CSA GROUP™

CSA C22.2 No. 94.1:24
National Standard of Canada

Enclosures for electrical equipment, non-environmental considerations

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CSA C22.2 No. 94.1:24
February 2024

Title: *Enclosures for electrical equipment, non-environmental considerations*

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600-55 Metcalfe Street
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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 to judge its suitability for their particular purpose.

National Standard of Canada

CSA C22.2 No. 94.1:24

Enclosures for electrical equipment, non-environmental considerations

ICS 21.180

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SDG Foreword

CSA Group develops and maintains standards across a broad range of topics, most of which support the United Nations Sustainable Development Goals (UN SDGs) towards shaping a sustainable and resilient future.

Through a robust mapping process, connections between CSA C22.2 No. 94.1:24 and the following SDGs have been identified:

SDG		
Target	7.1	9.1

CSA C22.2 No. 94.1:24 has notable linkages with the following SDGs:

- SDG 7: *Affordable and Clean Energy*
- SDG 9: *Industry, Innovation, and Infrastructure*

For further information on CSA Group's SDG Mapping initiative, please visit:
https:www.csagroup.org/sdg/

Disclaimer: It is important to note that although some standards explicitly support SDG targets, not all standards link to the SDGs. Standards users should always take care and be specific when claiming their support of SDGs through the use of standards. The SDG mapping outcomes made available by CSA Group are intended to assist users in their evaluation of how the application of a standard may support their work towards SDG achievement.

Standard for Safety for Enclosures for Electrical Equipment, Non-Environmental Considerations

Third Edition, Dated February 29, 2024

Summary of Topics

This new Fourteenth Edition of ANSI/UL 50 dated February 29, 2024 includes (a) Optional Performance Tests for Certain Construction Requirements; (b) Revisions to Table 6.6; (c) Corrections to Annex B and Annex F; (d) Revision of Sketch F of Figure 6.10; (e) Addition of Annex G

Association of Standardization and Certification
NMX-J-235/1-ANCE-2024
Fourth Edition

CSA Group
CSA C22.2 No. 94.1:24
Third Edition

ULSE Inc.
UL 50
Fourteenth Edition

Enclosures for Electrical Equipment, Non-Environmental Considerations

February 29, 2024

ANSI/UL 50-2024

Commitment for Amendments

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

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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 Fourteenth Edition. The most recent designation of ANSI/UL 50 as an American National Standard (ANSI) occurred on February 29, 2024. 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 ULSE at any time. Proposals should be submitted via a Proposal Request in the Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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Preface

This is the harmonized ANCE, CSA Group, and ULSE standard for Enclosures for Electrical Equipment, Non-Environmental Considerations. It is the fourth edition of NMX-J-235/1-ANCE, the third edition of CSA C22.2 No. 94.1, and the fourteenth edition of UL 50. This edition of NMX-J-235/1-ANCE supersedes the previous edition published on October 16, 2015. This edition of CSA C22.2 No. 94.1 supersedes the previous edition published in 2015. This edition of UL 50 supersedes the previous edition published on October 16, 2015.

This harmonized standard was prepared by the Association of Standardization and Certification (ANCE), CSA Group, and ULSE. The efforts and support of the CANENA Technical Harmonization Committee 70/31 Enclosures Working Group are gratefully acknowledged.

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

The present Mexican standard was developed by the CT CDI Control y Distribución Industrial from the Comité de Normalización de la Asociación de Normalización y Certificación, A.C., CONANCE, with the collaboration of the enclosures manufacturers and users.

This Standard was reviewed by the CSA Integrated Committee on Enclosures, 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 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 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 considered equivalent to, an IEC standard.

This standard is published as an equivalent standard for ANCE, CSA Group, and ULSE.

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

The THSC investigated and found no existing IEC standards or work programs covering the scope of the products in this Standard.