



BSI Standards Publication

Household and similar electrical appliances — Safety

Part 2-14: Particular requirements for kitchen machines

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 It supersedes BS EN 60335-2-14:2006+A12:2016, which will be withdrawn on 27 October 2026.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to IEC text carry the number of the IEC amendment. For example, text altered by IEC amendment 1 is indicated by A1 A1.

The start and finish of text introduced or altered by amendment A11 is indicated in the text by tags. Tags indicating changes to text carry the number of the CENELEC amendment. For example, text altered by CENELEC amendment A11 is indicated by A11 A11.

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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© The British Standards Institution 2024
Published by BSI Standards Limited 2024

ISBN 978 0 580 89617 0

ICS 13.120; 97.040.50

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 January 2024.

Amendments/corrigenda issued since publication

Date	Text affected
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ICS 13.120; 97.040.50

Supersedes EN 60335-2-14:2006; EN 60335-2-14:2006/corrigendum Feb. 2007; EN 60335-2-14:2006/A1:2008; EN 60335-2-14:2006/A11:2012; EN 60335-2-14:2006/A12:2016; EN 60335-2-14:2006/A11:2012/AC:2016; EN 60335-2-14:2006/FprAD:2021; EN 60335-2-14:2006/A2:201X

English Version

Household and similar electrical appliances - Safety - Part 2-14:
Particular requirements for kitchen machines
(IEC 60335-2-14:2016)

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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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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 (dop) 2024-04-27 implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards (dow) 2026-10-27 conflicting with this document have to be withdrawn

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The text of the International Standard IEC 60335-2-14:2016 was approved by CENELEC as a European Standard without modifications.

European foreword to amendment A1

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- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2024-11-22
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The text of the International Standard IEC 60335-2-14:2016/A1:2019 was approved by CENELEC as a European Standard without any modification.

European foreword to amendment A11

This document (EN IEC 60335-2-14:2023/A11:2023) has been prepared by CLC/TC 61 “Safety of household and similar electrical appliances”.

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This document is read in conjunction with EN IEC 60335-2-14:2023 and EN IEC 60335-2-14:2023/A1:2023.

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”.

Any feedback and questions on this document should be directed to the users’ national committee. A complete listing of these bodies can be found on the CENELEC website.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –**Part 2-14: Particular requirements for kitchen machines**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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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.

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).

IMPORTANT – The “colour inside” logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this publication using a colour printer.

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**

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**

- 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.