

IEEE Standard for Indoor AC Switches (1 kV to 38 kV) for Use in Metal-Enclosed Switchgear

IEEE Power and Energy Society

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Switchgear Committee

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(Revision of IEEE Std C37.20.4-2001)

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Abstract: Indoor ac medium-voltage switches for use in enclosures for application in power circuits at voltages above 1 kV through 38 kV are covered in this standard. Stationary or drawout, manual or power operation, and fused or unfused are included.

Keywords: IEEE C37.20.4™, indoor ac switches, metal-enclosed switchgear

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Introduction

This introduction is not part of IEEE Std C37.20.4-2013, IEEE Standard for Indoor AC Switches (1 kV to 38 kV) for Use in Metal-Enclosed Switchgear.

This standard has been revised to reflect needed technical changes that have been suggested since the last revision was published, incorporating preferred ratings that were previously found in ANSI C37.22-1997 [B1]^a and harmonizing with IEEE Std C37.100.1-2007.^b NEMA has turned over the rights to the preferred ratings contained in ANSI C37.22-1997 and is no longer responsible for Clause 5 and Clause 7 in this standard.

This edition was prepared by the Switchgear Assemblies Subcommittee of the IEEE Switchgear Committee. Through this effort over the many years, the switchgear assemblies standards have been of extreme value to the industry. Further suggestions for improvement gained in the use of this standard are welcome.

^a The numbers in brackets correspond to those of the bibliography in Annex A.

^b Information on references can be found in Clause 2.

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1. Overview

1.1 Scope

This standard covers indoor ac switches rated above 1 kV through 38 kV for use in metal-enclosed switchgear as follows:

- a) Stationary or drawout
- b) Manual or power operation
- c) Fused or unfused

The term “indoor” is intended to indicate that the enclosure provides a degree of protection to the switch and the enclosure may be suitable for indoor, outdoor, or other service conditions and complies with the requirements of switchgear assemblies as defined by IEEE Std C37.20.2™ or IEEE Std C37.20.3™.¹

This standard does not apply to switches for use in subsurface or pad-mounted switchgear in IEEE Std C37.74™ or to high-voltage air switches in IEEE Std C37.30™.

¹ Information on references can be found in Clause 2.