



**CSA
Group**

C22.2 No. 269.2-13

Surge protective devices — Type 2 — Permanently connected

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Standards Update Service

C22.2 No. 269.2-13

June 2013

Title: *Surge protective devices — Type 2 — Permanently connected*

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C22.2 No. 269.2-13
***Surge protective devices — Type 2 —
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TMA trade-mark of the Canadian Standards Association, operating as "CSA Group"

*Published in June 2013 by CSA Group
A not-for-profit private sector organization
5060 Spectrum Way, Suite 100, Mississauga, Ontario, Canada L4W 5N6*

*To purchase standards and related publications, visit our Online Store at shop.csa.ca
or call toll-free 1-800-463-6727 or 416-747-4044.*

ISBN 978-1-77139-249-5

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Preface

This is the first edition of CSA C22.2 No. 269.2, *Surge protective devices – Type 2 – Permanently connected*, one of a series of Standards that deal with surge protection. This Standard is the first in a series of five standards dealing with surge protective devices. Upon publication of the entire series, the requirements of these Standards will supersede CSA TIL I-11B on surge protection. This Standard is issued by the Canadian Standards Association under Part II of the *Canadian Electrical Code*.

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

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 Surge Protective Devices, 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.”

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 periodic review, and 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. 269.2-13

Surge protective devices — Type 2 — Permanently connected

1 Scope

1.1

This Standard applies to surge protective devices (SPDs) intended for

- a) permanently connected applications designed for limiting surge voltages and discharging surge currents;
- b) use on 50/60 Hz circuits over 42 V and up to 750 V ac;
- c) installation on the load side of the main overcurrent protective device; and
- d) indoor or outdoor use in accordance with the *Canadian Electrical Code, Part I*.

1.2

Equipment designed solely for other power disturbances such as notches, sags, and noise is not within the scope of this document.

1.3

SPDs discussed in this Standard contain at least one voltage limiting or voltage switching component for diverting surge currents or dissipating surge energy, or both. Examples of such components are metal oxide varistors, silicon avalanche diodes, spark gaps and gas discharge tubes. Ferroresonators, motor-generators, uninterruptible power supplies, and filters containing only inductive or capacitive components are not considered SPDs in this standard.

1.4

General requirements applicable to this Standard are given in the latest edition of CAN/CSA-C22.2 No. 0.

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.