



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)

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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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66 **Introduction**

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

69 This amendment removes the temperature coefficient of resistivity requirement from 7.3 and replaces it
70 with a suggested overall resistance change. It also improves the testing requirement for neutral grounding
71 resistors.
72

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85 **IEEE Standard for Requirements,**
86 **Terminology, and Test Procedure for**
87 **Neutral Grounding Devices**

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89 **Amendment 1: Neutral Grounding**
90 **Resistors Clause (AM)**

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101 **7. Grounding resistors**

102 *Insert new section 7.2:*

103 **7.2 Ratings**

104 *Change existing 7.2 to 7.2.1 as follows:*

105 **7.2.1 Rated voltage**

106 Since the active material used in resistors has an appreciable temperature coefficient, the resistance is
107 materially changed during the time of operation causing the current to decrease. When the product of the
108 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.