

Annexes

Les annexes de la Partie 1 sont applicables avec l'exception suivante.

Annexe C (normative)

Essai de vieillissement des moteurs

Modification:

La valeur de p dans le Tableau C.1 est de 2 000.

Annexe R (normative)

Evaluation du logiciel

R.2.2.5 *Modification:*

Pour les **circuits électroniques** programmables dont les fonctions nécessitent l'intégration par le logiciel de mesures permettant le contrôle des conditions de défaut/d'erreur spécifiées dans le Tableau R.1 ou le Tableau R.2, la détection d'un défaut/d'une erreur doit s'effectuer avant que la conformité à l'Article 19 et à 22.115 ne soit compromise.

R.2.2.9 *Modification:*

Le logiciel ainsi que le matériel lié à la sécurité placé sous son contrôle doivent être initialisés et doivent s'arrêter avant que la conformité à l'Article 19 et à 22.115 ne soit compromise.

Bibliographie

La bibliographie de la Partie 1 est applicable avec les exceptions suivantes:

Addition:

IEC 60335-2-6, *Appareils électrodomestiques et analogues – Sécurité – Partie 2-6: Règles particulières pour les cuisinières, les tables de cuisson, les fours et les appareils fixes analogues*

IEC 60335-2-12, *Appareils électrodomestiques et analogues – Sécurité – Partie 2-12: Règles particulières pour les chauffe-plats et appareils analogues*

IEC 60335-2-13, *Appareils électrodomestiques et analogues – Sécurité – Partie 2-13: Règles particulières pour les friteuses, les poêles à frire et appareils analogues*

IEC 60335-2-25, *Appareils électrodomestiques et analogues – Sécurité – Partie 2-25: Règles particulières pour les fours à micro-ondes, y compris les fours à micro-ondes combinés*

IEC 60335-2-78, *Appareils électrodomestiques et analogues – Sécurité – Partie 2-78: Règles particulières pour les barbecues pour extérieur*

~~ISO 13732-1, *Ergonomie des ambiances thermiques – Méthodes d'évaluation de la réponse humaine au contact avec des surfaces – Partie 1: Surfaces chaudes*~~

FINAL VERSION

VERSION FINALE

**Household and similar electrical appliances – Safety –
Part 2-9: Particular requirements for grills, toasters and similar portable cooking
appliances**

**Appareils électrodomestiques et analogues – Sécurité –
Partie 2-9: Règles particulières pour les grils, les grille-pain et les appareils de
cuisson mobiles analogues**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –
SAFETY –****Part 2-9: Particular requirements for grills, toasters and
similar portable cooking appliances**

FOREWORD

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DISCLAIMER

This Consolidated version is not an official IEC Standard and has been prepared for user convenience. Only the current versions of the standard and its amendment(s) are to be considered the official documents.

This Consolidated version of IEC 60335-2-9 bears the edition number 6.2. It consists of the sixth edition (2008-07) [documents 61/3651/FDIS and 61/3691/RVD], its amendment 1 (2012-11) [documents 61/4448/FDIS and 61/4501/RVD] and its amendment 2 (2016-04) [documents 61/5107/FDIS and 61/5138/RVD]. The technical content is identical to the base edition and its amendments.

In this Redline version, a vertical line in the margin shows where the technical content is modified by amendments 1 and 2. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.

International Standard IEC 60335-2-9 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

The principal changes in this edition as compared with the fifth edition of IEC 60335-2-9 are as follows (minor changes are not listed):

- aligns the text with IEC 60335-1, Ed 4, and its Amendments 1 and 2;
- introduces requirements for pop-corn makers (3, 11.7, 19.106);
- clarifies the term household and similar purposes (1, 7.12).

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 fourth edition (2001) 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 grills, toasters and similar portable cooking appliances.

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 following differences exist in the countries indicated below.

- 3.1.9: Different loads and test methods are used (Canada and USA).
- 5.101: If the appliance incorporates a motor, the motor is tested at rated voltage (USA).
- 7.12: Identification of the connector is to be marked on the appliance (Canada and USA).
- 11.2: 9,5 mm thick plywood is used for the test corner (USA).
- 11.7: The test duration is based on the quantity of food (USA).
- 11.8: The modification does not apply (Norway).
- 11.8: A temperature rise of 100 K is allowed for the wall of the test corner (USA).
- 11.101: There are no surface temperature limits on toasters having a metallic enclosure unless they are under cabinet or wall mounted, in which case it is allowed that the temperatures may reach 100 °C if a proper marking is provided (USA).
- 15.2: A different solution is used and the test is not carried out on ovens, hotplates or cookers (USA).
- 15.101: Appliances are immersed to the marked level only (USA).
- 19.2: A 300 mm deep simulated cabinet is located 400 mm above the countertop (Canada and USA).
- 19.2: The test is different. Additional tests are carried out on hotplates and cookers (USA):
- 19.101: Different test methods and numbers of cycles are used (Canada and USA).
- 19.102: A combustible cloth is placed above the toaster and the residual bread is left in place (Canada and USA).

- 19.104: Disks having different sizes are used (USA).
- 20.101: The test is not carried out (USA).
- 21.101: The test is different (USA).
- 22.105: The requirement is not applicable (USA).
- 22.108: The test is not carried out (USA).
- 22.109: The test is not carried out (USA).
- 22.110: The test is not carried out (USA).
- 24.1.3: The test is not carried out (USA).
- 24.101: The test is not carried out (USA).
- 25.7: The free length of the supply cord is specified; in some cases, it is 1,8 m to 2,1 m for appliances intended to be connected to fixed socket-outlets, while in others it is 0,6 m to 2,1 m for appliances normally used on a table or similar surface (Canada and USA).

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 standard be adopted for implementation nationally not earlier than 12 months nor later than 36 months from the date of its publication.

The committee has decided that the contents of the base publication and its amendments will remain unchanged until the stability date indicated on the IEC web site 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.

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 which 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.