CSA GROUP™

CSA C22.2 No. 268:22
National Standard of Canada

Power circuit breakers up to 1000 Vac and 1500 V dc used in enclosures

SCC CCN

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National Standard of Canada

CSA C22.2 No. 268:22
Power circuit breakers up to 1000 Vac and 1500 V dc used in enclosures

ICS 29.100.01

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Standard for Safety for Power Circuit Breakers up to 1000 V AC and 1500 V DC Used in Enclosures

Second Edition, Dated August 8, 2022

Summary of Topics

This new edition dated August 8, 2022 is the Binational Standard for Power Circuit Breakers up to 1000 V AC and 1500 V DC Used in Enclosures, previously titled Standard for Low-Voltage AC and DC Power Circuit Breakers Used in Enclosures.

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CSA Group
CSA C22.2 No. 268:22
Second Edition

Underwriters Laboratories Inc.
UL 1066
Fifth Edition

Power Circuit Breakers up to 1000 V AC and 1500 V DC Used in Enclosures

August 8, 2022

ANSI/UL 1066-2022

Commitment for Amendments

This standard is issued jointly by the Canadian Standards Association (operating as “CSA Group”) and Underwriters Laboratories Inc. (UL). Comments or proposals for revisions on any part of the standard may be submitted to CSA Group or UL at anytime. Revisions to this standard will be made only after processing according to the standards development procedures of CSA Group and UL. CSA Group and UL will issue revisions to this standard by means of a new edition or revised or additional pages bearing their date of issue.

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This Standard is subject to review within five years from the date of publication, and suggestions for its improvement will be referred to the appropriate committee. To submit a proposal for change, please send the following information to inquiries@csagroup.org and include "Proposal for change" in the subject line: Standard designation (number); relevant clause, table, and/or figure number; wording of the proposed change; and rationale for the change.

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This ANSI/UL Standard for Safety consists of the Fifth Edition. The most recent designation of ANSI/UL 1066 as an American National Standard (ANSI) occurred on August 1, 2022. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page (front and back), or the Preface.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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PREFACE

This is the harmonized CSA Group and UL standard for Circuit Breakers up to 1000 V AC and 1500 V DC Used in Enclosures. It is the second edition of CSA C22.2 No. 268:22 and the fifth edition of UL 1066. This second edition of CSA C22.2 No. 268 supersedes the previous edition published April 13, 2012. This fifth edition of UL 1066 supersedes the previous edition published April 13, 2012.

This harmonized standard was prepared by the CSA Group and Underwriters Laboratories Inc. (UL). The efforts and support of the Technical Harmonization Committee for Power Circuit Breakers on the Harmonization of Electrotechnical Standards of the Nations of the Americas (CANENA), are gratefully acknowledged.

This standard is considered suitable for use for conformity assessment within the stated scope of the standard.

This standard was reviewed by the CSA Subcommittee on Low Voltage Power Circuit Breakers, under the jurisdiction of the CSA Technical Committee on Industrial Products and the CSA Strategic Steering Committee on requirements for Electrical Safety, and has been formally approved by the CSA Technical Committee. This standard has been developed in compliance with the Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

Application of Standard

Where reference is made to a specific number of samples to be tested, the specified number is to be considered a minimum quantity.

Note: Although the intended primary application of this standard is stated in its scope, it is important to note that it remains the responsibility of the users of the standard to judge its suitability for their particular purpose.

Level of harmonization

This standard uses the IEC format, but is not based on, nor is it to be considered equivalent to, an IEC standard.

This standard is published as an equivalent standard for CSA Group and UL.

An equivalent standard is a standard that is substantially the same in technical content, except as follows: Technical national differences are allowed for codes and governmental regulations as well as those recognized as being in accordance with NAFTA Article 905, for example, because of fundamental climatic, geographical, technological, or infrastructural factors, scientific justification, or the level of protection that the country considers appropriate. Presentation is word for word except for editorial changes.

Reasons for differences from IEC

There is no corresponding IEC standard.

Interpretations

The interpretation by the standards development organization of an identical or equivalent standard is based on the literal text to determine compliance with the standard in accordance with the procedural rules of the standards development organization. If more than one interpretation of the literal text has been

identified, a revision is to be proposed as soon as possible to each of the standards development organizations to more accurately reflect the intent.

INTRODUCTION

1 Scope

1.1 These requirements apply to low-voltage AC power circuit breakers as follows:

a) Stationary-mounted or drawout-mounted types,

b) 2-pole, 3-pole, and 4-pole constructions,

c) Manually operated or power operated, and

d) With or without electromechanical or solid-state type trip device.

1.2 These requirements apply to drawout-mounted type low-voltage AC integrally fused power circuit breakers, consisting of low-voltage AC power circuit breakers with integral fuses.

1.3 These requirements apply to low-voltage AC fuse draw-outs consisting of fuses in a drawout assembly intended to be connected in series with a low-voltage AC power circuit breaker to form a fused circuit breaker.

1.4 These requirements apply to general purpose type DC power circuit breakers.

1.5 These requirements apply to equipment rated 1000 V or less nominal, 1058 V maximum AC and 1500 V maximum DC.

1.6 These requirements apply to equipment intended for use in ordinary locations in accordance with Annex A, Ref. No. 1.

1.7 These requirements are intended to supplement and be used in conjunction with the:

a) Standard for Low-Voltage AC Power Circuit Breakers Used In Enclosures, IEEE C37.13 (see Annex A, Ref. No. 7),

b) Standard for DC (3200 V and below) Power Circuit Breakers Used in Enclosures, IEEE C37.14 (see Annex A, Ref. No. 8),

c) Standard for Metal-Enclosed Low-Voltage (1000 Vac and below, 3200 Vdc and below) Power Circuit Breaker Switchgear, IEEE C37.20.1 (see Annex A, Ref. No. 9),

d) Test Procedures for Switchgear – Low-Voltage AC Power Circuit Breakers Used In Enclosures, ANSI C37.50 (see Annex A, Ref. No. 10), and

e) Conformance Test Procedures for Switchgear – Metal-Enclosed Low-Voltage AC Power Circuit Breaker Switchgear Assemblies, ANSI C37.51 (see Annex A, Ref. No. 11).

1.8 This Standard does not apply to molded-case circuit breakers.

1.9 These circuit breakers are intended for installation in circuit breaker enclosures, switchboards (switchgear), panelboards, and the like. Drawout-mounted devices are intended for use with specific adapters or receiving equipment. The acceptability of the combination of a circuit breaker with respect to any overall enclosure will be determined when the complete product is considered.