



## Switchboards



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## *CSA C22.2 No. 244:19* **Switchboards**



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ICS 29.130.01

Standard for Safety for Switchboards

Dated July 19, 2019

**Summary of Topics**

***This new edition covers switchboards nominally rated at 1 000 V or less and intended for use in accordance with CSA C22.1, Canadian Electrical Code, Part I (CE Code, Part I), the National Electrical Code (NEC), ANSI/NFPA 70, and the Mexican Standard for Electrical Installations (Utility), NOM-001-SEDE.***

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Association of Standardization and Certification  
NMX-J-118/2-ANCE-2019  
Fourth Edition



CSA Group  
CSA C22.2 No. 244:19  
Second Edition



Underwriters Laboratories Inc.  
UL 891  
Twelfth Edition

## Switchboards

July 19, 2019



ANSI/UL 891-2019



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## Preface

This is the harmonized ANCE, CSA Group, and UL standard for Switchboards. It is the Fourth edition of NMX-J-118/2-ANCE, the Second edition of CSA C22.2 No. 244, and the Twelfth edition of UL 891. This edition of NMX-J-118/2-ANCE supersedes the previous edition published on October 31, 2012. This edition of CSA C22.2 No. 244 supersedes the previous edition published on July 26, 2005. This edition of UL 891 supersedes the previous edition published on July 26, 2005.

This harmonized standard was prepared by the Association of Standardization and Certification, (ANCE), CSA Group and Underwriters Laboratories Inc. (UL). The efforts and support of the Technical Harmonization Subcommittee, 17D – Panelboard and Switchboard 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.

The present Mexican standard was developed by the CT CDI Control y Distribucion Industrial from the Comite de Normalizacion de la Asociacion de Normalizacion y Certificacion, A. C., CONANCE, with the collaboration of the switchboard manufacturers and users.

This standard was reviewed by the CSA Integrated Committee on Switchgear Products, 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 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 is published as an equivalent standard for ANCE, 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.

## 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.

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# Switchboards

## 1 General

### 1.1 Scope and object

1.1.1 This Standard applies to switchboards nominally rated at 1 000 V or less and intended for use in accordance with the Canadian Electrical Code, Part I (CE Code, Part I), the National Electrical Code (NEC), ANSI/NFPA 70, and the Mexican Standard for Electrical Installations (Utility), NOM-001-SEDE.

1.1.2 In this standard the term switchboard is intended to refer to a dead-front switchboard.

1.1.3 These requirements do not cover the following switchboard types: preset and dimmer control (theater), live front, railway control or electrification; or constructions intended only for receiving motor control center units.

1.1.4 These requirements cover switchboards for use on circuits having available short-circuit currents of not more than 200 000 A.

1.1.5 These requirements do not cover switchboards with short-time current ratings.

## 2 General

### 2.1 Undated references

2.1.1 For undated references to standards, such reference shall be considered to refer to the latest edition and all revisions to that edition up to the time when this standard was approved. For dated references to standards, such reference shall be considered to refer to the dated edition and all revisions published to that edition up to the time the standard was approved. See Annex [B](#).

### 2.2 Multiple countries codes

2.2.1 When compliance with multiple countries' codes or Standards is required, but the product is not intended for use in all three countries, the product need only comply with the codes or Standards for the country or countries in which it is intended to be used.

### 2.3 Products for Canada

2.3.1 For products intended for use in Canada general requirements are given in Reference Item No. 15 of Annex [B](#).

### 2.4 Components

2.4.1 A component of a product covered by this standard shall comply with the requirements for that component. See Annex [A](#) for a list of Standards covering components generally used in the products covered by this Standard. A component shall comply with the Underwriters Laboratories Inc. Standards, the ANCE Standards, and the Canadian Standards Association Standards for the component. When a product is not intended for use in all three countries, a component need only comply with the component Standards for the country or countries in which it is intended to be used.

2.4.1.1 A component need not comply if it is: