
**Gospodinjski in podobni električni aparati – Varnost - 1. del: Splošne zahteve
(IEC 60335-1:2001/A2:2006 + popravek avg. 2006)**

Household and similar electrical appliances - Safety - Part 1: General requirements
(IEC 60335-1:2001/A2:2006 + corrigendum 2006)

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EUROPEAN STANDARD

EN 60335-1/A2

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2006

ICS 13.120; 97.030

English version

**Household and similar electrical appliances -
Safety
Part 1: General requirements
(IEC 60335-1:2001/A2:2006 + corrigendum 2006)**

Appareils électrodomestiques
et analogues -
Sécurité

Partie 1: Prescriptions générales
(CEI 60335-1:2001/A2:2006 +
corrigendum 2006)

Sicherheit elektrischer Geräte
für den Hausgebrauch
und ähnliche Zwecke

Teil 1: Allgemeine Anforderungen
(IEC 60335-1:2001/A2:2006 +
corrigendum 2006)

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[SIST EN 60335-1:2003/A2:2006](https://standards.iteh.ai/catalog/standards/sist/19fdec33-1688-4bdc-ad8e-823e653d927f/sist-en-60335-1-2003-a2-2006)

<https://standards.iteh.ai/catalog/standards/sist/19fdec33-1688-4bdc-ad8e-823e653d927f/sist-en-60335-1-2003-a2-2006>

This amendment A2 modifies the European Standard EN 60335-1:2002; it was approved by CENELEC on 2006-07-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 Central Secretariat or to any CENELEC member.

This amendment 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 Central Secretariat has the same status as the official versions.

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

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 61/2996/FDIS, future amendment 2 to IEC 60335-1:2001, prepared by the IEC Technical Committee 61, Safety of household and similar electrical appliances, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A2 to EN 60335-1:2002 on 2006-07-01.

The following dates are applicable:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2007-04-01
- date on which national standards conflicting with the amendment have to be withdrawn (dow) 2009-07-01

This amendment supplements or modifies the corresponding clauses of EN 60335-1:2002.

There are no special national conditions causing a deviation from this amendment.

There are no national deviations from this amendment.

- p NOTE In this document, p is used in the margin to indicate instructions for preparing the printed version.

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Endorsement notice

<https://standards.iteh.ai/catalog/standards/sist/19fdec33-1688-4bdc-ad8e-823e653d927f/sist/en-60335-1-2003-1-2-2006>

The text of amendment 2:2006 to the International Standard IEC 60335-1:2001 and its corrigendum August 2006 was approved by CENELEC as an amendment to the European Standard without any modification.

- p Replace Annex ZC (of EN 60335-1:2002/A1:2004) by the new Annex ZC.
- p In Annex ZD (of EN 60335-1:2002), correct the IEC reference for Ordinary polyvinyl chloride sheathed flexible cord to read "60227 IEC 53".
-

Annex ZC (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60061-1 (mod)	- ¹⁾	Lamp caps and holders together with gauges for the control of interchangeability and safety Part 1: Lamp caps	EN 60061-1	1993 ²⁾
IEC 60068-2-2	- ¹⁾	Environmental testing Part 2: Tests - Tests B: Dry heat	EN 60068-2-2	1993 ²⁾
IEC 60068-2-32	- ¹⁾	Basic environmental testing procedures Part 2: Tests - Test Ed: Free fall	EN 60068-2-32	1993 ²⁾
IEC 60068-2-75	- ¹⁾	Environmental testing Part 2-75: Tests - Test Eh: Hammer tests	EN 60068-2-75	1997 ²⁾
IEC 60083	- ¹⁾	Plugs and socket-outlets for domestic and similar general use standardized in member countries of IEC	-	-
IEC 60085	2004	Electrical insulation - Thermal classification	EN 60085	2004
IEC 60112	2003	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	EN 60112	2003
IEC 60127	Series	Miniature fuses	EN 60127	Series
IEC 60227 ³⁾	Series	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V		
IEC 60238	- ¹⁾	Edison screw lampholders	EN 60238 + corr. January	2004 ²⁾ 2005
IEC 60245 ⁴⁾	Series	Rubber insulated cables - Rated voltages up to and including 450/750 V		
IEC 60252-1	- ¹⁾	AC motor capacitors Part 1: General - Performance, testing and rating - Safety requirements - Guide for installation and operation	EN 60252-1	2001 ²⁾

1) Undated reference.

2) Valid edition at date of issue.

3) The HD 21 series, which is related to, but not directly equivalent with the IEC 60227 series, applies instead.

4) The HD 22 series, which is related to, but not directly equivalent with the IEC 60245 series, applies instead.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60320-1	- ¹⁾	Appliance couplers for household and similar general purposes Part 1: General requirements	EN 60320-1	2001 ²⁾
IEC 60320-2-2	- ¹⁾	Appliance couplers for household and similar general purposes Part 2-2: Interconnection couplers for household and similar equipment	EN 60320-2-2	1998 ²⁾
IEC 60320-2-3	- ¹⁾	Appliance couplers for household and similar general purposes Part 2-3: Appliance coupler with a degree of protection higher than IPX0	EN 60320-2-3	1998 ²⁾
IEC 60384-14	2005	Fixed capacitors for use in electronic equipment Part 14: Sectional specification - Fixed capacitors for electromagnetic interference suppression and connection to the supply mains	EN 60384-14	2005
IEC 60417	Data-base	Graphical symbols for use on equipment	-	-
IEC 60529	- ¹⁾	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May	1991 ²⁾ 1993
IEC 60598-1 (mod)	2003	Luminaires Part 1: General requirements and tests	EN 60598-1	2004
IEC 60664-1 (mod) + A1 + A2	1992 2000 2002	Insulation coordination for equipment within low-voltage systems Part 1: Principles, requirements and tests	EN 60664-1	2003
IEC 60664-3	2003	Insulation coordination for equipment within low-voltage systems Part 3: Use of coating, potting or moulding for protection against pollution	EN 60664-3	2003
IEC 60691	2002	Thermal-links - Requirements and application guide	EN 60691	2003
IEC 60695-2-11	- ¹⁾	Fire hazard testing Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products	EN 60695-2-11	2001 ²⁾
IEC 60695-2-12	- ¹⁾	Fire hazard testing Part 2-12: Glowing/hot-wire based test methods - Glow-wire flammability test method for materials	EN 60695-2-12	2001 ²⁾
IEC 60695-2-13	- ¹⁾	Fire hazard testing Part 2-13: Glowing/hot-wire based test methods - Glow-wire ignitability test method for materials	EN 60695-2-13	2001 ²⁾
IEC 60695-10-2	- ¹⁾	Fire hazard testing Part 10-2: Abnormal heat - Ball pressure test	EN 60695-10-2	2003 ²⁾

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60695-11-5	2004	Fire hazard testing Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	EN 60695-11-5	2005
IEC 60695-11-10	- ¹⁾	Fire hazard testing Part 11-10: Test flames - 50 W horizontal and vertical flame test methods	EN 60695-11-10	1999 ²⁾
IEC 60730-1 (mod) A1 (mod)	1999 2003	Automatic electrical controls for household and similar use Part 1: General requirements	EN 60730-1 A1 A11 A12 A13 A14 A15	2000 2004 2002 2003 2004 2005 200X ⁵⁾
IEC 60730-2-8 (mod) A1 (mod)	2000 2002	Automatic electrical controls for household and similar use Part 2-8: Particular requirements for electrically operated water valves, including mechanical requirements	EN 60730-2-8 A1	2002 2003
IEC 60738-1	- ¹⁾	Directly heated positive temperature coefficient thermistors Part 1: Generic specification	EN 60738-1	2006 ²⁾
IEC 60906-1	- ¹⁾	IEC system of plugs and socket-outlets for household and similar purposes Part 1: Plugs and socket-outlets 16 A 250 V a.c.	-	-
IEC 60990	1999	Methods of measurement of touch current and protective conductor current	EN 60990	1999
IEC 60999-1	1999	Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm ² up to 35 mm ² (included)	EN 60999-1	2000
IEC 61000-4-2	- ¹⁾	Electromagnetic compatibility (EMC) Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	EN 61000-4-2	1995 ²⁾
IEC 61000-4-3	- ¹⁾	Electromagnetic compatibility (EMC) Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	EN 61000-4-3	2006 ²⁾
IEC 61000-4-4	- ¹⁾	Electromagnetic compatibility (EMC) Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	EN 61000-4-4	2004 ²⁾

5) To be published

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61000-4-5	- ¹⁾	Electromagnetic compatibility (EMC) Part 4-5: Testing and measurement techniques - Surge immunity test	EN 61000-4-5	200X ⁶⁾
IEC 61000-4-6	- ¹⁾	Electromagnetic compatibility (EMC) Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	EN 61000-4-6	1996 ²⁾
IEC 61000-4-11	2004	Electromagnetic compatibility (EMC) Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	EN 61000-4-11	2004
IEC 61000-4-13	- ¹⁾	Electromagnetic compatibility (EMC) Part 4-13: Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests	EN 61000-4-13	2002 ²⁾
IEC 61032	1997	Protection of persons and equipment by enclosures - Probes for verification	EN 61032	1998
IEC 61058-1 (mod) + A1	2000 2001	Switches for appliances Part 1: General requirements	EN 61058-1	2002
IEC 61180-1	- ¹⁾	High-voltage test techniques for low-voltage equipment Part 1: Definitions, test and procedure requirements	EN 61180-1	1994 ²⁾
IEC 61180-2	- ¹⁾	High-voltage test techniques for low-voltage equipment Part 2: Test equipment	EN 61180-2	1994 ²⁾
IEC 61558-1 (mod) A1	1997 1998	Safety of power transformers, power supply units and similar Part 1: General requirements and tests	EN 61558-1 ⁷⁾ + corr. April A1 A11	1997 2003 1998 2003
IEC 61558-2-6	1997	Safety of power transformers, power supply units and similar Part 2-6: Particular requirements for safety isolating transformers for general use	EN 61558-2-6	1997
IEC 61770	- ¹⁾	Electric appliances connected to the water mains - Avoidance of backsiphonage and failure of hose-sets	EN 61770	1999 ²⁾
IEC 62151	2000	Safety of equipment electrically connected to a telecommunication network	-	-

6) To be ratified.

7) EN 61558-1 is superseded by EN 61558-1:2005, which is based on IEC 61558-1:2005.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO 2768-1	- ¹⁾	General tolerances Part 1: Tolerances for linear and angular dimensions without individual tolerance indications	EN 22768-1	1993 ²⁾
ISO 7000	Data- base	Graphical symbols for use on equipment - Index and synopsis	-	-
ISO 9772 A1	2001 2003	Cellular plastics - Determination of horizontal burning characteristics of small specimens subjected to a small flame	- -	- -

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INTERNATIONAL STANDARD

IEC 60335-1

2001

AMENDMENT 2
2006-05

Amendment 2

**Household and similar electrical appliances –
Safety –**

**Part 1:
General requirements**

(standards.iteh.ai)

SIST EN 60335-1:2003/A2:2006

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*This **English-language** version is derived from the original **bilingual** publication by leaving out all French-language pages. Missing page numbers correspond to the French-language pages.*

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Международная Электротехническая Комиссия

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FOREWORD

This amendment has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

The text of this amendment is based on the following documents:

FDIS	Report on voting
61/2996/FDIS	61/3053/RVD

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

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the maintenance result 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.

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Replace, in Note 1, first dash, IEC 60695-2-2 by IEC 60695-11-5.

1 Scope

Replace the two dashed items in the third paragraph by the following:

- persons (including children) whose
 - physical, sensory or mental capabilities; or
 - lack of experience and knowledgeprevents them from using the appliance safely without supervision or instruction;
- children playing with the appliance.

2 Normative references

Delete from the existing list the following normative references:

IEC 60249-2-4

IEC 60249-2-5

Replace reference to IEC 60085 by the following new reference:

IEC 60085:2004, *Electrical insulation – Thermal classification*