# CSA C22.2 No. 60320-1:19
(IEC 60320-1:2015, MOD)
National Standard of Canada

# CSA C22.2 No. 60320-1:19
# Appliance couplers for household and similar general purposes — Part 1: General requirements
(IEC 60320-1:2015, MOD)



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# *Revision History*

**CSA C22.2 No. 60320-1:19, Appliance couplers for household and similar general purposes — Part 1: General requirements** — originally published February 2019

**Note:** *For information about the* ***Standards Update Service*** *or if you are missing any updates go to* ***store.csagroup.org*** *or* ***techsupport@csagroup.org****.*

| **Update No. 1 — February 2020** | **Revision symbol (in margin)** |
|---|---|
| Title page, copyright page, Contents, Preface, and Clauses 5.3DV and 5.4DV<br><br>**Note:** *Only the revised pages have been provided.* | \| |

*National Standard of Canada*

# *CSA C22.2 No. 60320-1:19*
# ***Appliance couplers for household and similar general purposes — Part 1: General requirements***
*(IEC 60320-1:2015, MOD)*

**Note:** *For brevity, this Standard will be referred to as "CSA C22.2 No. 60320-1" throughout.*

FEBRUARY 15, 2019

(Title Page Reprinted: February 17, 2020)

This national standard is based on publication IEC 60320-1, Third Edition (2015).

*Prepared by*
*International Electrotechnical Commission*

*Reviewed by*

**CSA Group**
**CSA C22.2 No. 60320-1:19**
Second Edition
(IEC 60320-1:2015, MOD)

**Underwriters Laboratories Inc.**
**UL 60320-1**
Third Edition

**ICS 29.120.30**

**ANSI/UL 60320-1-2020**

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**CONTENTS**

# Preface

This is the harmonized CSA Group and UL standard for Appliance Couplers for Household and Similar General Purposes - Part 1: General Requirements. It is the second edition of CSA-C22.2 No. 60320-1, and the third edition of UL 60320-1. This edition of CSA-C22.2 No. 60320-1 supersedes the previous edition published on May 12, 2011. This edition of UL 60320-1 supersedes the previous edition published on May 12, 2011. This harmonized standard has been jointly revised on February 17, 2020. For this purpose, CSA Group and UL are issuing revision pages dated February 17, 2020.

This harmonized standard is based on IEC Publication 60320-1: third edition, Appliance Couplers for Household and Similar General Purposes – Part 1: General Requirements issued June 2015, as revised by corrigendum 1 issued January 2016. IEC 60320-1 is copyrighted by the IEC.

This harmonized standard was prepared by the CSA Group and Underwriters Laboratories Inc. (UL). The efforts and support of the Technical Harmonization Subcommittee, [THSC 23BC-9, Appliance Couplers] on the Harmonization of Electrotechnical Standards of the Nations of the Americas (CANENA), are gratefully acknowledged.

This standard is considered suitable for use for conformity assessment within the stated scope of the standard.

This standard was reviewed by the CSA Integrated Committed on Wiring Devices, under the jurisdiction of the CSA Technical Committee on Wiring Products and the CSA Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the CSA 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 by CSA Group.

### Application of Standard

Where reference is made to a specific number of samples to be tested, the specified number is to be considered a minimum quantity.

Note: 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.

### Level of Harmonization

This standard adopts the IEC text with national differences.

This standard is published as an equivalent standard for CSA Group and UL.

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All national differences from the IEC text are included in the CSA Group and UL versions of the standard. While the technical content is the same in each organization's version, the format and presentation may differ.

a) a failure occurs to one of the three test samples when tested in accordance with Clauses 19, 20 or 21, in which case the tests are repeated from Clause 16 onwards; or

b) a failure occurs to one of the three test samples when tested in accordance with Clauses 22 or 23 (except 22.3), in which case the tests are repeated from Clause 18 onwards.

The applicant may submit, together with the first set of test samples, the additional set which may be wanted should one test sample fail. The testing station will then, without further request, test the additional test samples and will only reject if a further failure occurs. If the additional set of test samples is not submitted at the same time, a failure of one test sample will entail a rejection.

**5.3DV D1 *Delete Clause 5.3:***

**This clause is not applicable.**

### 5.4 Routine tests

Routine tests are specified in Annex B.

**5.4DV D1 *National Difference Deleted***

## 6 Standard ratings

6.1 The maximum permitted rated voltage is 250 V.

6.2 The maximum permitted rated current is 16 A.

Preferred rated currents for appliance couplers are 0,2 A, 2,5 A, 6 A, 10 A and 16 A.

NOTE For details of standard type ratings refer to IEC 60320-3.

**6DV D1 *Modify Clause 6 by replacing it with the following:***

**The standard rated voltage and current shall be the North American rating in accordance with Table 1ADV. Furthermore, references throughout this standard to configuration sheets shall be associated with the North American ratings in Table 1ADV. This applies to all standard sheets and figures.**

**Compliance with this requirement shall be determined by visual inspection of the marking.**

# *Standards Update Service*

## *CSA C22.2 No. 60320-1:19*
## *February 2019*

**Title:** *Appliance couplers for household and similar general purposes — Part 1: General requirements*

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International Standard IEC 60320-1 has been prepared by subcommittee 23G: Appliance couplers, of IEC technical committee 23: Electrical accessories.

This third edition cancels and replaces the second edition published in 2001 and Amendment 1:2007. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) Standard sheets moved from IEC 60320-1 to IEC 60320-3.

b) Clarification of requirements for non-standardized appliance couplers.

The text of this standard is based on the following documents:

| FDIS | Report on voting |
|---|---|
| 23G/345/FDIS | 23G/346/RVD |

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the parts in the IEC 60320 series, under the general title *Appliance couplers for household and similar general purposes*, can be found on the IEC website.

Part 1 is to be used in conjunction with the following parts of the IEC 60320 series, if applicable.

IEC 60320-2-1, *Appliance couplers for household and similar general purposes – Part 2-1: Sewing machine couplers*

IEC 60320-2-3, *Appliance coupler for household and similar general purposes – Part 2-3: Appliance coupler with a degree of protection higher than IPX0*

IEC 60320-2-4, *Appliance couplers for household and similar general purposes – Part 2-4: Couplers dependent on appliance weight for engagement*

IEC 60320-3, *Appliance couplers for household and similar general purposes – Part 3: Standard sheets and gauges*

NOTE If these standards are referring to another edition of IEC 60320-1, that edition is applicable.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "http://webstore. iec. ch" in the data related to the specific publication. At this date, the publication will be

• reconfirmed,

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• replaced by a revised edition, or

• amended.

**101DV DE *Modification: Add the following to the IEC Foreword:***

**The numbering system in the standard uses a space instead of a comma to indicate thousands and uses a comma instead of a period to indicate a decimal point. For example, 1 000 means 1,000 and 1,01 means 1.01.**

# APPLIANCE COUPLERS FOR HOUSEHOLD AND SIMILAR GENERAL PURPOSES – Part 1: General requirements

## 1 Scope

This part of IEC 60320 sets the general requirements for appliance couplers for two poles and two poles with earth contact and for the connection of electrical devices for household and similar onto the mains supply.

This part of IEC 60320 is also valid for appliance inlets/appliance outlets integrated or incorporated in appliances.

The rated voltage does not exceed 250 V (a.c.) and the rated current does not exceed 16 A.

Appliance couplers complying with this part of IEC 60320 are suitable for normal use at ambient temperatures not normally exceeding +40 °C, but their average over a period of 24 h does not exceed +35 °C, with a lower limit of the ambient air temperature of –5 °C.

Appliance couplers are not suitable for

– use in place of plug and socket-outlet systems according to IEC 60884-1.

– use in place of devices for connecting luminaires (DCLs) according to IEC 61995 or luminaire supporting couplers (LSCs).

NOTE Requirements for d.c. are under consideration.

**1DV.1 D1** ***Modify Clause 1, third paragraph, by replacing with the following:***

**The rated voltage does not exceed 250 V (a.c.) and the rated current does not exceed 20 A.**

**This standard does not apply directly to the following devices, but supplements the standards applying to such devices:**

**– devices produced integrally with flexible cord or cable, which are covered by CSA C22.2 No. 21 and UL 817.**

**1DV.2 D1** ***Modify Clause 1 by replacing the text of the NOTE with the following:***

**Requirements for d.c. are under consideration and do not apply.**

**1DV.3 DR** ***Modification to add the following after the first paragraph:***

**This standard covers the above-noted products that are intended to be installed or used in accordance with:**

**– CSA C22.1, Canadian Electrical Code, Part 1, in Canada**

**– NFPA 70, National Electrical Code (NEC), in the United States.**