

Panelboards and enclosed panelboards



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Preface

This is the sixth edition of C22.2 No. 29, *Panelboards and enclosed panelboards*, one of a series of Standards issued by CSA Group under Part II of the *Canadian Electrical Code*. It supersedes the previous editions published in 2011, 1989, 1983, 1955, and 1936.

In addition to incorporating minor edits and corrections to the previous edition, this new edition includes the requirements for:

- a) determining the accessibility of live parts by use of a finger probe;
- b) the integration of transfer switch equipment within a panelboard;
- c) clarification of neutral assembly requirements; and
- d) clarification of ampacity termination temperature markings.

For general information on the Standards of the *Canadian Electrical Code, Part II*, see the Preface of CAN/CSA-C22.2 No. 0, *General Requirements — Canadian Electrical Code, Part II*.

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

This Standard was prepared by the Subcommittee on Panelboards and Panelboard Enclosures under the jurisdiction of the Technical Committee on Industrial Products and the Strategic Steering Committee on Requirements for Electrical Safety.

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.

Notes:

- 1) *Use of the singular does not exclude the plural (and vice versa) when the sense allows.*
- 2) *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.*
- 3) *This Standard was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity.” It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this Standard.*
- 4) *To submit a request for interpretation of this Standard, please send the following information to inquiries@csagroup.org and include “Request for interpretation” in the subject line:*
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 - b) *provide an explanation of circumstances surrounding the actual field condition; and*
 - c) *where possible, phrase the request in such a way that a specific “yes” or “no” answer will address the issue.*

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- 5) *This Standard is subject to review five years from the date of publication. 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:*
 - a) *Standard designation (number);*
 - b) *relevant clause, table, and/or figure number;*
 - c) *wording of the proposed change; and*
 - d) *rationale for the change.*

C22.2 No. 29-15

Panelboards and enclosed panelboards

1 Scope

1.1

This Standard applies to panelboards and enclosed panelboards, rated 600 V and less, for use in nonhazardous locations in accordance with the *Canadian Electrical Code, Part I*, to provide overcurrent protection for a number of circuits.

1.2

Clauses [1](#) to [6](#) apply to panelboards and enclosed panelboards of other than the service entrance type and apply, unless otherwise noted, to the panelboards covered by Clauses [8](#) and [9](#) as follows:

- a) Clause [8](#) — panelboards for service entrance use; and
- b) Clause [9](#) — custom-built panelboard assemblies.

1.3

This Standard covers the construction of the synthetic fuses to be used in the simulated load cycle test on fusible panelboards. (See Clause [10](#).)

1.4

In this Standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

Annexes are designated normative (mandatory) or informative (nonmandatory) to define their application.

2 Reference publications

This Standard refers to the following publications, and where such reference is made, it shall be to the edition noted below, including all amendments published thereto.

CSA Group
B19.2-1965
Helical spring washers

C22.1-12
Canadian Electrical Code, Part I