



CSA C22.2 No. 140.3:15

National Standard of Canada
(reaffirmed 2020)



Refrigerant-containing components for use in electrical equipment



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Preface

This is the third edition of CSA C22.2 No. 140.3, *Refrigerant-containing components for use in electrical equipment*. It is 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 2009 and 1987.

For general information on Standards of the *Canadian Electrical Code, Part II*, see the Preface of 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 Household Appliances for Refrigeration, under the jurisdiction of the Technical Committee on Consumer and Commercial Products and the Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the 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.

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.”

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:*
 - 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) *where possible, phrase the request in such a way that a specific “yes” or “no” answer will address the issue.*

Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are available on the Current Standards Activities page at standardsactivities.csa.ca.
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 - a) *Standard designation (number);*
 - b) *relevant clause, table, and/or figure number;*
 - c) *wording of the proposed change; and*
 - d) *rationale for the change.*

CSA C22.2 No. 140.3:15

Refrigerant-containing components for use in electrical equipment

1 Scope

1.1

This Standard applies to refrigerant-containing components that are intended to be used in field-installed refrigerating and/or air-conditioning systems in accordance with CSA B52 and that are charged with the refrigerant identified for use in the components. These components are intended for use in equipment designed to be installed and used in accordance with the rules of the *Canadian Electrical Code, Part I* (CE Code).

1.2

This Standard applies to refrigerant-containing components that are intended for use in factory-assembled refrigerating or air-conditioning equipment and that are also subject to the requirements in the standards applicable to the factory assembled equipment.

1.3

This Standard applies to refrigerant-containing components such as accumulators, condensers, evaporators, dryers, filters, heat exchangers, oil separators, liquid receivers, mufflers, liquid indicators, vibration eliminators, strainers, fusible plugs, and rupture members.

1.4

This Standard does not apply to

- a) electric valves, electric refrigeration controllers, refrigerant motor-compressors; or
- b) electrical components of assemblies incorporating these refrigerant-containing components or accessories.

1.5

This Standard does not apply to refrigerant-containing components that are within the scope of CSA B51, such as pressure vessels.

1.6

The values given in SI (metric) units are the standard. The values given in parentheses are for information only.

1.7

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.