BS EN IEC 60335-2-14:2023+A11:2023



BSI Standards Publication

Household and similar electrical appliances — Safety

Part 2-14: Particular requirements for kitchen machines

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National foreword

This British Standard is the UK implementation of EN IEC 60335-2-14:2023+A11:2023. It is derived from IEC 60335-2-14:2016, incorporating amendment 1:2019. It supersedes BS EN 60335-2-14:2006+A12:2016, which will be withdrawn on 27 October 2026.

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The UK participation in its preparation was entrusted to Technical Committee CPL/61/1, Motorised appliance group.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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English Version

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Appareils électrodomestiques et analogues - Sécurité - Partie 2-14: Exigences particulières pour les machines de cuisine
(IEC 60335-2-14:2016)

Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke - Teil 2-14: Besondere Anforderungen für Küchenmaschinen
(IEC 60335-2-14:2016)

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European Committee for Electrotechnical Standardization
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European foreword

This document (EN IEC 60335-2-14:2023) consists of the text of IEC 60335-2-14:2016 prepared by IEC/TC 61 "Safety of household and similar electrical appliances".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2024-04-27
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European foreword to amendment A1

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European foreword to amendment A11

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The numbering system for European clauses, subclauses, notes, tables, figures and annexes that are additional to those in the IEC standard are prefixed with the letter “Z”.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-14: Particular requirements for kitchen machines

FOREWORD

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International Standard IEC 60335-2-14 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

This sixth edition constitutes a technical revision.

The principal changes in this edition as compared with the fifth edition of IEC 60335-2-14 are as follows (minor changes are not listed):

- requirements for **noodle makers** with a mixing function have been introduced (3.1.9.116, 11.7.118, 19.103);
- requirements for appliances having a feed screw or auger have been changed (20.106);
- the definition of normal operation has been changed (3.1.9);
- the method of carrying out the heating test has been changed (11.7);
- the requirement in 20.114 has been modified to align with the test specification;
- some notes in Subclauses 5.2, 11.7.107, 11.7.110, 11.7.116, 20.103, 20.107, 20.108, 20.117, 20.119, 25.14, and Annex AA were converted to normative text.

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

This part 2 is to be used in conjunction with the latest edition of IEC 60335-1 and its amendments. It was established on the basis of the fifth edition (2010) of that standard.

NOTE 1 When “Part 1” is mentioned in this standard, it refers to IEC 60335-1.

This part 2 supplements or modifies the corresponding clauses in IEC 60335-1, so as to convert that publication into the IEC standard: Safety requirements for electric kitchen machines.

When a particular subclause of Part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

NOTE 2 The following numbering system is used:

– subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
– unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
– additional annexes are lettered AA, BB, etc.

NOTE 3 The following print types are used:

– requirements: in roman type;
– *test specifications: in italic type*;
– notes: in small roman type.

Words in **bold** in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and the associated noun are also in bold.

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The committee has decided that the contents of this publication and its amendment 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,
- withdrawn,
- replaced by a revised edition, or
- amended.

NOTE 4 The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations may need a transitional period following publication of a new, amended or revised IEC publication in which to make products in accordance with the new requirements and to equip themselves for conducting new or revised tests.

It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than 12 months or later than 36 months from the date of publication.

The following differences exist in the countries indicated below.

– 3.1.9: Different loads are used (USA).
– 11.7: The operating times are different (USA).
– 19.7: The test is applicable to all appliances and the tests of 19.101 and 19.102 are not applicable (USA).
– Clause 20: Many of the tests are different (USA).
– 22.103: The test is not conducted (USA).
– 22.104: The specified probe is not applied to knife sharpeners (USA).
– 24.1.3: Switches are required to have 6000 cycles of operation (USA).
– 25.5: Type Z attachment is allowed for all appliances (USA).
– 25.14: The test is not conducted (USA).

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INTRODUCTION

It has been assumed in the drafting of this International Standard that the execution of its provisions is entrusted to appropriately qualified and experienced persons.

This standard recognizes the internationally accepted level of protection against hazards such as electrical, mechanical, thermal, fire and radiation of appliances when operated as in normal use taking into account the manufacturer's instructions. It also covers abnormal situations that can be expected in practice and takes into account the way in which electromagnetic phenomena can affect the safe operation of appliances.

This standard takes into account the requirements of IEC 60364 as far as possible so that there is compatibility with the wiring rules when the appliance is connected to the supply mains. However, national wiring rules may differ.

If an appliance within the scope of this standard also incorporates functions that are covered by another part 2 of IEC 60335, the relevant part 2 is applied to each function separately, as far as is reasonable. If applicable, the influence of one function on the other is taken into account.

When a part 2 standard does not include additional requirements to cover hazards dealt with in Part 1, Part 1 applies.

NOTE 1 This means that the technical committees responsible for the part 2 standards have determined that it is not necessary to specify particular requirements for the appliance in question over and above the general requirements.

This standard is a product family standard dealing with the safety of appliances and takes precedence over horizontal and generic standards covering the same subject.

NOTE 2 Horizontal and generic standards covering a hazard are not applicable since they have been taken into consideration when developing the general and particular requirements for the IEC 60335 series of standards. For example, in the case of temperature requirements for surfaces on many appliances, generic standards, such as ISO 13732-1 for hot surfaces, are not applicable in addition to Part 1 or part 2 standards.

An appliance that complies with the text of this standard will not necessarily be considered to comply with the safety principles of the standard if, when examined and tested, it is found to have other features that impair the level of safety covered by these requirements.

An appliance employing materials or having forms of construction differing from those detailed in the requirements of this standard may be examined and tested according to the intent of the requirements and, if found to be substantially equivalent, may be considered to comply with the standard.

〚A11〉 With European Amendment A11, EN 60335-2-14:2006+Cor:2007+A1:2008+A11:2012+AC: 2016 +A12:2016 is superseded.

This European Amendment A11 supplements or modifies the corresponding clauses of the standards below:

— EN 60335-1:2012+A11:2014+AC:2014+A13:2017+A1:2019+A14:2019+A2:2019+A15:2021+ A16:2023 (Part 1)

— EN IEC 60335-2-14:2023+A1:2023 (Part 2) 〈A11〛

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HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-14: Particular requirements for kitchen machines

1 Scope

This clause of Part 1 is replaced by the following.

This part of IEC 60335 deals with the safety of electric kitchen machines for household and similar purposes, their **rated voltage** being not more than 250 V.

NOTE 101 Examples of appliances that are within the scope of this standard are

- bean slicers;
- berry-juice extractors;
- **blenders**;
- can openers;
- centrifugal juicers;
- churns;
- citrus-fruit squeezers;
- coffee mills not exceeding 500 g hopper capacity;
- cream whippers;
- egg beaters;
- **food mixers**;
- **food processors**;
- grain grinders not exceeding 3 l hopper capacity;
- graters;
- ice-cream machines, including those for use in refrigerators and freezers;
- knife sharpeners;
- knives;
- **mincers**;
- **noodle makers;**
- potato peelers;
- shredders;
- sieving machines;
- slicing machines.

Appliances intended for normal household and similar use and that may also be used by laymen in shops, in light industry and on farms, are within the scope of this standard. However, if the appliance is intended to be used professionally to process food for commercial consumption, the appliance is not considered to be for household and similar use only.

NOTE 102 Use of a kitchen machine in bed and breakfast premises, for example, is considered to be household use.

〈A11〉 As far as is practicable, this document deals with the common hazards presented by appliances that are encountered by all persons in household and similar environments.

However, in general, it does not take into account **children** playing with appliances and their **use** by **very young children**.

It does not take into account the **use** of the following appliances by **young children** and by **older children**:

— bean slicers;

— berry-juice extractors;

— **blenders** and **hand-held blenders**;

— centrifugal juicers;

— coffee mills not exceeding 500 g hopper capacity;

— churns; 〈A11〉

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〈A11〉 — **food mixers**;
— **food processors**;
— grain grinders not exceeding 3 l hopper capacity;
— knife sharpeners;
— knives;
— **mincers**;
— noodle makers;
— potato peelers;
— shredders;
— sieving machines;
— slicing machines.

It furthermore does not take into account the **use** of the following appliances by **young children** without supervision:

— can openers;
— citrus-fruit squeezers;
— cream whippers;
— egg beaters;
— graters;
— ice-cream machines, including those for use in refrigerators and freezers.

It is recognized that **very vulnerable people** can have needs beyond the level addressed in this document. 〈A11〉

NOTE 103 Attention is drawn to the fact that

– for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
– in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities.

NOTE 104 This standard does not apply to

– slicing machines having a circular knife the blade of which is inclined at an angle exceeding 45° to the vertical;
– food waste disposers (IEC 60335-2-16);
– ice-cream appliances with incorporated motor compressors (IEC 60335-2-24);
– kitchen machines intended for commercial purposes (IEC 60335-2-64);
– kitchen machines intended for industrial purposes;
– kitchen machines intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas).

2 Normative references

This clause of Part 1 is applicable except as follows.

Addition:

IEC 60811-504:2012, *Electric and optical fibre cables – Test methods for non-metallic materials – Part 504: Mechanical tests – Bending tests at low temperature for insulation and sheaths*

IEC 60811-505:2012, *Electric and optical fibre cables – Test methods for non-metallic materials – Part 505: Mechanical tests – Elongation at low temperature for insulations and sheaths*

3 Terms and definitions

This clause of Part 1 is applicable except as follows.

3.1.9 *Replacement:*

normal operation
operation of the appliance under the conditions specified in 3.1.9.101 to 3.1.9.119 followed by operation with the most unfavourable load indicated in the instructions.

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If the conditions are not specified, the appliance is operated with the most unfavourable load indicated in the instructions

3.1.9.101 Berry-juice extractors are fed with 1 kg of berries, such as currants, gooseberries or grapes. Pushers are pressed with a force of 5 N against the berries.

3.1.9.102 **Food blenders** are operated with the bowl filled to its maximum indicated level with a mixture comprising two parts by mass of soaked carrots and three parts water. If this level is not indicated, the bowl is filled to two-thirds of its total capacity. The carrots are soaked in water for 24 h and cut so that the dimensions of the pieces do not exceed 15 mm. If the bowl is not provided, a cylindrical bowl is used which has a capacity of approximately 1 l and an inner diameter of approximately 110 mm.

Liquid blenders are operated with water instead of the mixture.

3.1.9.103 Can openers are operated with cans of tinned steel having a diameter of approximately 100 mm.

3.1.9.104 Juicers are operated with carrots that have been soaked in water for approximately 24 h. 5 kg of soaked carrots are gradually fed into juicers having separate outlets for the juice and residue. Other juicers are fed with batches of 0,5 kg of carrots, unless otherwise indicated in the instructions. Pushers are pressed with a force of 5 N against the carrots.

3.1.9.105 Cheese graters are operated with a 250 g piece of hard Parmesan cheese selected from a block of cheese about 16 months old and which has at least one plane surface. A force of 10 N is applied to the cheese unless the force is applied automatically.

3.1.9.106 Churns are filled with a mixture of eight parts by mass of heavy cream and one part of buttermilk. The quantity of the mixture is the maximum that allows the churn to operate without spillage.

3.1.9.107 Citrus-fruit squeezers are operated with orange halves pressed against the reamer with a force of 50 N.

3.1.9.108 Coffee mills having a separate container for collecting the ground coffee are operated with the hopper filled with roasted coffee beans.

Other coffee mills are operated with the hopper filled with the maximum quantity of roasted coffee beans stated in the instructions.

Note 1 to entry: If necessary, the coffee beans are conditioned for 24 h at a temperature of 30 °C ± 2 °C and a relative humidity of 60 % ± 2 %.

Controls are set to the position resulting in the smallest grain size.

3.1.9.109 Cream whippers and egg beaters are operated in water with 80 % of the length of the effective part immersed in a bowl of water.

3.1.9.110 **Food mixers** with beaters for mixing cake batter are operated with the beater blades as close as possible to the bottom of a bowl containing dry sand having a grain size between 170 μm and 250 μm. The height of the sand in the bowl is approximately 80 % of the length of the effective part of the beater.

Food mixers with kneaders for mixing yeast dough are operated with the kneaders in a bowl filled with a mixture of flour and water.

Note 1 to entry: The flour has a protein content of 10 % ± 1 %, based on a negligible water content of the flour and without chemical additives.

Note 2 to entry: In case of doubt, the flour is more than two weeks but less than four months old. It is stored in plastic bags with as little air as possible.

The bowl is filled with a mass of flour in grams equal to 35 % of its capacity in cm^3, 72 g of water at a temperature of 25 °C ± 1 °C being added for each 100 g of flour.

Note 3 to entry: In case of doubt, the quantity of water is 1,2 times that necessary for the consistency of the mixture to be 500 Brabender units at 29 °C ± 1 °C, measured using a farinograph.

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