



**CSA
Group**

C22.2 No. 229-17

Switching and metering centres



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Standards Update Service

C22.2 No. 229-17
March 2017

Title: *Switching and metering centres*

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The **List ID** that you will need to register for updates to this publication is **2425016**.

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C22.2 No. 229-17
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*Published in March 2017 by CSA Group
A not-for-profit private sector organization
178 Rexdale Boulevard, Toronto, Ontario, Canada M9W 1R3*

*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 978-1-4883-0684-6

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Preface

This is the second edition of CSA C22.2 No. 229, *Switching and metering centres*, one of a series of Standards issued by CSA Group under Part II of the *Canadian Electrical Code*. It supersedes the previous edition published in 1988.

Changes implemented from the previous edition include a change in scope to permit hot metering as allowed for under Rule 6-402 of the *Canadian Electrical Code Part I*, a new section on barriers and new barrier tables, an updated test circuit diagram and numerous other minor updates throughout.

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 Switching and Metering Centres, 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 CSA committee interpretation has not already been published, CSA Group’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 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.*

C22.2 No. 229-17

Switching and metering centres

1 Scope

1.1

This Standard applies to switching and metering centres (hereafter may be referred to for convenience as metering centres or centres) rated 600 V and less, intended to be used in accordance with the Rules of the *Canadian Electrical Code, Part I*, in nonhazardous locations, to provide switching, overcurrent protection and metering for a number of circuits supplied from a consumer service. The centres may also include the service compartment.

1.2

This Standard applies to centres that

- a) have the individual circuit overcurrent devices connected on the supply side of the meter-mounting devices; or
- b) have the individual circuit overcurrent devices connected on the load side of the meter-mounting devices for devices where the voltage between conductors does not exceed 300 V ac.

1.3

A centre as covered by this Standard consists of individual metering sections containing meter-mounting devices and circuit breakers or fusible switches or having provision for mounting such circuit breakers or fusible switches, and the following components, which may be either factory or field assembled to each other:

- a) mains terminal section (connection box) or main switch or main circuit breaker section;
- b) elbow assemblies;
- c) subfeed terminal sections; and
- d) main busbars or linkages, or both.

1.4

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.