

This is a preview of "BS EN IEC 60335-2-9:....". [Click here to purchase the full version from the ANSI store.](#)



BSI Standards Publication

Household and similar electrical appliances — Safety

Part 2-9: Particular requirements for grills, toasters
and similar portable cooking appliances

This is a preview of "BS EN IEC 60335-2-9:....". Click here to purchase the full version from the ANSI store.

National foreword

This British Standard is the UK implementation of EN IEC 60335-2-9:2023+A11:2023. It is derived from IEC 60335-2-9:2019. It supersedes BS EN 60335-2-9:2003+A13:2010, which will be withdrawn on 12 January 2026.

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/61/7, Safety of electrical appliances - Heated appliance group.

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

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

This publication has been prepared under a mandate given to the European Standards Organizations by the European Commission and the European Free Trade Association. It is intended to support requirements of the EU legislation detailed in the European Foreword. A European Annex, usually Annex ZA or ZZ, describes how this publication relates to that EU legislation.

For the Great Britain market (England, Scotland and Wales), if UK Government has designated this publication for conformity with UKCA marking (or similar) legislation, it may contain an additional National Annex. Where such a National Annex exists, it shows the correlation between this publication and the relevant UK legislation. If there is no National Annex of this kind, the relevant Annex ZA or ZZ in the body of the European text will indicate the relationship to UK regulation applicable in Great Britain. References to EU legislation may need to be read in accordance with the UK designation and the applicable UK law. Further information on designated standards can be found at www.bsigroup.com/standardsandregulation.

For the Northern Ireland market, UK law will continue to implement relevant EU law subject to periodic confirmation. Therefore Annex ZA/ZZ in the European text, and references to EU legislation, are still valid for this market.

This is a preview of "BS EN IEC 60335-2-9:2023+A11:2023". Click here to purchase the full version from the ANSI store.

UK Government is responsible for legislation. For information on legislation and policies relating to that legislation, consult the relevant pages of www.gov.uk.

© The British Standards Institution 2023
Published by BSI Standards Limited 2023

ISBN 978 0 539 12442 2

ICS 13.120; 97.040.50

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 April 2023.

Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

This is a preview of "BS EN IEC 60335-2-9:....". [Click here to purchase the full version from the ANSI store.](#)

This is a preview of "BS EN IEC 60335-2-9:....". Click here to purchase the full version from the ANSI store.

EUROPÄISCHE NORM

March 2023

ICS 13.120; 97.040.50

Supersedes EN 60335-2-9:2003; EN 60335-2-9:2003/A1:2004; EN 60335-2-9:2003/A2:2006; EN 60335-2-9:2003/A12:2007; EN 60335-2-9:2003/A13:2010; EN 60335-2-9:2003/A13:2010/AC:2011; EN 60335-2-9:2003/A13:2010/AC:2012

English Version

Household and similar electrical appliances - Safety - Part 2-9:
Particular requirements for grills, toasters and similar portable
cooking appliances
(IEC 60335-2-9:2019)

Appareils électrodomestiques et analogues - Sécurité -
Partie 2-9: Exigences particulières pour les grils, les grille-
pain et les appareils de cuisson mobiles analogues
(IEC 60335-2-9:2019)

Sicherheit elektrischer Geräte für den Hausgebrauch und
ähnliche Zwecke - Teil 2-9: Besondere Anforderungen für
Grillgeräte, Brotröster und ähnliche ortsveränderliche
Kochgeräte
(IEC 60335-2-9:2019)

This European Standard was approved by CENELEC on 2023-01-12. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.



European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

This is a preview of "BS EN IEC 60335-2-9:2023+A11:2023". Click here to purchase the full version from the ANSI store.

This document (EN IEC 60335-2-9:2023) consists of the text of IEC 60335-2-9:2019 prepared by 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) 2024-01-12
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2026-01-12

This document supersedes EN 60335-2-9:2003 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document is read in conjunction with EN IEC 60335-2-9:2023/A11:2023.

This document has been prepared under a Standardization Request given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s) / Regulation(s).

For relationship with EU Directive(s) / Regulation(s), see informative Annex ZZA, which is an integral part of EN IEC 60335-2-9:2023/A11:2023.

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.

Endorsement notice

The text of the International Standard IEC 60335-2-9:2019 was approved by CENELEC as a European Standard.

This is a preview of "BS EN IEC 60335-2-9:....". [Click here to purchase the full version from the ANSI store.](#)

European foreword to amendment A11

This document (EN IEC 60335-2-9:2023/A11:2023) has been prepared by CLC/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) 2024-01-12
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2026-01-12

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".

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document is read in conjunction with EN IEC 60335-2-9:2023.

This document has been prepared under a Standardization Request given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s) / Regulation(s).

For relationship with EU Directive(s) / Regulation(s), see informative Annex ZZA, which is an integral part of this document.

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.

This is a preview of "BS EN IEC 60335-2-9:2023+A11:2023". [Click here to purchase the full version from the ANSI store.](#)

This is a preview of "BS EN IEC 60335-2-9:....". [Click here to purchase the full version from the ANSI store.](#)

CONTENTS

FOREWORD	4
INTRODUCTION	7
1 Scope	8
2 Normative references	9
3 Terms and definitions	9
4 General requirement.....	14
5 General conditions for the tests	14
6 Classification	14
7 Marking and instructions.....	14
8 Protection against access to live parts	16
9 Starting of motor-operated appliances	17
10 Power input and current.....	17
11 Heating.....	17
12 Void.....	22
13 Leakage current and electric strength at operating temperature.....	22
14 Transient overvoltages	23
15 Moisture resistance	23
16 Leakage current and electric strength.....	24
17 Overload protection of transformers and associated circuits	24
18 Endurance	24
19 Abnormal operation	24
20 Stability and mechanical hazards.....	26
21 Mechanical strength	26
22 Construction	27
23 Internal wiring.....	30
24 Components	30
25 Supply connection and external flexible cords	31
26 Terminals for external conductors	32
27 Provision for earthing	32
28 Screws and connections	32
29 Clearances, creepage distances and solid insulation	32
30 Resistance to heat and fire	32
31 Resistance to rusting	33
32 Radiation, toxicity and similar hazards.....	33
Annexes	40
Annex C (normative) Ageing test on motors	41
Annex R (normative) Software evaluation	42
Bibliography.....	43
Figure 101 – Examples of appliances.....	35
Figure 102 – Load for testing rotating spits	36

This is a preview of "BS EN IEC 60335-2-9:....". [Click here to purchase the full version from the ANSI store.](#)

Figure 103 – Vessel for testing hotplates	37
Figure 104 – Vessel for testing induction hotplates	37
Figure 105 – Probe for measuring surface temperatures	38
Figure 106 – Front view of appliance with identification of excluded areas	39
Table 101 – Quantity of liquid in the vessel.....	10
Table 102 – Temperature rises for external surfaces.....	19

This is a preview of "BS EN IEC 60335-2-9:....". [Click here to purchase the full version from the ANSI store.](#)

INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances

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.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 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.

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

This seventh edition cancels and replaces the sixth edition published in 2008, Amendment 1: 2012 and Amendment 2:2016. This edition constitutes a technical revision.

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

- aligns the text with IEC 60335-1, Ed 5, and its Amendments 1 and 2;
- revises the abnormal tests for a toaster (19.11.2, 19.102).