



SLOVENSKI STANDARD
oSIST prEN IEC 60670-1:2018/oprA11:2018
01-december-2018

Škatle in ohišja za električno opremo za gospodinjstvo in podobne nepremične električne inštalacije - 1. del: Splošne zahteve

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 1: General requirements

Dosen und Gehäuse für Installationsgeräte für Haushalt und ähnliche ortsfeste elektrische Installationen - Teil 1: Allgemeine Anforderungen

Boîtes et enveloppes pour appareillage électrique pour installations électriques fixes pour usages domestiques et analogues - Partie 1: Exigences générales

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Ta slovenski standard je istoveten z: prEN IEC 60670-1:2018/prA11:2018

ICS:

29.120.99	Druga električna dodatna oprema	Other electrical accessories
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en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN IEC 60670-1
prA11

October 2018

ICS 29.120.10

English Version

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 1: General requirements

Boîtes et enveloppes pour appareillage électrique pour
installations électriques fixes pour usages domestiques et
analogues - Partie 1: Exigences générales

To be completed

This draft amendment prA11, if approved, will modify the European Standard prEN IEC 60670-1; it is submitted to CENELEC members for enquiry.

Deadline for CENELEC: 2019-01-11.

It has been drawn up by CLC/TC 23BX.

If this draft becomes an amendment, 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.

This draft amendment was established by CENELEC 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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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

prEN IEC 60670-1:2018/prA11:2018 (E)**European foreword**

This document (prEN IEC 60670-1:2018/prA11:2018) has been prepared by SC 23B "Plugs, socket-outlets and switches", of IEC/TC 23 "Electrical accessories".

This document is currently submitted to the Enquiry.

The following dates are proposed:

- latest date by which the existence of this document has to be announced at national level (doa) dor + 6 months
- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) dor + 12 months
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) dor + 36 months (to be confirmed or modified when voting)

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 Directive(s) see informative Annex ZZ, which is an integral part of this document.

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1 Modification to Clause 7, Classification

Delete from Table 1 classifications 7.2.2.2 and 7.2.2.3.

2 Modification to Clause 8, Marking

Replace f) by:

f) void

Replace j) by:

j) the letter Ha or information for boxes and enclosures classified according to 7.2.2.1

3 Modification to Clause 11, Provision for earthing

11.2 Replace by

11.2 Void

Delete Figures 3, 4, and replace the relevant titles by "void".

4 Modification to Clause 12, Construction

12.4 Add the following after the 3rd paragraph:

In case there is a cavity, the head of the screw can be protected by an additional cap of insulating material. In this case the manufacturers instruction shall give information concerning the cap to be used.

In case there is no cavity the head of the screw shall be protected with a cap of insulating material and in this case, the cap shall be delivered with the box.

The cap shall stay in position during normal use.

Compliance is checked by the following test.

The caps are fixed to the boxes according to the manufacturer's instructions and subjected to the ageing test of 13.1.

After 1 h, the boxes are then turned to a position with the opening in the direction of the floor.

The cap shall not come detached.

12.6 Delete in the second paragraph the words " and/or IEC 60981".

12.13 Replace by

12.13 Void

Delete Figure 16 and replace the relevant titles by "void".

12.15 Delete in the second paragraph the words "or IEC 60981".

16.3 Replace by

16.3 Void

Delete Figure 25 and replace the relevant titles by "void".

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5 Modification to Clause 18, Resistance of insulating material to abnormal heat and fire

Replace the 2 bullets by:

- *By the test made at 850 °C:*
 - for parts of insulating material necessary to retain current-carrying parts and/or parts of the earthing circuit in position (with the exception of parts of insulating material needed to retain the earth terminal in position in a box), and*
 - for parts of insulating material of boxes and enclosures classified according to 7.2.2.1, with the exception of parts protruding from the wall and additional and/or removable internal parts of enclosure (eg. separator) not necessary to retain current carrying parts in position.*
- *By the test made at 650 °C:*
 - for parts of insulating material not necessary to retain current-carrying parts in position (even though they are in contact with them), and*
 - for parts of insulating material retaining earthing terminal in position;*
 - for parts of insulating material of boxes and enclosures classified according to 7.2.2.1, protruding from the wall and additional and/or removable internal parts of enclosure (eg. separator) not necessary to retain current carrying parts in position.*

6 Addition of the following new sub-clause:**Z1 Electromagnetic fields (EMF) requirements**

Products covered by this standard are, in normal use, passive or the electromagnetic field generated is considered negligible. Therefore, these requirements are deemed to be met without performing any test.

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Annex ZB (normative)

Special national conditions

Special national condition: National characteristic or practice that cannot be changed even over a long period, e.g. climatic conditions, electrical earthing conditions.

NOTE If it affects harmonization, it forms part of the European Standard / Harmonization Document.

For the countries in which the relevant special national conditions apply these provisions are normative, for other countries they are informative.

<u>Clause</u>	<u>Special national condition</u>
8.1	<p>United Kingdom</p> <p>Add after (e):</p> <p>The marking of the type reference is not used.</p>
9	<p>Spain</p> <p>Boxes shall comply with the standard sheets specified in the Spanish Standard UNE 20451. Screws are included in some of these standard sheets because screws are considered as a dimensional requirement.</p>
11.1	<p>Denmark</p> <p>Due to the lack of an earthing conductor in many existing old buildings, boxes and enclosures requiring earth connection cannot normally be used.</p>
12.5	<p>Czech Republic, Netherlands, United Kingdom</p> <p>Inlets according to 7.3.3 in boxes intended to receive switches or socket-outlets shall have spout(s) with adequate inlet stops.</p>
12.7	<p>Denmark, Germany</p> <p>A cable retention is required for boxes and enclosures for hollow walls due to installation practices.</p>
12.9	<p>Czech Republic, Netherlands</p> <p>Flush-type boxes shall have metal inserts and be provided with metal screws having ISO metric thread.</p> <p>United Kingdom</p> <p>With the exception of products within the scope of EN 60670-22 or EN 60670-23, boxes shall be provided with metal threads so as to ensure safety and thread-forming or thread-cutting screws shall not be used.</p>
13.2	<p>Denmark, Germany , Norway</p> <p>A minimum protection degree of IP30 is required for boxes and enclosures for hollow walls due to installation practices.</p>

prEN IEC 60670-1:2018/prA11:2018 (E)

Annex ZC (informative)

A-deviations

A-deviation: National deviation due to regulations, the alteration of which is for the time being outside the competence of the CENELEC national member.

This European Standard falls under Directive 73/23/EEC.

NOTE (from CEN/CENELEC IR Part 2:2002, 2.17) Where standards fall under EC Directives, it is the view of the Commission of the European Communities (OJ No C 59, 1982-03-09) that the effect of the decision of the Court of Justice in case 815/79 Cremonini/Vrankovich (European Court Reports 1980, p. 3583) is that compliance with A-deviations is no longer mandatory and that the free movement of products complying with such a standard should not be restricted except under the safeguard procedure provided for in the relevant Directive.

A-deviations in an EFTA-country are valid instead of the relevant provisions of the European Standard in that country until they have been removed.

Clause	Deviation
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9	Malta (Electrical Accessories Regulations, 2004)
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	United Kingdom (UK Plug and Socket Safety Regulations, 1994)
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	<p>6.1.1 Boxes intended to accommodate socket-outlets or connection units to BS 1363 shall have provision for two M3.5 fixing screws at the following fixing centres, in accordance with BS 4662:</p>
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	<p>6.1.2 – at centres of 60,3 mm ± 0,2 mm on the horizontal or vertical centrelines for boxes intended to accommodate 1-gang socket-outlets or connection units</p>
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	<p>6.1.3 – at centres of 120,6 mm ± 0,3 mm on the horizontal or vertical centrelines for boxes intended to accommodate 2-gang socket-outlets or connection units</p>
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	<p>6.1.4 – at centres of 180,9 mm ± 0,4 mm on the horizontal or vertical centrelines for boxes intended to accommodate 3-gang socket-outlets or connection units.</p>
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Annex ZZ (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 standardisation request relating to harmonised 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 harmonisation 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 ZZ.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 ZZ.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	General requirement	
(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 to 7 8 - Marking Annex ZA (Normative reference) Annex ZB (Special National Conditions)	
(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 1 to 7 8 - Marking 9 - Dimensions 10 - Protection against electrical shock 11 - Provision for earthing 12 – Construction 13 – Resistance to ageing, protection against ingress of solid objects and against harmful ingress of water Annex ZA (Normative reference) Annex ZB (Special National Conditions) Annex ZC (A-Deviations)	

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<p>(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.</p>	<p>Clause 1 to 7</p> <p>10 - Protection against electrical shock</p> <p>11 - Provision for earthing</p> <p>12 – Construction</p> <p>14 - Insulation resistance and electrical strength</p> <p>15 - Mechanical strength</p> <p>17 - Creepage distances, clearances and distances through sealing compound</p> <p>Annex ZA (Normative reference)</p> <p>Annex ZB (Special National Conditions)</p>	
<p>2. Protection against hazards arising from the electrical equipment</p>		
<p>Measures of a technical nature shall be laid down in accordance with point 1, in order to ensure that:</p>	<p style="text-align: center;">ITEH STANDARD PREVIEW (standards.iteh.ai)</p>	
<p>(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;</p>	<p>Clause 1 to 7</p> <p>10 - Protection against electrical shock</p> <p>11 - Provision for earthing</p> <p>14 - Insulation resistance and electrical strength</p> <p>15 - Mechanical strength</p> <p>17 - Creepage distances, clearances and distances through sealing compound</p> <p>18 - Resistance of insulating material to abnormal heat and fire</p> <p>19 - Resistance to tracking</p> <p>Annex ZA (Normative reference)</p> <p>Annex ZB (Special National Conditions)</p>	
<p>(b) temperatures, arcs or radiation which would cause a danger, are not produced;</p>	<p>Clause 1 to 7</p> <p>14- Insulation resistance and electrical strength</p>	