



CSA C22.2 No. 128:16
National Standard of Canada
(reaffirmed 2020)



Vending machines



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Preface

This is the fourth edition of CSA C22.2 No. 128, *Vending machines*. It is one of a series of Standards issued by CSA Group under Part II of the *Canadian Electrical Code*. It supersedes previous editions published in 1995, 1990, and 1963.

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*.

The major differences between this edition and the previous edition include

- a) the addition of new requirements to prevent fire/shock and mechanical hazards;
- b) new requirements for permanently-connected vending machines;
- c) a new requirement for wiring to external accessories;
- d) a new requirement for electronic protected motors;
- e) new requirements for water heaters;
- f) new requirements for transformers and power supplies;
- g) new requirements for protection against excessive pressure and pressure limiting devices;
- h) the addition of accelerated aging test requirements for gaskets and non-metallic materials; and
- i) the addition of and revision to impact test requirements, as well as the addition of a spill test.

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 Safety of Household Electrical Appliances, under the jurisdiction of the Technical Committee on Consumer and Commercial 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.

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.

- 5) *This Standard is subject to review within 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;*
 - d) *rationale for the change.*

CSA C22.2 No. 128:16

Vending machines

1 Scope

1.1

This Standard applies to self-contained vending machines designed to be installed and used in commercial applications in nonhazardous locations in accordance with the Rules of the *Canadian Electrical Code, Part I*.

1.2

This Standard applies to both refrigerated and non-refrigerated vending machines rated 250 V or less, single-phase.

1.3

This Standard applies to vending machines designed for indoor or outdoor use.

1.4

This Standard also applies to self-contained coin, currency, or credit mechanisms, rated at not more than 250 V, single-phase, intended to be factory- or field-installed in vending machines.

1.5

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.

1.6

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 (non-mandatory) 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 listed below, including all amendments published thereto.