

IEEE Standard Definitions for AC (52 kV and below) and DC (3.2 kV and below) Switchgear Assemblies

IEEE Power and Energy Society

Sponsored by the
Switchgear Committee

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of the
IEEE Power and Energy Society

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Abstract: Terms and definitions encompassing the products within the scope of ac (38 kV and below for air insulated equipment, 52 kV and below for gas insulated equipment) and dc (3.2 kV and below) power switchgear assemblies, including components for switching, interrupting, metering, protection, and regulating purposes as used primarily in connection with generation, transmission, distribution, and conversion of electric power are included in this standard.

Keywords: definitions, IEEE C37.20.10™, metal-enclosed bus, power circuit breakers, switchgear, terms

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Introduction

This introduction is not part of IEEE Std C37.20.10™-2016, IEEE Standard Definitions for AC (52 kV and below) and DC (3.2 kV and below) Switchgear Assemblies.

This standard constitutes a compilation of terms and definitions relating to power switchgear assemblies and should be considered to reflect common and current usage of that industry.

The size of this standard has been kept to a minimum by omitting all terms satisfactorily covered in readily available dictionaries. In many instances, terms and definitions of related products exhibiting minor variations have been combined for greater clarity.

Specifications and ratings have been excluded from definitions. This information is included in standards covering the specific products.

This standard contains, in addition to many additions and modifications, the relevant terms from IEEE Std C37.100™, which is scheduled to be withdrawn when its validity expires in 2018. IEEE Std C37.100-1992 covered the term “electric eels.” After much consideration, the working group felt this term should be at least mentioned (for historical purposes) within the Introduction of this standard.

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1. Overview

1.1 Scope

The terms and definitions in this standard are intended to encompass the products within the scope of ac (38 kV and below for air-insulated equipment, 52V kV and below for gas-insulated equipment) and dc (3.2 kV and below) power switchgear assemblies for switching, interrupting, metering, protection, and regulating purposes as used primarily in connection with generation, transmission, distribution, and conversion of electric power.

1.2 Purpose

The definitions of terms and explanatory notes relating thereto contained in this standard are not intended to encompass all possible meanings of the terms. They are intended for the sole purpose of establishing only those meanings of terms used in standards for switchgear assemblies. They do not purport to encompass other meanings that the terms may properly have when used in connection with other subjects.

In some instances, terms and definitions that are not identical to those in this standard have been developed by other branches of industry. Where this situation exists, the definitions in this standard shall be used for power switchgear assemblies covered by the C37 series of standards.