Change is used to make corrections in existing text or tables. The editing instruction specifies the location of the change and describes what is being changed by using ~~strikethrough~~ (to remove old material) and underscore (to add new material). ***Delete*** removes existing material. ***Insert*** adds new material without disturbing the existing material. Insertions may require renumbering. If so, renumbering instructions are given in the editing instruction. ***Replace*** is used to make changes in figures or equations by removing the existing figure or equation and replacing it with a new one. Editing instructions, change markings, and this NOTE will not be carried over into future editions because the changes will be incorporated into the base standard.[1]

7. Grounding resistors

Insert new section 7.2:

7.2 Ratings

Change existing 7.2 to 7.2.1 as follows:

7.2.1 Rated voltage

Since the active material used in resistors has an appreciable temperature coefficient, the resistance is materially changed during the time of operation causing the current to decrease. When the product of the fault current and resistance at 30 °C exceeds 80% of the line-to-neutral voltage of

[1] Notes in text, tables, and figures of a standard are given for information only and do not contain requirements needed to implement this standard.