CSA C22.2 No. 158:10

National Standard of Canada

(reaffirmed 2019)

Terminal blocks

Standards Council of Canada
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Revision History

CSA C22.2 No. 158-10, Terminal blocks

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Title: *Terminal blocks*

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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.

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CSA C22.2 No. 158:10
Terminal blocks

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Preface

This is the third edition of CSA C22.2 No. 158, one of a series of Standards issued by the Canadian Standards Association under Part II of the *Canadian Electrical Code*. It supersedes the previous editions, published in 1987 and 1984.

This edition incorporates the following changes from the previous edition:

(a) updates to other referenced standards;
(b) a change in reference to CAN/CSA-C22.2 No. 0.17 for insulation materials testing;
(c) the addition of requirements and markings for spring force terminals;
(d) revision to the static heating test;
(e) an updated corrosion cracking test;
(f) the addition of short-circuit current ratings; and
(g) an updated table for static heating test values.

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 Terminal Assemblies, under the jurisdiction of the Technical Committee on Industrial Products and the Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the Technical Committee.

Interpretations: The Strategic Steering Committee on Requirements for Electrical Safety has provided the following direction for the interpretation of standards under its jurisdiction: "The literal text shall be used in judging compliance of products with the safety requirements of this Standard. When the literal text cannot be applied to the product, such as for new materials or construction, and when a relevant committee interpretation has not already been published, CSA's procedures for interpretation shall be followed to determine the intended safety principle."

March 2010

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 publication 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 publication.

(4) *CSA Standards are subject to periodic review, and suggestions for their improvement will be referred to the appropriate committee.*

(5) *All enquiries regarding this Standard, including requests for interpretation, should be addressed to Canadian Standards Association, 5060 Spectrum Way, Suite 100, Mississauga, Ontario, Canada L4W 5N6.*

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(a) define the problem, making reference to the specific clause, and, where appropriate, include an illustrative sketch;
(b) provide an explanation of circumstances surrounding the actual field condition; and
(c) be phrased where possible to permit a specific "yes" or "no" answer.

Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization *and are published in CSA's periodical* Info Update*, which is available on the CSA Web site at www.csa.ca.*

C22.2 No. 158-10
Terminal blocks

1 Scope

1.1
This Standard covers assemblies of wiring terminals and supporting blocks for copper conductors, copper and aluminum conductors, and aluminum conductors rated at a maximum of 1500 V and 2000 A, and intended to provide for the connection of wiring designed to be used in accordance with the Rules of the *Canadian Electrical Code, Part I*.

1.2
These terminal blocks are intended to support permanently and to insulate wire terminations and joints from each other and from the surface on which the terminal block is mounted, where the absence of such support or insulation could result in a hazard.

1.3
Terminal blocks can be of various designs, such as sectional, modular, or one-piece.

1.4
Terminal blocks can employ a combination of connectors.

1.5
In CSA standards, "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.

1.6
The values given in SI units are the units of record for the purposes of this Standard. The values given in parentheses are for information and comparison only.

2 General requirements and reference publications

2.1 General requirements
General requirements applicable to this Standard are given in CAN/CSA-C22.2 No. 0, unless otherwise specified.