



**CSA
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C22.2 No. 167-17

Household dishwashers

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Seventh Edition



Underwriters Laboratories Inc.
UL 749
Tenth Edition

Household Dishwashers

March 16, 2017



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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.

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CONTENTS

Preface	8
1 Scope	9
2 Reference Publications	9
3 Definitions	20
4 General Requirements	23
5 General Conditions for the Tests	24
5.1 Voltage and frequency	24
5.2 Cheesecloth for heating and abnormal tests	25
5.3 Test temperature	25
5.4 Thermocouples	25
5.5 Dishwashing detergent	25
5.6 Rinse agent	26
5.7 Place setting	26
5.8 High-sudsing detergent	26
5.9 Water temperature	26
6 Classification	26
7 Marking	26
7.1 General	26
7.2 Appliance markings	28
8 Instructions	31
8.1 General	31
8.2 Instructions pertaining to a risk of fire, electric shock, or injury to persons	32
8.3 Installation instructions	34
8.4 Operating instructions	35
8.5 User-maintenance instructions	36
9 Protection Against Accessibility to Current-Carrying Parts	36
9.1 General	36
9.2 Enclosures for other than built-in appliances	36
9.3 Enclosures for built-in appliances	38
9.4 All dishwashers	38
10 Starting of Motor-Operated Appliances	38
11 Power Input and Current	39
12 Heating	39
13 Leakage Current	40
14 Insulation Resistance	40
15 Moisture Resistance	41
15.1 General	41
15.2 Humidity conditioning	42
15.3 Liquid overflowing from an auxiliary reservoir	42
15.4 Oversudsing	43
15.5 Liquid spillage – all appliances	43
15.6 Liquid spillage – portable appliances	44
15.7 Wetting of electrical components	45
15.8 Rain test	46
15.9 Hose rupture test	47
15.10 Liquid leaking from an auxiliary reservoir	48
16 Electric Strength	49
17 Abnormal Operation	49
17.1 Burnout test on components	49

17.2	Stopped timer	50
17.3	Cord reels	51
17.4	Nichrome wire test	52
18	Stability and Mechanical Hazards	54
18.1	General	54
18.2	Stability	54
18.3	Sharp edges	54
18.4	Automatic restarting of the motor	55
18.5	Moving parts	55
18.6	Guards, interlocks, and the like	55
18.7	Unintentional operation	56
19	Mechanical Strength	57
19.1	General	57
19.2	Frame and enclosure	57
20	Construction	58
20.1	Current-carrying parts	58
20.2	Bottom openings	59
20.3	Electrical insulation	61
20.4	Sound and thermal insulation	62
20.5	Plumbing requirements	62
21	Internal Wiring	62
21.1	General	62
21.2	Splices and connections	64
21.3	Separation of circuits	65
21.4	Barriers	65
21.5	Endurance test	66
22	Components	66
22.1	General	66
22.2	Mechanical assembly	68
22.3	Capacitors	68
22.4	Field-attached or optional accessories	69
22.5	Heating elements	70
22.6	Lampholders	71
22.7	Motors	71
22.8	Receptacles	72
22.9	Seals and diaphragms	72
22.10	Switches	73
22.11	Controls	74
22.12	Connecting hoses	78
22.13	Transformers and power supplies	79
22.14	Overcurrent protection	79
22.15	Electrically operated valves	79
22.16	Terminals and connectors	79
22.17	Pumps	80
22.18	Insulating devices	80
22.19	Adhesives used to secure parts	80
22.20	Equipment protective devices	81
23	Supply Connection and External Flexible Cords	81
23.1	Permanently connected appliances	81
23.2	Cord-connected appliances	82
23.3	Push-back relief	84
23.4	Strain relief	85
23.5	Cord reels	85

23.6	Power-supply cord kits for use with undercounter or built-in dishwashers	86
23.7	Bushings	86
24	Terminals for External Conductors	86
25	Provision for Grounding	87
25.1	General	87
25.2	Bonding means	89
25.3	Continuity of grounding circuit	90
25.4	Grounding terminals and leads	90
25.5	Heater sheaths	91
26	Screws and Connections	92
27	Creepage Distances, Clearances, and Distances through Insulation	92
28	Alternative Spacings-Clearances and Creepage Distances	93
29	Resistance to Corrosion	94
29.1	General	94
29.2	Liquid containers	94
29.3	Outdoor use dishwashers (protected locations and outdoor locations)	95
29.4	Metallic coating thickness test	97
30	Resistance to Heat, Fire, and Cracking – Polymeric Materials	97
30.1	General	97
30.2	Horizontal burning rate	98
30.3	Flammability	98
30.4	Enclosure flammability – large mass consideration	100
30.5	Impact test	101
30.6	Cold impact	101
30.7	Mould stress relief	101
30.8	Immersion	102
30.9	Thermal ageing	102
30.10	Long-term exposure	103
30.11	Endurance	104
30.12	Tensile strength	104
30.13	Tensile impact energy	105
30.14	Seal and gasket tests for outdoor use appliances	105
30.15	Ultraviolet light exposure	106
30.16	Water exposure and corrosion	106
31	Manufacturing and Production Tests	106
31.1	Grounding continuity test	106
31.2	Electric strength test	107
TABLES		108
FIGURES		114

SUPPLEMENT S1 - Plumbing Requirements for Household Dishwashers (Normative)

SA1	Scope	127
SA2	Glossary	127
S. 3	General Requirements	127
SA4	Test Procedures	128
SA4.1	General	128
SA4.2	Initial cycle	128
SA4.3	Preparation and test	129

SUPPLEMENT SB - Safety of Smart Enabled Dishwashers

SB1	Scope	131
SB2	General	131
	SB2.1 Controls	131
	SB2.2 Separation of circuits	132
	SB2.3 Communication and display devices	133
	SB2.4 Communication conductors and cables	133
	SB2.5 Communication connectors	133
	SB2.6 Smart enabled or remote operation	133
SB3	Functional Safety	134
SB4	Resistance to Electro Magnetic Phenomena (Immunity)	135
SB5	Markings and Instructions	136

SUPPLEMENT SC - Ozone Generating Dishwashers

SC1	Scope	137
SC2	General	137
	SC2.1 Ozone test	137
	SC2.2 Equipment specifications	138
	SC2.3 Test conditions	138
SC3	Marking and Instructions	138
SC4	Polymeric Materials Exposed to Ozone	138
SC5	Seals and Diaphragms	139
SC6	Protection Against Injury to Persons	139

SUPPLEMENT SD - ALTERNATIVE ELECTRONIC CIRCUIT REQUIREMENTS

SD1	Scope	141
SD2	General	141
SD3	Glossary	142
SD4	Creepage Distances, Clearances, and Distances Through Insulation	143
SD5	Control Functions	143
	SD5.1 Protective electronic circuits/controls	143
	SD5.2 Operating controls or circuits that perform safety critical functions	144
SD6	Evaluation of the Different Types of Control Circuits	144
	SD6.1 All types of circuits	144
SD7	Protective Electronic Circuits	144
SD8	Operating Controls or Circuits that Perform Safety Critical Functions	145
SD9	General Conditions for the Tests	146
	SD9.1 Details	146
	SD9.2 Intentionally weak parts	146
	SD9.3 Test results determined by overcurrent protection operation	147
SD10	Low-Power Circuits	147
	SD10.1 Low-power circuit determination	147
	SD10.2 Low-power circuit fire tests	149
SD11	Abnormal Operation and Fault Tests	149
SD12	Programmable Component Reduced Supply Voltage Test	151
SD13	Electromagnetic Compatibility (EMC) Requirements – Immunity	151

SD14 Manufacturing and Production Line Testing153
SD15 Markings153

Annex A (informative) Translations

A1 French Translations154

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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