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IEEE Standard for Definitions of High-Voltage Circuit Breakers Above 1000 Vac and 3200 Vdc, and Reclosers and Other Distribution Equipment from 1000 Vac to 38 000 Vac

IEEE Power and Energy Society

Sponsored by the
Switchgear Committee

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IEEE Std C37.100.5™-2018

IEEE Standard for Definitions of High-Voltage Circuit Breakers Above 1000 Vac and 3200 Vdc, and Reclosers and Other Distribution Equipment from 1000 Vac to 38 000 Vac

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IEEE-SA Standards Board

Abstract: The terms and definitions in the standard are intended to encompass the products within the scope of the IEEE C37 series of power switchgear standards for high-voltage circuit breakers (above 1000 Vac and 3200 Vdc) and for reclosers and other distribution equipment (above 1000 Vac to 38,000 Vac) as used primarily in connection with generation, transmission, distribution, and conversion of electric power.

The definitions of terms and explanatory notes relating thereto contained in this standard are not intended to embrace all possible meanings of the terms. They are intended for the sole purpose of establishing only those meanings of terms used in switchgear standards. They do not purport to embrace 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 within the IEEE C37 series of standards.

Keywords: capacitor switch, circuit breaker, definitions, fault interrupter, IEEE C37.100.5™, pad-mounted switchgear, recloser, sectionalizer, submersible switchgear, switchgear

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Introduction

This introduction is not part of IEEE Std C37.100.5-2018, IEEE Standard for Definitions of High-Voltage Circuit Breakers Above 1000 Vac and 3200 Vdc, and Reclosers and Other Distribution Equipment from 1000 Vac to 38 000 Vac.

Definitions for these subject products were historically part of a larger document, IEEE Std C37.100™-1992, which also included definitions from the Power Systems Relaying Committee and the Substations Committee of the IEEE Power and Energy Society. The Switchgear Committee determined that continued maintenance and revision of IEEE Std C37.100-1992 was not feasible in its current construction, and will allow it to be administratively withdrawn by IEEE-SA at the end of 2018.

This standard has been created to consolidate and preserve common terms and definitions associated with high-voltage circuit breakers, reclosers, and other distribution equipment.

Contents

IEEE Standard for Definitions of High-Voltage Circuit Breakers Above 1000 Vac and 3200 Vdc, and Reclosers and Other Distribution Equipment from 1000 Vac to 38 000 Vac

1. Overview

1.1 Scope

The terms and definitions in the standard are intended to encompass the products within the scope of the IEEE C37 list of power switchgear standards for high-voltage circuit breakers (above 1000 Vac and 3200 Vdc) and for reclosers and other distribution equipment (above 1000 Vac to 38,000 Vac) as used primarily in connection with generation, transmission, distribution, and conversion of electric power.

For terms not defined within this standard, the definitions within IEEE Std C37.20.10™ apply.[1]

1.2 Purpose

The definitions of terms and explanatory notes relating thereto contained in this standard are intended for the sole purpose of establishing only those meanings of terms used in standards for high-voltage circuit breakers above 1000 Vac and 3200 Vdc, and distribution switching and overcurrent protective equipment including: reclosers, sectionalizers, fault interrupters, capacitor switches, pad-mounted gear, and submersible gear within the IEEE C37 series of standards. 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 understanding the specific intent of the standard that is referencing this standard.

2. Normative references

The following referenced documents are indispensable for the application of this document (i.e., they must be understood and used, so each referenced document is cited in text and its relationship to this document is explained). For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments or corrigenda) applies.

IEEE Std C37.20.10™, IEEE Standard Definitions for AC (52 kV and below) and DC (3.2 kV and below) Switchgear Assemblies.[2, 3]

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