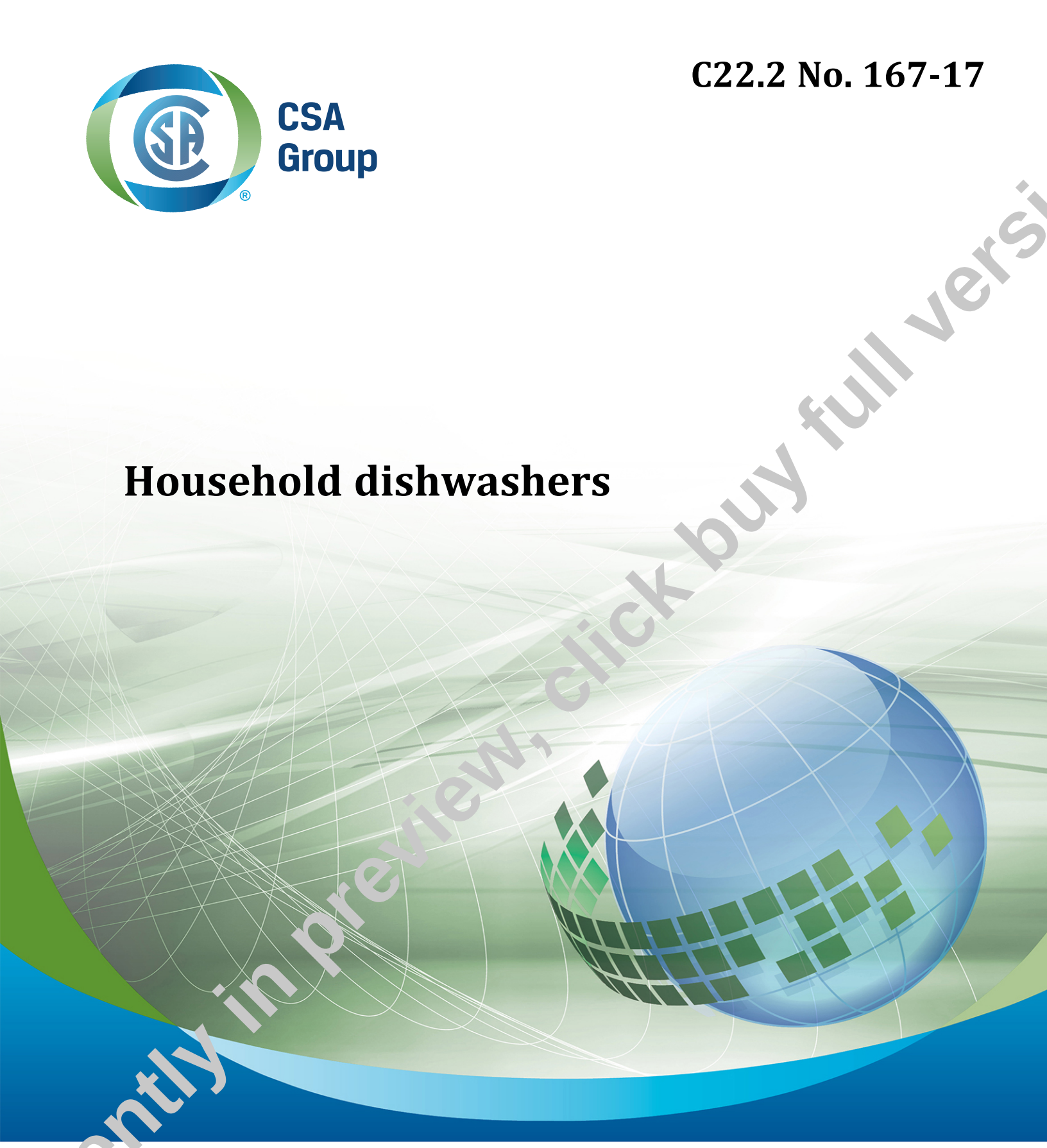
C22.2 No. 167-17

CSA Group

Household dishwashers



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CSA Group
CSA C22.2 No. 167-17
Seventh Edition

Underwriters Laboratories Inc.
UL 749
Tenth Edition

Household Dishwashers

March 16, 2017

ANSI/UL 749-2017

Commitment for Amendments

This standard is issued jointly by the Canadian Standards Association (operating as "CSA Group") and Underwriters Laboratories Inc. (UL). Comments or proposals for revisions on any part of the standard may be submitted to CSA Group or UL at any time. Revisions to this standard will be made only after processing according to the standards development procedures of CSA Group and UL. CSA Group and UL will issue revisions to this standard by means of a new edition or revised or additional pages bearing their date of issue.

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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: Standard desgination (number); relevant clause, table, and/or figure number; wording of the proposed change; and rationale for the change.

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This ANSI/UL Standard for Safety consists of the Tenth edition.

The most recent designation of ANSI/UL 749 as an American National Standard (ANSI) occurred on March 16, 2017. ANSI approval for a standard does not include the Cover Page, Transmittal Pages and Title Page.

The Department of Defense (DoD) has adopted UL 749 on August 2, 1994. The publication of revised pages or a new edition of this Standard will not invalidate the DoD adoption.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS), at https://csds.ul.com.

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Preface

This is the harmonized CSA Group and UL Standard for Household Dishwashers. It is the seventh edition of CSA C22.2 No. 167, and the tenth edition of UL 749. This edition of CSA C22.2 No. 167 supersedes the previous edition published in 2013. This edition of UL 749 supersedes the previous edition published in 2013.

The major differences between this edition and the previous edition include the addition of requirements for DC Electric Test Voltages, Smart Enabled Appliances, Dishwasher Ignition Containment, Ozone Generating Dishwashers, Dishwasher Rinse Agent Exposure, Plumbing for Household Dishwashers, Dishwasher Heating Element Test and Nichrome Wire Test.

This harmonized Standard was prepared by CSA Group and Underwriters Laboratories Inc. (UL).

The efforts and support of the Harmonization Committee for Household Dishwashers and the Association of Home Appliance Manufactures (AHAM) 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 Subcommittee on Household Dishwashers, under the jurisdiction of the Technical Committee on Consumer and Commercial 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 approved by the American National Standards Institute (ANSI) as an American National Standard.

Application of Standard

Where reference is made to a specific number of samples to be tested, the specified number shall 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 is published as an identical standard for CSA Group and UL.

An identical standard is a standard that is exactly the same in technical content except for national differences resulting from conflicts in codes and governmental regulations. Presentation is word for word except for editorial changes.

Interpretations

The interpretation by the standards development organization of an identical or equivalent standard is based on the literal text to determine compliance with the standard in accordance with the procedural rules of the standards development organization. If more than one interpretation of the literal text has been identified, a revision is to be proposed as soon as possible to each of the standards development organizations to more accurately reflect the intent.

Household dishwashers

1 Scope

1.1 This Standard applies to electric household dishwashers intended to be used in nonhazardous locations in accordance with the Canadian Electrical Code (CEC), Part I, C22.1, General Requirements – Canadian Electrical Code (CEC), Part II, C22.2, and the National Electrical Code (NEC), NFPA 70, on circuits having a nominal voltage not exceeding 250 V.

1.2 This Standard applies to both cord-connected appliances and permanently-connected appliances.

1.3 This Standard applies to smart-enabled household dishwashers that are intended to receive and respond to communication signals or data relating to power billing rate or demand response, or communication signals from a remote user interface such as a smart phone or computer. See Supplement SB.

1.4 This Standard applies to household dishwashers generating ozone during normal operation. See Supplement SC.

1.5 This Standard does not apply to commercial appliances. Commercial appliances are covered under the scope of the Standard for Commercial Dishwashing Machines, CSA C22.2 No. 168, or the Standard for Commercial Dishwashers, UL 921.

2 Reference Publications

2.1 Where reference is made to any Standards, such reference shall be considered to refer to the latest editions and revisions thereto available at the time of printing, unless otherwise specified.

CSA Group Standards

B64 Series-11
Backflow preventers and vacuum breakers

B64.1.1-11
Atmospheric Vacuum Breakers (AVB)

C22.1-15
Canadian Electrical Code, Part I

C22.2 No. 0-10 (R2015)
General Requirements – Canadian Electrical Code (CEC), Part II

C22.2 No. 0.1-M1985 (R2013)
General Requirements for Double-Insulated Equipment

C22.2 No. 0.2-93 (R2008)
Insulation Coordination

C22.2 No. 0.3-09 (R2014)
Test Methods For Electrical Wires and Cables

C22.2 No. 0.8-12
Safety Functions Incorporating Electronic Technology

C22.2 No. 0.15-15
Adhesive Labels

CAN/CSA-C22.2 No. 0.17-00 (R2013)
Evaluation of Properties of Polymeric Materials

C22.2 No. 8-13
Electromagnetic Interference (EMI) Filters

C22.2 No. 14-13
Industrial Control Equipment

CAN/CSA-C22.2 No. 18.1-13
Metallic Outlet Boxes

C22.2 No. 18.2-06 (R2011)
Nonmetallic Outlet Boxes

CAN/CSA-C22.2 No. 18.3-12
Conduit, Tubing, and Cable Fittings

CAN/CSA-C22.2 No. 18.5-13
Positioning Devices

C22.2 No. 21-14
Cord Sets and Power Supply Cords

C22.2 No. 24-15
Temperature-Indicating and -Regulating Equipment

C22.2 No. 38-14
Thermoset-Insulated Wires and Cables

C22.2 No. 39-13
Fuseholder Assemblies

C22.2 No. 42-10 (R2015)
General Use Receptacles, Attachment Plugs, and Similar Wiring Devices

CAN/CSA-C22.2 No. 42.1-13
Cover Plates for Flush-Mounted Wiring Device

C22.2 No. 43-08 (R2013)
Lampholders

C22.2 No. 49-14
Flexible Cords and Cables

C22.2 No. 55-15
Special Use Switches

CAN/CSA-C22.2 No. 65-13
Wire Connectors

C22.2 No. 66.2-06 (R2011)
Low Voltage Transformers – Part 2: General Purpose Transformers

C22.2 No. 66.3-06 (R2011)
Low Voltage Transformers – Part 3: Class 2 and Class 3 Transformers

C22.2 No. 72-10 (R2014)
Heater Elements

CAN/CSA-C22.2 No. 74-96 (R2015)
Equipment for Use with Electric Discharge Lamps

C22.2 No. 75-14
Thermoplastic-Insulated Wires and Cables

C22.2 No. 77-14
Motors with Inherent Overheating Protection

C22.2 No. 100-14
Motors and Generators

C22.2 No. 107.1-01 (R2011)
General Use Power Supplies

CAN/CSA-C22.2 No. 108-14
Liquid Pumps

C22.2 No. 111-10 (R2015)
General-Use Snap Switches

C22.2 No. 127-09 (R2014)
Equipment and Lead Wires

C22.2 No. 139-13
Electrically Operated Valves

C22.2 No. 144-M91 (R2011)
Ground Fault Circuit Interrupters

C22.2 No. 153-14
Electrical Quick-Connect Terminals

C22.2 No. 156-M1987 (R2013)
Solid-State Speed Controls

C22.2 No. 158-10
Terminal Blocks

C22.2 No. 168-16
Commercial Dishwashers