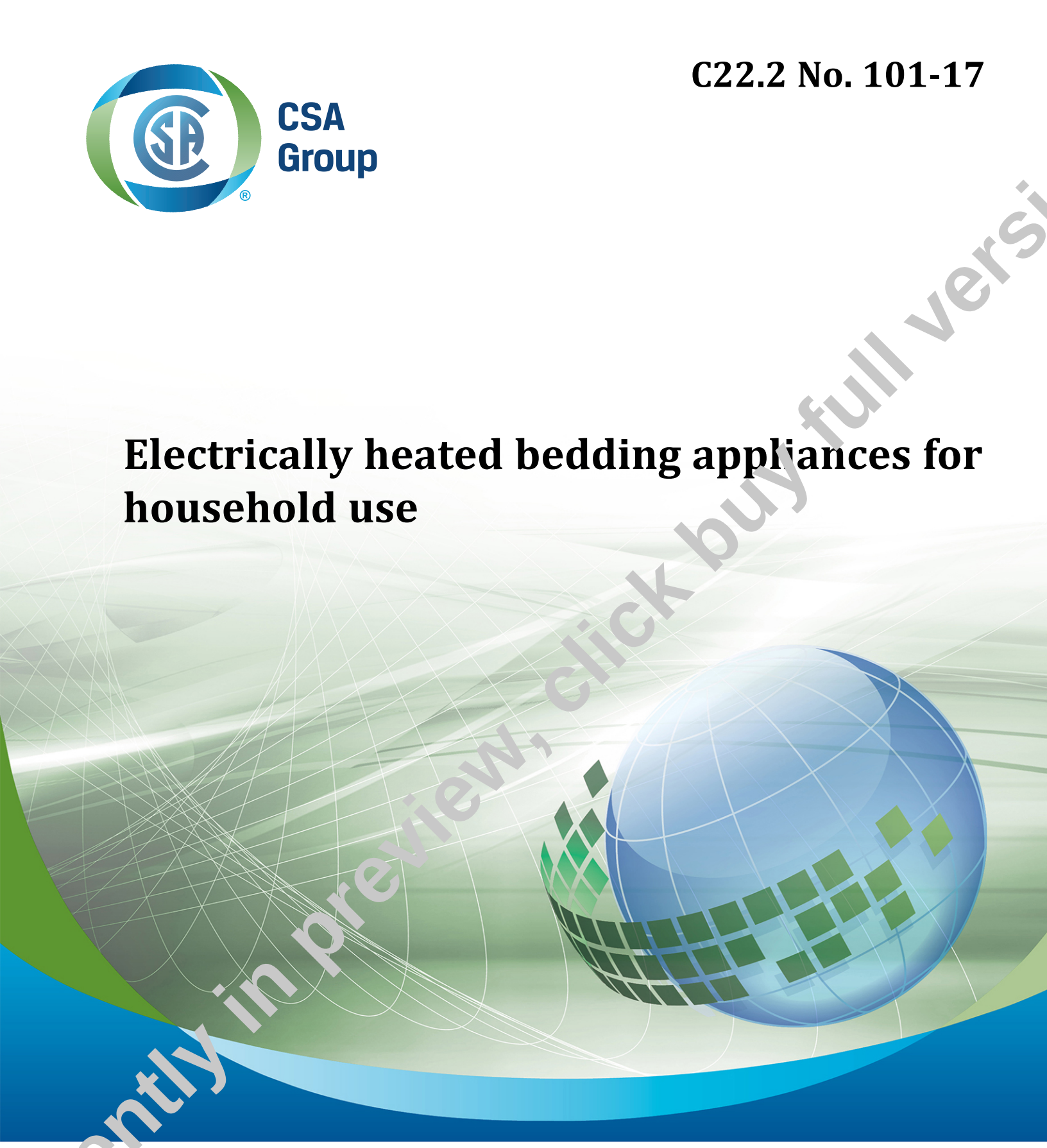
C22.2 No. 101-17

CSA Group

Electrically heated bedding appliances for household use



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Preface

This is the third edition of CSA C22.2 No. 101, *Electrically heated bedding appliances for household use*, one of a series of Standards issued by CSA Group under Part II of the *Canadian Electrical Code*. It supersedes the previous editions published in 1984 and 1958.

The major differences between this edition and the previous edition consist of updates of the flame test requirements and of the reference standards.

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 Electrically Heated Bedding Appliances, under the jurisdiction of the Technical Committee on Consumer and Commercial Products and the Strategic Steering Committee on Requirements for Electrical Safety.

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 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; and*
   d) *rationale for the change.*

C22.2 No. 101-17
Electrically heated bedding appliances for household use

1 Scope

1.1
This Standard applies to cord-connected, electrically heated bedding such as blankets, comforters, quilts, sheets, mattresses, and mattress pads with associated control units, for household use, designed for nominal 120 V ac circuits and to be used in nonhazardous locations in accordance with the Rules of the *Canadian Electrical Code, Part I*.

1.2
This Standard does not apply to bedding having an overall area of less than 1900 cm^2. It does not apply to electrically heated water beds.

1.3
This Standard does not apply to bedding appliances for hotel, motel, or other institutional use.

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.

CSA Group

C22.1-15
Canadian Electrical Code, Part I

C22.2 No. 0-10 (R2015)
General requirements—Canadian Electrical Code, Part II

C22.2 No. 0.3-09 (R2014)
Test methods for electrical wires and cables

CAN/CSA-C22.2 No. 0.17-00 (R2013)
Evaluation of properties of polymeric materials

C22.2 No. 21-14
Cord sets and power-supply cords

C22.2 No. 8-13
Electromagnetic interference (EMI) filters

C22.2 No. 42-10 (R2015)
General use receptacles, attachment plugs, and similar wiring devices

CAN3-C235- 83 (R2015)
Preferred voltage levels for AC systems, 0 to 50 000 V

ASTM International
D648-07
Standard Test Method for Deflection Temperature of Plastics Under Flexural Load

D1230-10
Standard test method for flammability of apparel textiles

CGSB (Canadian General Standards Board)
CAN/CGSB-886.1-M87
Care Labelling of Textiles.

3 Definitions

The following definitions shall apply in this Standard:

Automatic — having some form of temperature control
Note: *Temperature-limiting thermostats are not included.*

Bedding — a blanket, comforter, sheet, quilt, mattress, mattress pad, etc., including the electrical parts in it.

Bedding appliance — the complete assembly of bedding and control unit.

Blanket shell — the textile enclosure housing the heater element and the thermostats.

Heater element — the complete assembly of the heating element wire, the core on which the element is wound, overheat sensing wire and material, if any, and the covering insulation.

Temperature-limiting thermostat — a thermostat that functions only under conditions that produce abnormal temperatures.
Note: *The failure of such a thermostat might result in a fire hazard.*

Temperature-regulating thermostat — a thermostat that functions only to regulate the temperature of the equipment under normal conditions of use and is not relied on for prevention of a fire hazard.

4 Construction

4.1 General

4.1.1

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

