

# Refrigerant-containing components for use in electrical equipment



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in electrical equipment***



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# Preface

This is the second 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 the Canadian Standards Association under Part II of the *Canadian Electrical Code*. It supersedes the previous edition published in 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 Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the Technical Committee on Consumer and Commercial Products.

**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."

September 2009

## 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.  
Requests for interpretation should
  - (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](http://www.csa.ca).

# *C22.2 No. 140.3-09*

## ***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 systems in accordance with CSA B52 and that are charged with the refrigerant identified for use in the components.

#### **1.2**

This Standard applies to refrigerant-containing components that are intended for use in factory-assembled refrigeration or air-conditioning equipment and that are bound also by the pertinent requirements of CSA C22.2 Standards.

#### **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, or hermetic 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.

#### **1.6**

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

#### **1.7**

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; “may” is used to express an option or that which is permissible within the limits of the standard; and “can” is used to express possibility or capability. 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 (non-mandatory) to define their application.