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EXTENDED VERSION

This full version of IEC 60335-2-116:2025 includes the content of the references made to IEC 60335-1:2020+AMD1:2025 CSV

**Household and similar electrical appliances - Safety -
Part 2-116: Particular requirements for furniture with electrically motorized parts**

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FOREWORD	5
INTRODUCTION to IEC 60335-1:2020+AMD1:2025 CSV	8
INTRODUCTION to IEC 60335-2-116:2025	10
1 Scope	11
2 Normative references	12
3 Terms and definitions	17
4 General requirement	30
5 General conditions for the tests	30
6 Classification	34
7 Marking and instructions	35
8 Protection against access to live parts	44
9 Starting of motor-operated appliances	46
10 Power input and current	46
11 Heating	48
12 Charging of metal-ion batteries	55
13 Leakage current and electric strength at operating temperature	56
14 Transient overvoltages	59
15 Moisture resistance	59
16 Leakage current and electric strength	62
17 Overload protection of transformers and associated circuits	64
18 Endurance	64
19 Abnormal operation	64
20 Stability and mechanical hazards	75
21 Mechanical strength	80
22 Construction	82
23 Internal wiring	96
24 Components	98
25 Supply connection and external flexible cords	103
26 Terminals for external conductors	111
27 Provision for earthing	114
28 Screws and connections	115
29 Clearances, creepage distances and solid insulation	118
30 Resistance to heat and fire	126
31 Resistance to rusting	131
32 Radiation, toxicity and similar hazards	131
Annex A (informative) Routine tests	146
Annex B (normative) Battery-operated appliances, separable batteries and detachable batteries for battery-operated appliances	148
Annex C (normative) Ageing test on motors	172
Annex D (normative) Thermal motor protectors	173
Annex E (normative) Needle-flame test	174
Annex F (normative) Capacitors	175

This is a preview of IEC 60335-2-116 Ed. 2.0 en:2025 EXV. [Click here to purchase the full version from the ANSI s](#)

Annex H (normative) Switches	178
Annex I (normative) Motors having basic insulation that is inadequate for the rated voltage of the appliance	180
Annex J (normative) Coated printed circuit boards	182
Annex K (informative) Overvoltage categories	183
Annex L (informative) Guidance for the measurement of clearances and creepage distances	184
Annex M (informative) Pollution degree	187
Annex N (normative) Proof tracking test.....	188
Annex O (informative) Selection and sequence of the tests of Clause 30	189
Annex P (informative) Guidance for the application of this standard to appliances used in tropical climates	194
Annex Q (informative) Sequence of tests for the evaluation of electronic circuits	196
Annex R (normative) Software evaluation	199
Annex S (informative) Guidance for the application of this standard on measurement of power input and current based on the requirements of 10.1 and 10.2 concerning the representative period	214
Annex T (normative) UV-C radiation effect on non-metallic materials	215
Annex U (normative) Appliances intended for remote communication through public networks	218
Bibliography.....	223
Index of defined terms	226
Figure 1 – Circuit diagram for leakage current measurement at operating temperature for single-phase connection of class II appliances and for parts of class II construction	132
Figure 2 – Circuit diagram for leakage current measurement at operating temperature for single-phase connection of other than class II appliances or parts of class II construction	133
Figure 3 – Circuit diagram for leakage current measurement at operating temperature for three-phase with neutral class II appliances and for parts of class II construction	134
Figure 4 – Circuit diagram for leakage current measurement at operating temperature for three-phase with neutral appliances other than those of class II or parts of class II construction	135
Figure 5 – Small part	136
Figure 6 – Example of an electronic circuit with low-power points	136
Figure 7 – Test finger nail	137
Figure 8 – Flexing test apparatus.....	138
Figure 9 – Constructions of cord anchorages	139
Figure 10 – An example of parts of an earthing terminal	140
Figure 11 – Examples of clearances	141
Figure 12 – Example of the placement of the cylinder	142
Figure 13 – Small parts cylinder.....	143
Figure 14 – Example of a specified operating region of a lithium-ion cell during charging	144
Figure 101 – Probe for measuring surface temperatures	145
Figure 102 – Force versus time limitation.....	145

This is a preview of IEC 60335-2-116 Ed. 2.0 en:2025 EXV. [Click here to purchase the full version from the ANSI s](#)

normative Annex B (1 of 2)	169
Figure B.2 – Examples of correct polarity connection marking representing three batteries	171
Figure I.1 – Simulation of faults	181
Figure L.1 – Sequence for the determination of clearances	184
Figure L.2 – Sequence for the determination of creepage distances	185
Figure L.3 – Measurement of clearances	186
Figure O.1 – Tests for resistance to heat	189
Figure O.2 – Selection and sequence of tests for resistance to fire in hand-held appliances	190
Figure O.3 – Selection and sequence of tests for resistance to fire in attended appliances	190
Figure O.4 – Selection and sequence of tests for resistance to fire in unattended appliances	191
Figure O.5 – Some applications of the term "within a distance of 3 mm"	193
Figure Q.1 – Flowchart outlining the sequence of tests for the evaluation of electronic circuits (1 of 2).....	197
Figure R.1 – Examples of software separation	210
Figure S.1 – Flowchart giving guidance on measurement of power input and current concerning the representative period	214
Table 1 – Power input deviation	46
Table 2 – Current deviation.....	47
Table 3 – Maximum normal temperature rises.....	51
Table 101 – Maximum temperature rises for specified external accessible surfaces under normal operating conditions	54
Table 4 – Voltage for electric strength test.....	58
Table 5 – Characteristics of high-voltage sources	58
Table 6 – Impulse test voltage	59
Table 7 – Test voltages.....	63
Table 8 – Maximum winding temperature	67
Table 9 – Maximum abnormal temperature rise.....	73
Table 20 – Halogen-free cord sets and cords	101
Table 10 – Dimensions of cables and conduits.....	104
Table 11 – Minimum cross-sectional area of conductors	106
Table 12 – Pull force and torque	108
Table 13 – Nominal cross-sectional area of conductors	113
Table 14 – Torque for testing screws and nuts	116
Table 15 – Rated impulse voltage	119
Table 16 – Minimum clearances.....	119
Table 17 – Minimum creepage distances for basic insulation	123
Table 18 – Minimum creepage distances for functional insulation	124
Table 19 – Minimum thickness for accessible parts of reinforced insulation consisting of a single layer	126
Table A.1 – Test voltages	147

This is a preview of IEC 60335-2-116 Ed. 2.0 en:2025 EXV. [Click here to purchase the full version from the ANSI s](#)

Table B.2 – Total area of openings for metal-ion cells.....	159
Table B.3 – Volume of air injected at 2 070 kPa.....	159
Table C.1 – Test conditions	172
Table R.1 – General fault/error conditions.....	201
Table R.2 – Specific fault/error conditions.....	203
Table R.3 – Semi-formal methods	209
Table R.4 – Software architecture specification	209
Table R.8 – Principles of software partitioning	210
Table R.5 – Module design specification	211
Table R.6 – Design and coding standards.....	211
Table R.7 – Software safety validation	212
Table T.1 – Minimum property retention limits after UV-C exposure	216
Table U.1 – Acceptable measures against unauthorised access and transmission fault/error modes	220

Household and similar electrical appliances - Safety - Part 2-116: Particular requirements for furniture with electrically motorized parts

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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- 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.
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This extended version (EXV) of the official IEC Standard provides the user with the full content of the Standard.

IEC 60335-2-116:2025 EXV includes the content of IEC 60335-2-116:2025, and the references made to IEC 60335-1:2020+AMD1:2025 CSV.

The specific content of IEC 60335-2-116:2025 is displayed on a [blue background](#).

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similar electrical appliances. It is an International Standard.

This second edition cancels and replaces the first edition published in 2019. This edition constitutes a technical revision.

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

- a) alignment with IEC 60335-1:2020;
- b) deletion or conversion of some notes to normative text (Clause 1);
- c) introduction of surface temperature limits (11.3, 11.8);
- d) introduction of test probe 19 (8.1.1, 20.2);
- e) revision of Clause 20.2.105 with a new entrapment force test method, including time-force profiles and updated force limits.

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

Draft	Report on voting
61/7493/FDIS	61/7513/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. The main document types developed by IEC are described in greater detail at www.iec.ch/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 furniture with electrically motorized parts.

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 state "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:

- *test specifications: in italic type;*

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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 in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

NOTE 4 The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations can 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.

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 –

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 the functions of an appliance are covered by different parts 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.

Throughout this publication, when "part 2" is mentioned, it refers to the relevant part of IEC 60335.

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.

Individual countries may wish to consider the application of this standard, as far as is reasonable, to appliances not mentioned in a part 2, and to appliances designed on new principles. In this case, consideration should be given to defining normal operation, specifying the classification of the appliance according to Clause 6 and specifying whether the appliance is operated attended or unattended. Consideration should also be given to particular categories of likely users and to related specific risks such as access to live parts, hot surfaces or hazardous moving parts.

An appliance that complies with the text of this standard will not necessarily be considered to comply with the safety principles of this standard if, when examined and tested, it is found to have other features which impair the level of safety covered by these requirements.

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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 this standard.

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

- IEC standards published by TC 59 concerning methods of 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.

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 only covers the risks associated with electrically motorized parts 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 such appliances. It does not cover risks associated with furniture containing heating elements.

Other safety aspects of furniture with and without electrically motorized parts are covered by the standards developed by ISO TC 136.

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 can 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.

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

- IEC standards published by TC 59 concerning methods of 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.

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.

This part of IEC 60335 deals with the safety of **furniture** with electrically motorized parts intended for household and similar purposes, their **rated voltage** being not more than 250 V including direct current (DC) supplied **furniture** and **battery-operated furniture**.

Furniture incorporating electrically motorized parts not intended for normal household use but which nevertheless can be a source of danger to the public, such as **furniture** intended to be used by laymen in shops, offices, hotels, restaurants, cinemas, hospitals, schools, in light industry and on farms, are within the scope of this standard.

Examples of **furniture** incorporating electrically motorized parts, are

- electrically operated/height adjustable tables and desks;
- electrically operated/adjustable stands and wall attachment for e.g. TV sets and monitors;
- electrically operated/adjustable seating;
- beds with incorporated ventilators and filters;
- electrically operated/adjustable beds;
- electrically operated/adjustable storage units including kitchen units;
- electrically operated/adjustable **furniture** intended to be secured to the wall or ceiling;
- electrically operated extension elements (drawers and doors);
- electric check-out **furniture** in hotels and shops;
- **furniture** delivered in parts (ready to assemble or knock-down **furniture**).

This standard deals with the reasonably foreseeable hazards presented by **furniture** incorporating electrically motorized parts that are encountered by all persons. However, in general, it does not take into account

- persons whose physical, sensory or mental capabilities, or lack of experience and knowledge prevents them from using the **furniture** incorporating electric appliances, parts or components safely without supervision or instruction;
- children playing with **furniture** incorporating electrically motorized parts.

Additional requirements can be necessary for **furniture** incorporating electrically motorized parts intended to be used in vehicles or on board ships or aircraft. In many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the national authorities for fire protection and similar authorities.

This standard does not apply to:

- **furniture** containing heating elements;
- **furniture** intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);
- massage beds and massage chairs (IEC 60335-2-32);
- medical electrical equipment (IEC 60601 series);
- audio/video, information and communication technology equipment (IEC 62368-1);
- electrical wheel chairs;
- special **furniture** incorporating electric appliances, parts or components, which are part of industrial production equipment;
- electric child care articles except electrical height adjustable changing (nursing) tables;
- **furniture** especially for use by children;
- **furniture** for outdoor use.

massaging function, are also evaluated to the applicable requirements of this standard.

For the purpose of this standard, the term "appliance" from here and onward is to be read as "**furniture** with electrically motorized parts".

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

IEC 60034-1, *Rotating electrical machines – Part 1: Rating and performance*

IEC 60061-1, *Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 1: Lamp caps*

IEC 60068-2-2, *Environmental testing – Part 2-2: Tests – Test B: Dry heat*

IEC 60068-2-31, *Environmental testing – Part 2-31: Tests – Test Ec: Rough handling shocks, primarily for equipment-type specimens*

IEC 60068-2-75, *Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests*

IEC 60068-2-78, *Environmental testing – Part 2-78: Tests – Test Cab: Damp heat, steady state*

IEC TR 60083, *Plugs and socket-outlets for domestic and similar general use standardized in member countries of IEC*

IEC 60085, *Electrical insulation – Thermal evaluation and designation*

IEC 60112:2020, *Method for the determination of the proof and the comparative tracking indices of solid insulating materials*¹

IEC 60127 (all parts), *Miniature fuses*

IEC 60227-5:2024, *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 5: Flexible cables (cords)*

IEC 60238, *Edison screw lampholders*

IEC 60245-4, *Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 4: Cords and flexible cables*

IEC 60252-1:2010, *AC motor capacitors – Part 1: General – Performance, testing and rating – Safety requirements – Guidance for installation and operation*
IEC 60252-1:2010/AMD1:2013²

¹ Void

² There exists a consolidated edition 2.1:2013 that includes edition 2 and its Amendment 1.

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interchangeability requirements for pin and contact-tube accessories

IEC 60320 (all parts), *Appliance couplers for household and similar general purposes*

IEC 60320-1, *Appliance couplers for household and similar general purposes – Part 1: General requirements*

IEC 60320-2-3, *Appliance couplers for household and similar general purposes – Part 2-3: Appliance couplers with a degree of protection higher than IPX0*

IEC 60320-3, *Appliance couplers for household and similar general purposes – Part 3: Standard sheets and gauges*

IEC 60384-14:2023, *Fixed capacitors for use in electronic equipment - Part 14: Sectional specification - Fixed capacitors for electromagnetic interference suppression and connection to the supply mains*³

IEC 60417, *Graphical symbols for use on equipment*

IEC 60445, *Basic and safety principles for man-machine interface, marking and identification - Identification of equipment terminals, conductor terminations and conductors*

IEC 60529:1989, *Degrees of protection provided by enclosures (IP Code)*

IEC 60529:1989/AMD1:1999

IEC 60529:1989/AMD2:2013⁴

IEC 60598-1:2024, *Luminaires - Part 1: General requirements and tests*⁵

IEC 60603-11, *Connectors for frequencies below 3 MHz for use with printed boards – Part 11: Detail specification for concentric connectors (dimensions for free connectors and fixed connectors)*

IEC 60664-1:2020, *Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests*

IEC 60664-1:2020/AMD1:2025

IEC 60664-3:2016, *Insulation coordination for equipment within low-voltage systems – Part 3: Use of coating, potting or moulding for protection against pollution*

IEC 60664-4:2005, *Insulation coordination for equipment within low-voltage systems – Part 4: Consideration of high-frequency voltage stress*

IEC 60691, *Thermal-links – Requirements and application guide*

IEC 60695-2-11:2021, *Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products (GWEPT)*

IEC 60695-2-12, *Fire hazard testing – Part 2-12: Glowing/hot-wire based test methods – Glow-wire flammability index (GWFI) test method for materials*

³ Void

⁴ There exists a consolidated edition 2.2:2013 that includes edition 2 and its Amendment 1 and Amendment 2.

⁵ Void

wire ignition temperature (GWIT) test method for materials

IEC 60695-10-2, *Fire hazard testing – Part 10-2: Abnormal heat – Ball pressure test*

IEC 60695-11-5:2016, *Fire hazard testing – Part 11-5: Test flames – Needle-flame test method – Apparatus, confirmatory test arrangement and guidance*

IEC 60695-11-10, *Fire hazard testing – Part 11-10: Test flames – 50 W horizontal and vertical flame test methods*

IEC 60730-1:2022, *Automatic electrical controls - Part 1: General requirements*⁶

IEC 60730-2-9, *Automatic electrical controls - Part 2-9: Particular requirements for temperature sensing controls*⁷

IEC 60730-2-10, *Automatic electrical controls for household and similar use – Part 2-10: Particular requirements for motor-starting relays*

IEC 60738-1, *Thermistors – Directly heated positive temperature coefficient – Part 1: Generic specification*

IEC 60747-5-5:2020, *Semiconductor devices - Part 5-5: Optoelectronic devices - Photocouplers*

IEC 60799, *Electrical accessories – Cord sets and interconnection cord sets*

IEC 60906-1, *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 60934, *Circuit-breakers for equipment (CBE)*

IEC 60990:2016, *Methods of measurement of touch current and protective conductor current*

IEC 60998-2-1, *Connecting devices for low-voltage circuits for household and similar purposes Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units*

IEC 60998-2-2, *Connecting devices for low-voltage circuits for household and similar purposes - Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units*

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 mm² up to 35 mm² (included)*

IEC 61000-4-2, *Electromagnetic compatibility (EMC) – Part 4-2: Testing and measurement techniques – Electrostatic discharge immunity test*

IEC 61000-4-3, *Electromagnetic compatibility (EMC) – Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test*

⁶ Void

⁷ Void

techniques – Electrical fast transient/burst immunity test

IEC 61000-4-5, *Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test*

IEC 61000-4-6, *Electromagnetic compatibility (EMC) – Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields*

IEC 61000-4-11:2020, *Electromagnetic compatibility (EMC) – Part 4-11: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase*

IEC 61000-4-13:2002, *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*

IEC 61000-4-13:2002/AMD1:2009

IEC 61000-4-13:2002/AMD2:2015⁸

IEC 61000-4-34:2005, *Electromagnetic compatibility (EMC) – Part 4-34: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current more than 16 A per phase*

IEC 61000-4-34:2005/AMD1:2009⁹

IEC 61032, *Protection of persons and equipment by enclosures - Probes for verification*

IEC 61058-1:2016, *Switches for appliances – Part 1: General requirements*

IEC 61058-1-1:2016, *Switches for appliances – Part 1-1: Requirements for mechanical switches*

IEC 61058-1-2:2016, *Switches for appliances – Part 1-2: Requirements for electronic switches*

IEC 61180, *High-voltage test techniques for low-voltage equipment – Definitions, test and procedure requirements, test equipment*

IEC 61210, *Connecting devices – Flat quick-connect terminations for electrical copper conductors – Safety requirements*

IEC 61558-1:2017, *Safety of transformers, reactors, power supply units and combinations thereof – Part 1: General requirements and tests*

IEC 61558-2-6, *Safety of transformers, reactors, power supply units and combinations thereof - Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers for general applications*

IEC 61558-2-16:2021, *Safety of transformers, reactors, power supply units and combinations thereof - Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units for general applications*¹⁰

⁸ There exists a consolidated edition 1.2:2015 that includes edition 1 and its Amendment 1 and Amendment 2.

⁹ There exists a consolidated edition 1.1:2009 that includes edition 1 and its Amendment 1.

¹⁰ Void

and failure of nose-sets

IEC 62133-1, *Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 1: Nickel systems*

IEC 62133-2:2017¹¹, *Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems*
IEC 62133-2:2017/AMD1:2021

IEC 62151, *Safety of equipment electrically connected to a telecommunication network*

IEC 62471, *Photobiological safety of lamps and lamp systems*

IEC 62471-7, *Photobiological safety of lamps and lamp systems - Part 7: Light sources and luminaires primarily emitting visible radiation*

IEC 62477-1, *Safety requirements for power electronic converter systems and equipment – Part 1: General*

IEC 62821-3, *Electric cables - Halogen-free, low smoke, thermoplastic insulated and sheathed cables of rated voltages up to and including 450/750 V - Part 3: Flexible cables (cords)*

IEC 63010-1, *Halogen-free thermoplastic insulated and sheathed flexible cables of rated voltages up to and including 300/300 V - Part 1: General requirements and cables*

ISO 178, *Plastics – Determination of flexural properties*

ISO 179-1, *Plastics – Determination of Charpy impact properties – Part 1: Non-instrumented impact test*

ISO 180, *Plastics – Determination of Izod impact strength*

ISO 527 (all parts), *Plastics – Determination of tensile properties*

ISO 1463, *Metallic and oxide coatings – Measurement of coating thickness – Microscopical method*

ISO 2178, *Non-magnetic coatings on magnetic substrates – Measurement of coating thickness – Magnetic method*

ISO 2768-1, *General tolerances – Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

ISO 4892-1:2016, *Plastics – Methods of exposure to laboratory light sources – Part 1: General guidance*

ISO 4892-2: 2013, *Plastics – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps*

¹¹ There exists a consolidated edition 1.1:2021 that includes edition 1 and its Amendment 1.

ISO 8256, *Plastics – Determination of tensile-impact strength*

ISO 9772, *Cellular plastics – Determination of horizontal burning characteristics of small specimens subjected to a small flame*

ISO 9773, *Plastics – Determination of burning behaviour of thin flexible vertical specimens in contact with a small-flame ignition source*

IEC 60050-482:2004, *International Electrotechnical Vocabulary (IEV) – Part 482: Primary and secondary cells and batteries*

IEC 60086-1, *Primary batteries – Part 1: General*

IEC 60086-2, *Primary batteries – Part 2: Physical and electrical specifications*

IEC 60227-3, *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 3: Non-sheathed cables for fixed wiring*

IEC 60227-7, *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 7: Flexible cables screened and unscreened with two or more conductors*

IEC 60245-3, *Rubber insulated cables – Rated voltages up to and including 450/750 V – Part 3: Heat resistant silicone insulated cables*

IEC 60245-7, *Rubber insulated cables – Rated voltages up to and including 450/750 V – Part 7: Heat resistant ethylene-vinyl acetate rubber insulated cables*

IEC 60335-2-29, *Household and similar electrical appliances – Safety – Part 2-29: Particular requirements for battery chargers*

IEC 60335-2-32, *Household and similar electrical appliances - Safety - Part 2-32: Particular requirements for massage appliances*

IEC 60364 (all parts), *Low voltage electrical installations*

IEC 60598 (all parts), *Luminaires*

IEC 60601 (all parts), *Medical electrical equipment*

IEC 60601-2-52, *Medical electrical equipment - Part 2-52: Particular requirements for the basic safety and essential performance of medical beds*

IEC 60695-2-11:2021, *Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end products (GWEPT)*

IEC 60721-2-1, *Classification of environmental conditions – Part 2-1: Environmental conditions appearing in nature – Temperature and humidity*

IEC 60730 (all parts), *Automatic electrical controls*

IEC 60745 (all parts), *Hand-held motor-operated electric tools – Safety*

IEC 60825-1:2014, *Safety of laser products – Part 1: Equipment classification and requirements*

IEC 60950-1, *Information technology equipment – Safety – Part 1: General requirements*

IEC 61000-3-2, *Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)*

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changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection

IEC 61029 (all parts), *Safety of transportable motor-operated electric tools*

IEC 61508-3:2010, *Functional safety of electrical/electronic/programmable electronic safety-related systems – Part 3: Software requirements*

IEC 61508-7:2010, *Functional safety of electrical/electronic/programmable electronic safety-related systems – Part 7: Overview of techniques and measures*

IEC 62280, *Railway applications – Communication, signalling and processing systems – Safety related communication in transmission systems*

IEC 62368-1, *Audio/video, information and communication technology equipment – Part 1: Safety requirements*

IEC 62841 (all parts), *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety*

CISPR 11, *Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement*

CISPR 14-1, *Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emission*

CISPR 14-2, *Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 2: Immunity – Product family standard*

ISO 8124-1:2022, *Safety of toys – Part 1: Safety aspects related to mechanical and physical properties*

ISO/IEC 9796 (all parts), *Information technology – Security techniques – Digital signature scheme giving message recovery*

ISO/IEC 9797 (all parts), *Information technology – Security techniques – Message Authentication Codes (MACs)*

ISO/IEC 9798 (all parts), *IT Security techniques – Entity authentication*

ISO/IEC 10118 (all parts), *IT Security techniques – Hash-functions*

ISO/IEC 11770 (all parts), *IT Security techniques – Key management*

ISO/IEC 14888 (all parts), *IT Security techniques – Digital signatures with appendix*

ISO/IEC 15946 (all parts), *Information technology – Security techniques – Cryptographic techniques based on elliptic curves*

ISO/IEC 18033 (all parts), *Information technology – Security techniques – Encryption algorithms*

ISO/IEC 19772 (all parts), *Information technology – Security techniques – Authenticated encryption*

ISO/IEC 29192 (all parts), *Information technology – Security techniques – Lightweight cryptography*

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and group safety publications

IEC Guide 108, *Guidelines for ensuring the coherence of IEC publications – Horizontal functions, horizontal publications and their application*

IEC Guide 110, *Home control systems – Guidelines relating to safety*

IEC Guide 117, *Electrotechnical equipment – Temperatures of touchable hot surfaces*

ISO/TS 15066:2016, *Robots and robotic devices - Collaborative robots*

ISO/IEC Guide 14, *Products and related services – Information for consumers*

ISO/IEC Guide 50, *Safety aspects – Guidelines for child safety in standards and other specifications*

ISO/IEC Guide 51, *Safety aspects – Guidelines for their inclusion in standards*

ISO/IEC Guide 71, *Guide for addressing accessibility in standards*