



SLOVENSKI STANDARD
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SIST EN 61058-1:2003
SIST EN 61058-1:2003/A2:2008

Stikala za aparate - 1. del: Splošne zahteve (IEC 61058-1:2016)

Switches for appliances - Part 1: General requirements (IEC 61058-1:2016)

Geräteschalter - Teil 1: Allgemeine Anforderungen (IEC 61058-1:2016)

Interrupteurs pour appareils - Partie 1: Règles générales (IEC 61058-1:2016)

Ta slovenski standard je istoveten z: EN IEC 61058-1:2018

ICS:

29.120.40 Stikala Switches

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NORME EUROPÉENNE
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English Version

Switches for appliances - Part 1: General requirements (IEC 61058-1:2016)

Interrupteurs pour appareils - Partie 1: Exigences générales
(IEC 61058-1:2016)

Geräteschalter - Teil 1: Allgemeine Anforderungen
(IEC 61058-1:2016)

This European Standard was approved by CENELEC on 2016-08-24. 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.

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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

EN IEC 61058-1:2018 (E)**European foreword**

The text of document 23J/401/FDIS, future edition 4 of IEC 61058-1, prepared by SC 23J "Switches for appliances", of IEC/TC 23 "Electrical accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61058-1:2017.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2018-11-25
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2021-05-25

This document supersedes EN 61058-1:2002.

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

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

For the relationship with EU Directives 2014/30/EU and 2014/35/EU, see informative Annexes ZZA and ZZB, which are an integral part of this document.

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Endorsement notice

The text of the International Standard IEC 61058-1:2016 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

| | | |
|---------------------|------|--|
| IEC 60034-1:2010 | NOTE | Harmonized as EN 60034-1:2010 (modified). |
| IEC 60068-2-20:2008 | NOTE | Harmonized as EN 60068-2-20:2008 (not modified). |
| IEC 60085:2007 | NOTE | Harmonized as EN 60085:2008 (not modified). |
| IEC 60228:2004 | NOTE | Harmonized as EN 60228:2005 (not modified). |
| IEC 60335-1 | NOTE | Harmonized as EN 60335-1. |
| IEC 60335-2 | NOTE | Harmonized in EN 60335-2 series. |
| IEC 60664-1:2007 | NOTE | Harmonized as EN 60664-1:2007 (not modified). |
| IEC 60893-1:2004 | NOTE | Harmonized as EN 60893-1:2004 (not modified). |

| | | |
|--------------------|------|---|
| IEC 60998-2-3:2002 | NOTE | Harmonized as EN 60998-2-3:2004 (modified). |
| IEC 61000 | NOTE | Harmonized in EN 61000 series. |
| IEC 61140 | NOTE | Harmonized as EN 61140. |

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Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|------------------|--------------|
| IEC 60038 | - | IEC standard voltages | EN 60038 | 2011 |
| IEC 60060-1 | - | High-voltage test techniques - Part 1: General definitions and test requirements | EN 60060-1 | 2010 |
| IEC 60065 (mod) | 2014 | Audio, video and similar electronic apparatus - Safety requirements | EN 60065 + A11 | 2014 2017 |
| IEC 60068-2-75 | - | Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests | EN 60068-2-75 | 2014 |
| IEC 60112 | 2003 | Method for the determination of the proof and the comparative tracking indices of solid insulating materials | EN 60112 | 2003 |
| + A1 | 2009 | | + A1 | 2009 |
| IEC 60127 | series | Miniature fuses | EN 60127 | series |
| IEC 60127-2 | - | Miniature fuses - Part 2: Cartridge fuse-links | EN 60127-2 | 2014 |
| IEC 60269-3 | - | Low-voltage fuses - Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household or similar applications) - Examples of standardized systems of fuses A to F | HD 60269-3 + A1 | 2010 2013 |
| IEC 60384-14 | - | 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 + A1 | 2013 2016 |
| IEC 60417 | - | Graphical symbols for use on equipment | - | - |

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|----------------|-------------|
| IEC 60529 | 1989 | Degrees of protection provided by enclosures (IP Code) | EN 60529 | 1991 |
| - | - | | + corr. May | 1993 |
| + A1 | 1999 | | + A1 | 2000 |
| + A2 | 2013 | | + A2 | 2013 |
| IEC 60617 | - | Graphical symbols for diagrams | - | - |
| 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 |
| + A1 | 2010 | | + A1 | 2010 |
| IEC 60691 | - | Thermal-links - Requirements and application guide | EN 60691 | 2016 |
| IEC 60695-2-11 | - | Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products (GWEPT) | EN 60695-2-11 | 2014 |
| IEC 60695-10-2 | - | Fire hazard testing - Part 10-2: Abnormal heat - Ball pressure test method | EN 60695-10-2 | 2014 |
| IEC 60695-11-10 | - | Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods | EN 60695-11-10 | 2013 |
| IEC 60695-11-20 | - | Fire hazard testing - Part 11-20: Test flames - 500 W flame test methods | EN 60695-11-20 | 2015 |
| | | | + AC | 2014 |
| IEC 60730 | series | Automatic electrical controls | EN 60730 | series |
| IEC 60730-1 (mod) | 2013 | Automatic electrical controls - Part 1: General requirements | EN 60730-1 | 2016 |
| | | | + A1 | 2016 |
| IEC 60730-2-9 | 2015 | Automatic electrical controls - Part 2-9: Particular requirements for temperature sensing controls | EN 60730-2-9 | 2016 |
| IEC 60738-1 | - | Thermistors - Directly heated positive temperature coefficient - Part 1: Generic specification | EN 60738-1 | 2006 |
| | | | + A1 | 2009 |
| IEC 61000-3-2 | - | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) | EN 61000-3-2 | 2014 |
| IEC 61000-3-3 | - | Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage 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 | EN 61000-3-3 | 2013 |
| IEC/TS 61000-3-5 | - | Electromagnetic compatibility (EMC) - Part 3-5: Limits - Limitation of voltage fluctuations and flicker in low-voltage power supply systems for equipment with rated current greater than 75 A | - | - |

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| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|------------------------------|----------------------|
| IEC 61000-4-2 | - | Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test | EN 61000-4-2 | 2009 |
| IEC 61000-4-3 | - | Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test | EN 61000-4-3 + A1 + A2 | 2006 2008 2010 |
| IEC 61000-4-4 | - | Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test | EN 61000-4-4 | 2012 |
| IEC 61000-4-5 | - | Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test | EN 61000-4-5 | 2014 |
| IEC 61000-4-8 | - | Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test | EN 61000-4-8 | 2010 |
| IEC 61000-4-11 | - | Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests | EN 61000-4-11 + A1 | 2004 2017 |
| IEC 61032 | 1997 | Protection of persons and equipment by enclosures - Probes for verification | EN 61032 | 1998 |
| IEC 61058-1-1 | - | Switches for appliances - Part 1-1: Requirements for mechanical switches | EN 61058-1-1 | 2016 |
| IEC 61058-1-2 | - | Switches for appliances - Part 1-2: Requirements for electronic switches | EN 61058-1-2 | 2016 |
| IEC 61210 (mod) | 2010 | Connecting devices - Flat quick-connect terminations for electrical copper conductors - Safety requirements | EN 61210 | 2010 |
| CISPR 14-1 | - | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission | EN 55014-1 + A1 + A2 | 2006 2009 2011 |
| CISPR 15 | 2013 | Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment | EN 55015 + A1 | 2013 2015 |

Annex ZZA (informative)

Relationship between this European Standard and the essential requirements of Directive 2014/30/EU [2014 OJ L96] aimed to be covered

This European Standard has been prepared under a Commission's standardization request as regards harmonized standards in support of Directive 2014/30/EU relating to electromagnetic compatibility, M/552 C(2016)7641, to provide one voluntary means of conforming to essential requirements of Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to electromagnetic compatibility [2014 OJ L96].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive, and associated EFTA regulations.

**Table ZZA.1 – Correspondence between this European standard and Annex I of Directive
2014/30/EU [2014 OJ L96]**

| Essential requirements of Directive 2014/30/EU | Clause(s) / sub-clause(s) of this EN | Remarks / Notes |
|--|---|-----------------|
| 1. General requirements | (standards.iteh.ai) | |
| Equipment shall be so designed and manufactured, having regard to the state of the art, as to ensure that: | SIST EN IEC 61058-1:2018 https://standards.iteh.ai/catalog/standards/sist/6543c5dc-76d7-495b-b254-07a8a06c10b8/sist-en-iec-61058-1-2018 | |
| (a) the electromagnetic disturbance generated does not exceed the level above which radio and telecommunications equipment or other equipment cannot operate as intended | Clause 25 EMC requirements | |
| (b) it has a level of immunity to the electromagnetic disturbance to be expected in its intended use which allows it to operate without unacceptable degradation of its intended use. | Clause 25 EMC requirements | |
| 2. Specific requirements for fixed installations | Not in the scope of EN 61058-1, -1-1 and -1-2 | |

WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.

EN IEC 61058-1:2018 (E)

Annex ZZB
(informative)

**Relationship between this European standard and the safety objectives of
Directive 2014/35/EU [2014 OJ L96] aimed to be covered**

This European Standard has been prepared under a Commission's standardization request relating to harmonized standards in the field of the Low Voltage Directive, M/511, to provide one voluntary means of conforming to safety objectives of Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits [2014 OJ L96].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZB.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding safety objectives of that Directive, and associated EFTA regulations.

**Table ZZB.1 – Correspondence between this European standard and Annex I of Directive
2014/35/EU [2014 OJ L96]**

| Safety objectives of Directive 2014/35/EU | Clause(s) / sub-clause(s) of this EN | Remarks / Notes |
|---|--|---|
| 1. General Conditions | EN 61058-1, -1-1, -1-2 | Implement Annex ZZ in EN 61058-1 and link to in EN 61058-1-1 and -1-2 |
| (a) the essential characteristics, the recognition and observance of which will ensure that electrical equipment will be used safely and in applications for which it was made, shall be marked on the electrical equipment, or, if this is not possible, on an accompanying document | clause 1, clause 4, clause 6, clause 7, clause 8 | |
| (b) the electrical equipment, together with its component parts, shall be made in such a way as to ensure that it can be safely and properly assembled and connected | clause 9, clause 10, clause 11, clause 12, clause 14, clause 19, clause 20 | |
| (c) the electrical equipment shall be so designed and manufactured as to ensure that protection against the hazards set out in points 2 and 3 is assured, providing that the equipment is used in applications for which it was made and is adequately maintained | clause 12, clause 13, clause 14, clause 15, clause 16, clause 17, clause 18, clause 19, clause 20, clause 21, clause 22, clause 23, clause 24, clause 25 | |
| 2. Protection against hazards | EN 61058-1, -1-1, -1-2 | Implement Annex ZZ in EN |

| | | |
|--|--|---|
| arising from the electrical equipment | | 61058-1 and link to in EN 61058-1-1 and -1-2 |
| (a) persons and domestic animals are adequately protected against the danger of physical injury or other harm which might be caused by direct or indirect contact | Clause 1, clause 9, clause 10, clause 20 | |
| (b) temperatures, arcs or radiation which would cause a danger, are not produced | Clause 16, clause 21 | |
| (c) persons, domestic animals and property are adequately protected against non-electrical dangers caused by the electrical equipment which are revealed by experience | Clause 18 | |
| (d) the insulation is suitable for foreseeable conditions | Clause 10, clause 15, clause 20 | |
| 3. Protection against hazards which may be caused by external influences on the electrical equipment | EN 61058-1, -1-1, -1-2 | Implement Annex ZZ in EN 61058-1 and link to in EN 61058-1-1 and -1-2 |
| (a) meets the expected mechanical requirements in such a way that persons, domestic animals and property are not endangered | Clause 18 | |
| (b) is resistant to non-mechanical influences in expected environmental conditions, in such a way that persons, domestic animals and property are not endangered | Clause 14, clause 22, clause 25 | |
| (c) does not endanger persons, domestic animals and property in foreseeable conditions of overload | Clause 7, clause 23 | |

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Switches for appliances –
Part 1: General requirements

Interrupteurs pour appareils –
Partie 1: Exigences générales

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