

IEEE Recommended Practice for Instruction Manual Content of AC High- Voltage Circuit Breakers above 1000 V

IEEE Power and Energy Society

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Abstract: This recommended practice is intended to identify, organize, and summarize information about ac high-voltage circuit breakers provided by the manufacturer that knowledgeable users will find useful for the receipt, installation, commissioning, operation and maintenance, and decommissioning of ac high-voltage circuit breakers above 1000 V. Recommended categories and an arrangement for the presentation of information in circuit breaker instruction manuals is covered in this recommended practice.

Keywords: circuit breaker, disposal, installation, IEEE C37.12.1™, instruction manual, maintenance, operation

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Introduction

This introduction is not part of IEEE Std C37.12.1-2018, IEEE Recommended Practice for Instruction Manual Content of AC High-Voltage Circuit Breakers above 1000 V.

This revision of the IEEE Guide for High-Voltage (> 1000 V) Circuit Breaker Instruction Manual Content will make this document the IEEE Recommended Practice for Instruction Manual Content of AC High-Voltage Circuit Breakers above 1000 V. IEEE Std C37.12.1-2018 provides recommendations to manufacturers on the data and information to include with their circuit breaker instruction manuals. Circuit breaker instruction manuals are considered to include all component instructions, drawings and illustrations, data sheets, documentation, and other written information provided by the circuit breaker manufacturer.

The specific material recommended for inclusion in instruction manuals is that data and information commonly employed by users for the installation, operation, and maintenance of circuit breakers.

A separate [Clause 5](#) contains additional information for specific high-voltage circuit breakers such as some nameplate information, some test measurements, some setting or calibration data, and other topics required for the installation, operation, and maintenance of a circuit breaker. This summary information is not intended to replace a thorough review of more detailed information contained in the manufacturer's instruction manual.

[Clause 5](#) does not apply to draw-out circuit breakers such as those used in switchgear assemblies. A generic instruction manual may be more appropriate for such circuit breakers, and the instruction manual for these circuit breakers may apply to many other circuit breakers produced over a wide range of time. This recommended practice does not apply to circuit breakers used in gas-insulated switchgear.

A manufacturer's instruction manual is the definitive reference for information on the receiving, installation, operation, maintenance, and disposal of circuit breakers. This recommended practice is not intended to provide or replace the circuit breaker data normally found on the nameplate, the test reports, or the various other forms of data provided to owners of circuit breakers by the circuit breaker manufacturer. The recommended practice is intended to provide a recommended minimum content for a circuit breaker instruction manual.

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1. Overview

1.1 Scope

This recommended practice is intended to identify, organize and summarize information about high-voltage circuit breakers provided by the manufacturer that knowledgeable users will find useful for the receipt, installation, commissioning, operation and maintenance, and decommissioning of ac high-voltage circuit breakers above 1000 V. This recommended practice recommends categories and an arrangement for the presentation of information in circuit breaker instruction manuals.

1.2 Purpose

The purpose of the document is to provide recommendations for authors and those who specify instruction manuals for ac high-voltage circuit breakers. Structuring instruction manual content according to a common (standard) format shown herein will allow knowledgeable users a means to effectively and quickly, find the information they need:

- To receive, install, and commission new high-voltage circuit breakers.
- To operate, inspect, maintain, and repair high-voltage circuit breakers throughout their service life.
- To decommission the high-voltage circuit breakers at the end of their service life.

1.3 Limitations

This recommended practice addresses various forms of documentation that pertain to high-voltage circuit breakers. IEEE Std C37.04^{TM1} requires essential markings on a circuit breaker whereas this recommended practice is directed at the various forms of documentation that pertain to a circuit breaker.

Users are advised that this recommended practice is NOT an instruction manual.

This recommended practice suggests items for inclusion in an instruction manual that is to be prepared by the circuit breaker manufacturer. A manufacturer may include additional information that is not identified in this recommended practice. Users are to follow manufacturer's instructions in the care of circuit breakers.

¹Information on references can be found in [Clause 2](#).