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IEC 60335-2-64

Edition 4.0 2021-12  
COMMENTED VERSION

# INTERNATIONAL STANDARD



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**Household and similar electrical appliances – Safety –  
Part 2-64: Particular requirements for commercial electric kitchen machines**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## CONTENTS

FOREWORD .....	4
INTRODUCTION .....	2
1 Scope .....	8
2 Normative references .....	9
3 Terms and definitions .....	9
4 General requirement .....	10
5 General conditions for the tests .....	11
6 Classification .....	11
7 Marking and instructions .....	12
8 Protection against access to live parts .....	14
9 Starting of motor-operated appliances .....	14
10 Power input and current .....	14
11 Heating .....	15
12 <del>Void</del> Charging metal-ion batteries .....	15
13 Leakage current and electric strength at operating temperature .....	15
14 Transient overvoltages .....	16
15 Moisture resistance .....	16
16 Leakage current and electric strength .....	18
17 Overload protection of transformers and associated circuits .....	18
18 Endurance .....	18
19 Abnormal operation .....	18
20 Stability and mechanical hazards .....	18
21 Mechanical strength .....	24
22 Construction .....	25
23 Internal wiring .....	27
24 Components .....	27
25 Supply connection and external flexible cords .....	28
26 Terminals for external conductors .....	28
27 Provision for earthing .....	28
28 Screws and connections .....	29
29 Clearances, creepage distances and solid insulation .....	30
30 Resistance to heat and fire .....	30
31 Resistance to rusting .....	30
32 Radiation, toxicity and similar hazards .....	30
Annexes .....	35
Annex B (normative) Battery-operated appliances, separable batteries and detachable batteries for battery-operated appliances .....	36
Annex N (normative) Proof tracking test .....	

Annex P (informative) Guidance for the application of this standard to appliances used in tropical climates .....	37
Bibliography .....	38
List of comments .....	39
Figure 101 – Splash apparatus .....	32
Figure 102 – Protection devices for slicing machines .....	34
Table 101 – Assembling torques for screwed connections providing earthing continuity .....	29

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

### HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

#### Part 2-64: Particular requirements for commercial electric kitchen machines

#### FOREWORD

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- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

**This commented version (CMV) of the official standard IEC 60335-2-64:2021 edition 4.0 allows the user to identify the changes made to the previous IEC 60335-2-64:2002 +AMD1:2007+AMD2:2017 CSV edition 3.2. Furthermore, comments from IEC TC 61 experts are provided to explain the reasons of the most relevant changes.**

**A vertical bar appears in the margin wherever a change has been made. Additions are in green text, deletions are in strikethrough red text. Experts' comments are identified by a blue-background number. Mouse over a number to display a pop-up note with the comment.**

**This publication contains the CMV and the official standard. The full list of comments is available at the end of the CMV.**

IEC 60335-2-64 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 2002, Amendment 1: 2007 and Amendment 2:2017. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) the text has been aligned with IEC 60335-1:2020;
- b) some notes have been converted to normative text, modified or deleted (1, 7.12, 9.101, 10.1, 11.7, 15.3, 20.2, 20.116, 20.117, 20.117.2, 20.117.3, 20.119, 22.101, 23.3, 27.2);
- c) clarifications to some test specifications have been made (9.101, 15.1.1, 15.2, 22.113);
- d) exclusion of appliances used in areas open to the public (Clause 1);
- e) clarification of requirements for battery-operated appliances (Clause 1, 11.7, B.3.1.1, B.11.1);
- f) relocation of cleaning instructions from 7.12.1 to 7.12;
- g) conciliation of the text of IEC 60335-2-64 with other standards under IEC/TC61/MT32.

The text of this International Standard is based on the following documents:

Draft	Report on voting
61/6372/FDIS	61/6422/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

A list of all parts of the IEC 60335 series, under the general title *Household and similar electrical appliances – Safety*, can be found on the IEC website.

This Part 2 is to be used in conjunction with the latest edition of IEC 60335-1 and its amendments unless that edition precludes it; in that case, the latest edition that does not preclude it is used. It was established on the basis of the sixth edition (2020) 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: Particular requirements for commercial 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 document will remain unchanged until the stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document 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.

- 6.1: Class 01 appliances are allowed if their rated voltage does not exceed 150 V (Japan).
- 13.2: Leakage current limits are different (Japan).
- 16.2: Leakage current limits are different (Japan).

**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 document 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.

Guidance documents concerning the application of the safety requirements for appliances can be accessed via TC 61 supporting documents on the IEC website –

<https://www.iec.ch/tc61/supportingdocuments>

This information is given for the convenience of users of this International Standard and does not constitute a replacement for the normative text in this standard.

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 publications, basic safety publications and group safety publications 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. **1**

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.

**NOTE 3** Standards dealing with non-safety aspects of household appliances are:

- IEC standards published by TC 59 concerning methods for measuring performance;
- CISPR 11, CISPR 14-1 and relevant IEC 61000-3 series standards concerning electromagnetic emissions;
- CISPR 14-2 concerning electromagnetic immunity;
- IEC standards published by TC 111 concerning environmental matters. **1**

## HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

### Part 2-64: Particular requirements for commercial electric kitchen machines

#### 1 Scope

This clause of Part 1 is replaced by the following.

This part of IEC 60335 deals with the safety of electrically operated commercial **kitchen machines** ~~not intended for household and similar use~~, their **rated voltage** being not more than 250 V for single phase appliances connected between one phase and neutral, and 480 V for other appliances ~~including direct current (DC) supplied appliances and battery operated appliances~~. **1**

~~NOTE 101~~—These appliances are ~~not intended for household and similar purposes~~. They are used for commercial processing of food ~~in areas not open to the public~~, for example in kitchens of restaurants, canteens, hospitals and in commercial enterprises such as bakeries, ~~and~~ butcheries, ~~etc~~. **2**

~~NOTE 102~~—Examples of **kitchen machines** are

- mixers;
- liquid or food blenders;
- kneaders;
- beaters;
- shredders;
- graters;
- mincers;
- slicers;
- peelers;
- tin openers;
- coffee grinders;
- machines used for washing and/or drying food;
- portioning machines;
- pastry rollers;
- noodle strip cutters;
- food processors;
- beam mixers.

This standard also applies to appliances which, in order to facilitate transport, are supplied in several parts (sub-assemblies) which, when assembled at the place of installation, form a constructional unit without the use of any additional parts.

The electrical part of appliances making use of other forms of energy is also within the scope of this standard.



As far as is practicable, this standard deals with the common hazards presented by these types of appliances.

~~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~~ **can** be necessary;
- in many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the national water supply authorities and similar authorities.

~~NOTE 104~~—This standard does not apply to

- appliances designed exclusively for industrial purposes;
- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);
- appliances for continuous mass production of food;
- independent conveying equipment, such as food distribution belts.

## 2 Normative references

This clause of Part 1 is applicable except as follows.

*Addition:*

ISO 898-1, *Mechanical properties of fasteners made of carbon steel and alloy steel – Part 1: Bolts, screws and studs with specified property classes – Coarse thread and fine pitch thread*

ISO 3506-1, *Fasteners – Mechanical properties of corrosion-resistant stainless steel fasteners – Part 1: Bolts, screws and studs with specified grades and property classes*

ISO 3506-2, *Fasteners – Mechanical properties of corrosion-resistant stainless steel fasteners – Part 2: Nuts with specified grades and property classes*

ISO 3506-3, *Mechanical properties of corrosion-resistant stainless steel fasteners – Part 3: Set screws and similar fasteners not under tensile stress*

ISO 3506-4, *Mechanical properties of corrosion-resistant stainless steel fasteners – Part 4: Tapping screws*

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Household and similar electrical appliances – Safety –  
Part 2-64: Particular requirements for commercial electric kitchen machines**

**Appareils électrodomestiques et analogues – Sécurité –  
Partie 2-64: Exigences particulières pour les machines de cuisine électriques  
à usage commercial**



## CONTENTS

FOREWORD .....	4
INTRODUCTION .....	7
1 Scope .....	8
2 Normative references .....	9
3 Terms and definitions .....	9
4 General requirement.....	11
5 General conditions for the tests .....	11
6 Classification .....	11
7 Marking and instructions.....	12
8 Protection against access to live parts .....	14
9 Starting of motor-operated appliances .....	14
10 Power input and current.....	14
11 Heating.....	15
12 Charging metal-ion batteries.....	15
13 Leakage current and electric strength at operating temperature.....	15
14 Transient overvoltages .....	16
15 Moisture resistance .....	16
16 Leakage current and electric strength.....	17
17 Overload protection of transformers and associated circuits .....	17
18 Endurance .....	17
19 Abnormal operation .....	17
20 Stability and mechanical hazards.....	18
21 Mechanical strength .....	23
22 Construction .....	24
23 Internal wiring.....	26
24 Components .....	26
25 Supply connection and external flexible cords .....	26
26 Terminals for external conductors .....	27
27 Provision for earthing .....	27
28 Screws and connections .....	27
29 Clearances, creepage distances and solid insulation .....	28
30 Resistance to heat and fire .....	28
31 Resistance to rusting .....	29
32 Radiation, toxicity and similar hazards.....	29
Annexes .....	31
Annex B (normative) Battery-operated appliances, separable batteries and detachable batteries for battery-operated appliances .....	32
Annex P (informative) Guidance for the application of this standard to appliances used in tropical climates .....	33
Bibliography.....	34
Figure 101 – Splash apparatus .....	29

Figure 102 – Protection devices for slicing machines ..... 30

Table 101 – Assembling torques for screwed connections providing earthing continuity ..... 28

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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.

NOTE 3 Standards dealing with non-safety aspects of household appliances are:

- IEC standards published by TC 59 concerning methods for measuring performance;
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- CISPR 14-2 concerning electromagnetic immunity;
- IEC standards published by TC 111 concerning environmental matters.



## HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

### Part 2-64: Particular requirements for commercial electric kitchen machines

#### 1 Scope

This clause of Part 1 is replaced by the following.

This part of IEC 60335 deals with the safety of electrically operated commercial **kitchen machines**, their **rated voltage** being not more than 250 V for single phase appliances connected between one phase and neutral, and 480 V for other appliances including direct current (DC) supplied appliances and **battery operated appliances**.

These appliances are not intended for household and similar purposes. They are used for commercial processing of food in areas not open to the public, for example in kitchens of restaurants, canteens, hospitals and in commercial enterprises such as bakeries and butcheries.

Examples of **kitchen machines** are

- mixers;
- liquid or food blenders;
- kneaders;
- beaters;
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- peelers;
- tin openers;
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- pastry rollers;
- noodle strip cutters;
- food processors;
- beam mixers.

This standard also applies to appliances which, in order to facilitate transport, are supplied in several parts (sub-assemblies) which, when assembled at the place of installation, form a constructional unit without the use of any additional parts.

The electrical part of appliances making use of other forms of energy is also within the scope of this standard.

As far as is practicable, this standard deals with the common hazards presented by these types of appliances.

Attention is drawn to the fact that

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

This standard does not apply to

- appliances designed exclusively for industrial purposes;
- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);
- appliances for continuous mass production of food;
- independent conveying equipment, such as food distribution belts.

## 2 Normative references

This clause of Part 1 is applicable except as follows.

*Addition:*

ISO 898-1, *Mechanical properties of fasteners made of carbon steel and alloy steel – Part 1: Bolts, screws and studs with specified property classes – Coarse thread and fine pitch thread*

ISO 3506-1, *Fasteners – Mechanical properties of corrosion-resistant stainless steel fasteners – Part 1: Bolts, screws and studs with specified grades and property classes*

ISO 3506-2, *Fasteners – Mechanical properties of corrosion-resistant stainless steel fasteners – Part 2: Nuts with specified grades and property classes*

ISO 3506-3, *Mechanical properties of corrosion-resistant stainless steel fasteners – Part 3: Set screws and similar fasteners not under tensile stress*

ISO 3506-4, *Mechanical properties of corrosion-resistant stainless steel fasteners – Part 4: Tapping screws*

## SOMMAIRE

AVANT-PROPOS .....	38
INTRODUCTION .....	41
1 Domaine d'application .....	42
2 Références normatives .....	43
3 Termes et définitions .....	43
4 Exigences générales .....	45
5 Conditions générales d'essais .....	45
6 Classification .....	45
7 Marquage et instructions .....	46
8 Protection contre l'accès aux parties actives .....	48
9 Démarrage des appareils à moteur .....	48
10 Puissance et courant .....	48
11 Echauffements .....	49
12 Charge des batteries à ions métalliques .....	49
13 Courant de fuite et rigidité diélectrique à la température de régime .....	49
14 Surtensions transitoires .....	50
15 Résistance à l'humidité .....	50
16 Courant de fuite et rigidité diélectrique .....	51
17 Protection contre la surcharge des transformateurs et des circuits associés .....	51
18 Endurance .....	51
19 Fonctionnement anormal .....	52
20 Stabilité et dangers mécaniques .....	52
21 Résistance mécanique .....	58
22 Construction .....	58
23 Conducteurs internes .....	60
24 Composants .....	61
25 Raccordement au réseau et câbles souples extérieurs .....	61
26 Bornes pour conducteurs externes .....	62
27 Dispositions en vue de la mise à la terre .....	62
28 Vis et connexions .....	62
29 Distances dans l'air, lignes de fuite et isolation solide .....	63
30 Résistance à la chaleur et au feu .....	63
31 Protection contre la rouille .....	63
32 Rayonnement, toxicité et dangers analogues .....	63
Annexes .....	66
Annexe B (normative) Appareils alimentés par batteries, batteries séparables et batteries amovibles pour appareils alimentés par batteries .....	67
Annexe P (informative) Lignes directrices pour l'application de la présente norme aux appareils utilisés en climat tropical .....	68
Bibliographie .....	69
Figure 101 – Appareil d'éclaboussement .....	64

Figure 102 – Dispositifs de protection des trancheurs ..... 65

Tableau 101 – Couples d'assemblage pour les connexions vissées qui assurent la  
continuité de la mise à la terre ..... 63

## COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

### APPAREILS ÉLECTRODOMESTIQUES ET ANALOGUES – SÉCURITÉ –

#### Partie 2-64: Exigences particulières pour les machines de cuisine électriques à usage commercial

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L'IEC 60335-2-64 a été établie par le comité d'études 61 de l'IEC: Sécurité des appareils électrodomestiques et analogues. Il s'agit d'une Norme internationale.

Cette quatrième édition annule et remplace la troisième édition parue en 2002, l'Amendement 1:2007 et l'Amendement 2:2017. Cette édition constitue une révision technique.

Cette édition inclut les modifications techniques majeures suivantes par rapport à l'édition précédente:

- a) alignement du texte sur l'IEC 60335-1:2020;
- b) conversion en texte normatif, modification ou suppression de certaines notes (Article 1, 7.12, 9.101, 10.1, 11.7, 15.3, 20.2, 20.116, 20.117, 20.117.2, 20.117.3, 20.119, 22.101, 23.3, 27.2);
- c) clarification de certaines modalités d'essais (9.101, 15.1.1, 15.2, 22.113);
- d) exclusion des appareils utilisés dans des lieux ouverts au public (Article 1);
- e) clarification des exigences pour les appareils alimentés par batteries (Article 1, 11.7, B.3.1.1, B.11.1);
- f) déplacement des instructions pour le nettoyage du 7.12.1 au 7.12;
- g) alignement du texte de l'IEC 60335-2-64 sur d'autres normes sous l'IEC/TC61/MT32.

Le texte de cette Norme internationale est issu des documents suivants:

Projet	Rapport de vote
61/6372/FDIS	61/6422/RVD

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à son approbation.

La langue employée pour l'élaboration de cette Norme internationale est l'anglais.

Ce document a été rédigé selon les Directives ISO/IEC, Partie 2, il a été développé selon les Directives ISO/IEC, Partie 1 et les Directives ISO/IEC, Supplément IEC, disponibles sous [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). Les principaux types de documents développés par l'IEC sont décrits plus en détail sous [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

Une liste de toutes les parties de la série IEC 60335, publiées sous le titre général *Appareils électrodomestiques et analogues – Sécurité*, se trouve sur le site web de l'IEC.

La présente Partie 2 doit être utilisée conjointement avec la dernière édition de l'IEC 60335-1 et ses amendements, sauf si cette édition l'exclut. Dans ce cas, la dernière édition qui n'exclut pas la présente Partie 2 est utilisée. Elle a été établie sur la base de la sixième édition (2020) de cette norme.

NOTE 1 L'expression "la Partie 1" utilisée dans la présente norme fait référence à l'IEC 60335-1.

La présente Partie 2 complète ou modifie les articles correspondants de l'IEC 60335-1, de façon à transformer cette publication en norme IEC: Exigences particulières pour les machines de cuisine électriques à usage commercial.

Lorsqu'un paragraphe particulier de la Partie 1 n'est pas mentionné dans cette Partie 2, ce paragraphe s'applique pour autant que cela soit raisonnable. Lorsque la présente norme mentionne "addition", "modification" ou "remplacement", le texte correspondant de la Partie 1 doit être adapté en conséquence.

NOTE 2 Le système de numérotation suivant est utilisé:

- les paragraphes, tableaux et figures qui s'ajoutent à ceux de la Partie 1 sont numérotés à partir de 101;
- à l'exception de celles qui sont dans un nouveau paragraphe ou de celles qui concernent des notes de la Partie 1, les notes sont numérotées à partir de 101, y compris celles des articles ou paragraphes qui sont remplacés;
- les annexes qui sont ajoutées sont désignées AA, BB, etc.

NOTE 3 Les caractères d'imprimerie suivants sont utilisés:

- exigences: caractères romains;
- *modalités d'essais: caractères italiques;*
- notes: petits caractères romains.

Les termes en **gras** dans le texte sont définis à l'Article 3. Lorsqu'une définition concerne un adjectif, l'adjectif et le nom associé figurent également en gras.

Le comité a décidé que le contenu de ce document ne sera pas modifié avant la date de stabilité indiquée sur le site web de l'IEC sous [webstore.iec.ch](http://webstore.iec.ch) dans les données relatives au document recherché. A cette date, le document sera

- reconduit,
- supprimé,
- remplacé par une édition révisée, ou
- amendé.

NOTE 4 L'attention des Comités nationaux est attirée sur le fait que les fabricants d'appareils et les organismes d'essai peuvent avoir besoin d'une période transitoire après la publication d'une nouvelle publication IEC, ou d'une publication amendée ou révisée, pour fabriquer des produits conformes aux nouvelles exigences et pour adapter leurs équipements aux nouveaux essais ou aux essais révisés.

Le comité recommande que le contenu de cette publication soit entériné au niveau national au plus tôt 12 mois et au plus tard 36 mois après la date de publication.

Les différences suivantes existent dans les pays indiqués ci-après.

- 6.1: les appareils de la classe 01 sont admis si leur tension assignée ne dépasse pas 150 V (Japon);
- 13.2: les limites de courant de fuite sont différentes (Japon);
- 16.2: les limites de courant de fuite sont différentes (Japon).

## INTRODUCTION

Il a été considéré en établissant cette Norme internationale que l'exécution de ses dispositions était confiée à des personnes expérimentées et ayant une qualification appropriée.

Les documents de recommandations concernant l'application des exigences de sécurité pour les appareils peuvent être consultés dans les documents de support du CE 61, accessibles sur le site web de l'IEC à l'adresse:

<https://www.iec.ch/tc61/supportingdocuments>

Cette information est donnée à l'intention des utilisateurs de la présente Norme internationale et n'a pas pour objet de remplacer le texte normatif de la présente norme.

La présente norme reconnaît le niveau de protection internationalement accepté contre les dangers électriques, mécaniques, thermiques, liés au feu et au rayonnement des appareils, lorsqu'ils fonctionnent comme en usage normal en tenant compte des instructions du fabricant. Elle couvre également les situations anormales auxquelles on peut s'attendre dans la pratique et elle tient compte de la façon dont les phénomènes électromagnétiques peuvent affecter le fonctionnement sûr des appareils.

Cette norme tient compte autant que possible des exigences de l'IEC 60364, de façon à rester compatible avec les règles d'installation quand l'appareil est raccordé au réseau d'alimentation. Cependant, des règles nationales d'installation peuvent être différentes.

Si un appareil relevant du domaine d'application de la présente norme comporte également des fonctions couvertes par une autre Partie 2 de l'IEC 60335, la Partie 2 correspondante est appliquée à chaque fonction séparément, dans la limite du raisonnable. Si cela est applicable, on tient compte de l'influence d'une fonction sur les autres fonctions.

Lorsqu'une Partie 2 ne comporte pas d'exigences complémentaires pour couvrir les risques traités dans la Partie 1, la Partie 1 s'applique.

NOTE 1 Cela signifie que les comités d'études responsables pour les Parties 2 ont déterminé qu'il n'était pas nécessaire de spécifier des exigences particulières pour l'appareil en question en plus des exigences générales.

Cette norme est une norme de famille de produits traitant de la sécurité d'appareils et a préséance sur les normes horizontales et génériques couvrant le même sujet.

NOTE 2 Les publications horizontales, les publications fondamentales de sécurité et les publications groupées de sécurité couvrant un risque ne sont pas applicables parce qu'elles ont été prises en considération lorsque les exigences générales et particulières ont été étudiées pour la série de normes IEC 60335.

Un appareil conforme au texte de la présente norme ne sera pas nécessairement jugé conforme aux principes de sécurité de la norme si, lorsqu'il est examiné et soumis aux essais, il apparaît qu'il présente d'autres caractéristiques qui compromettent le niveau de sécurité visé par ces exigences.

Un appareil utilisant des matériaux ou présentant des modes de construction différents de ceux décrits dans les exigences de cette norme peut être examiné et essayé en fonction de l'objectif poursuivi par ces exigences et, s'il est jugé pratiquement équivalent, il peut être estimé conforme aux principes de sécurité de la norme.

NOTE 3 Les normes traitant des aspects non relatifs à la sécurité des appareils électrodomestiques sont:

- les normes IEC publiées par le comité d'études 59 concernant les méthodes de mesure d'aptitude à la fonction;
- les normes CISPR 11 et CISPR 14-1, ainsi que les normes applicables de la série IEC 61000-3 concernant les émissions électromagnétiques;
- la norme CISPR 14-2 concernant l'immunité électromagnétique;
- les normes IEC publiées par le comité d'études 111 concernant l'environnement.



## APPAREILS ÉLECTRODOMESTIQUES ET ANALOGUES – SÉCURITÉ –

### Partie 2-64: Exigences particulières pour les machines de cuisine électriques à usage commercial

#### 1 Domaine d'application

L'article de la Partie 1 est remplacé par le texte suivant.

La présente partie de l'IEC 60335 traite de la sécurité des **machines de cuisine** électriques à usage commercial, dont la **tension assignée** est inférieure ou égale à 250 V pour les appareils monophasés raccordés entre un conducteur de phase et le conducteur de neutre, et à 480 V pour les autres appareils, y compris les appareils alimentés en courant continu et les **appareils alimentés par batteries**.

Ces appareils ne sont pas destinés à un usage domestique ou analogue. Ils sont destinés à un usage commercial pour le traitement des aliments dans des zones non ouvertes au public, par exemple dans les cuisines de restaurants, les cantines, les hôpitaux et les entreprises commerciales, telles que les boulangeries et les boucheries.

Des exemples de **machines de cuisine** sont:

- les mélangeurs;
- les mélangeurs pour produits liquides et solides;
- les pétrins;
- les batteurs;
- les coupe-légumes;
- les râpes;
- les hachoirs;
- les trancheurs;
- les éplucheuses;
- les ouvre-boîtes;
- les moulins à café;
- les machines utilisées pour le lavage et/ou le séchage des aliments;
- les portionneuses;
- les laminoirs à pâte;
- les machines à découper les pâtes alimentaires;
- les préparateurs culinaires;
- les broyeurs verticaux à moteur montés sur chariot.

La présente norme s'applique également aux appareils qui, afin de faciliter le transport, sont livrés en plusieurs parties (sous-ensembles) qui, lorsqu'elles sont assemblées sur le lieu de l'installation, forment une unité de construction sans utilisation de parties supplémentaires.

La partie électrique des appareils qui utilise d'autres formes d'énergie est également comprise dans le domaine d'application de la présente norme.

Dans la mesure du possible, la présente norme traite des dangers courants que présentent ces types d'appareils.

L'attention est attirée sur le fait que:

- pour les appareils destinés à être utilisés dans des véhicules ou à bord de navires ou d'avions, des exigences supplémentaires peuvent être nécessaires;
- dans de nombreux pays, des exigences supplémentaires sont spécifiées par les autorités sanitaires nationales, les organismes nationaux en charge de la protection des travailleurs, les agences nationales de l'eau et des organismes analogues.

La présente norme ne s'applique pas

- aux appareils prévus exclusivement pour des usages industriels;
- aux appareils destinés à être utilisés dans des locaux qui présentent des conditions particulières, telles que la présence d'une atmosphère corrosive ou explosive (poussière, vapeur ou gaz);
- aux appareils conçus pour la production continue en masse d'aliments;
- aux convoyeurs indépendants, tels que les tapis roulants pour la distribution d'aliments.