
Omarice in ohišja za električno opremo za gospodinjstvo in podobne nepremične električne inštalacije - 22. del: Posebne zahteve za priključne omarice in ohišja

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 22: Particular requirements for connecting boxes and enclosures

Dosen und Gehäuse für elektrische Installationsgeräte für Haushalt und ähnliche ortsfeste elektrische Installationen - Teil 22: Besondere Anforderungen für Verbindungsdosen

Boîtes et enveloppes pour appareillage électrique pour installations électriques fixes pour usages domestiques et analogues - Partie 22: Règles particulières concernant les boîtes et enveloppes de connexion

Ta slovenski standard je istoveten z: EN 60670-22:2006/prAA

ICS:

29.120.99	Druga električna dodatna oprema	Other electrical accessories
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SIST EN 60670-22:2007/oprAA:2021 **en,fr,de**

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[SIST EN 60670-22:2007/oprAA:2021](https://standards.iteh.ai/catalog/standards/sist/7a8a0a76-7c06-4bfc-80c7-64133f3e143e/sist-en-60670-22-2007-opraa-2021)

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
EN 60670-22:2006

prAA

August 2021

ICS 29.120.10

English Version

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 22: Particular requirements for connecting boxes and enclosures

Boîtes et enveloppes pour appareillage électrique pour
installations électriques fixes pour usages domestiques
et analogues - Partie 22: Règles particulières
concernant les boîtes et enveloppes de connexion

Dosen und Gehäuse für elektrische Installationsgeräte für
Haushalt und ähnliche ortsfeste elektrische Installationen -
Teil 22: Besondere Anforderungen für Verbindungsdosen

This draft amendment prAA, if approved, will modify the European Standard EN 60670-22:2006; it is submitted to CENELEC members for enquiry.

Deadline for CENELEC: 2021-11-05.

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, 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, 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

EN 60670-22:2006/prAA:2021**European Foreword**

This document (EN 60670-22:2006/prAA:2021) has been prepared by CLC/TC 23BX "Switches, boxes and enclosures for household and similar purposes, plugs and socket outlet for D.C.".

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 will amend EN 60670-22:2006/prA1:2021

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 ZZ, which is an integral part of this document.

1 Modification to Clause 2, "Normative references"

Delete the common modification of EN 60670-22:2006 to Clause 2.

In Clause 2 and in the body of the text that follows, replace the reference to IEC 60998 (series) with the following references:

"IEC 60998-1:2002, Connecting devices for low-voltage circuits for household and similar purposes - Part 1: General requirements

IEC 60998-2-1:2002, 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 60998-2-2:2002, 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 60998-2-3:2002, Connecting devices for low-voltage circuits for household and similar purposes - Part 2-3: Particular requirements for connecting devices as separate entities with insulation-piercing clamping units

IEC 60998-2-4:2004, Connecting devices for low-voltage circuits for household and similar purposes - Part 2-4: Particular requirements for twist-on connecting devices"

2 Modification to Clause 4, "General requirements"

Replace the existing text with the following:

"This clause of Part 1 is applicable with the following addition:

Connecting devices incorporated in connecting boxes shall comply with the requirements of the IEC 60998 series; integrated clamping units shall comply with the requirements of the IEC 60999 series."

3 Modification to Clause 5, "General notes on tests"

Replace 5.2 with the following:

"5.2 Add at the end:

Connecting boxes with provision for subsequent incorporation of terminals or connecting devices are tested with the terminals or connecting devices recommended by the manufacturer.

Connecting devices according to the IEC 60998 series need not be tested again."

4 Modifications to Clause 16, "Resistance to heat"

Replace 16.101 with the following:

"16.101 Connecting boxes and enclosures classified according to 7.101.1 having parts of insulating material shall be sufficiently resistant to heat.

Compliance is checked by the test of 16.101.1 to 16.101.3."

Replace 16.102 with the following:

"16.102 Connecting boxes and enclosures classified according to 7.101.1 shall be so constructed that the temperature rise in normal use does not exceed the value specified in 16.102.4.

Compliance is checked by the tests of 16.102.1 to 16.102.3."

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 60998-1	2002	Connecting devices for low-voltage circuits for household and similar purposes - Part 1: General requirements	EN 60998-1	2004
IEC 60998-2-1	2002	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	EN 60998-2-1	2004
IEC 60998-2-2	2002	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	EN 60998-2-2	2004
IEC 60998-2-3	2002	Connecting devices for low-voltage circuits for household and similar purposes - Part 2-3: Particular requirements for connecting devices as separate entities with insulation-piercing clamping units	EN 60998-2-3	2004
IEC 60998-2-4	2004	Connecting devices for low-voltage circuits for household and similar purposes - Part 2-4: Particular requirements for twist-on connecting devices	EN 60998-2-4	2005

EN 60670-22:2006/prAA:2021

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
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

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EN 60670-22:2006/prAA:2021

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>
4	Germany Terminal blocks according to IEC 60947-7-1 and -7-2 are allowed to be incorporated in connecting boxes
5.2	Germany Terminal blocks according to IEC 60947-7-1 and -7-2 need not be tested again
5.2	United Kingdom Connecting boxes shall be tested either: <ul style="list-style-type: none"> — with their incorporated terminals or connecting devices or — with the terminals or connecting devices recommended by the manufacturer for connecting boxes with provision for subsequent incorporation of terminals or connecting devices
8.1	United Kingdom Marking of item n) is mandatory in United Kingdom
16.102	United Kingdom Connecting devices integrated or incorporated in connecting boxes shall be so constructed that the temperature rise in normal use does not exceed the values specified in 16.102.4. Compliance is checked by the tests of 16.102.1 to 16.102.3

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 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 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) / subclause(s) of this EN	Remarks / Notes
1. General conditions		
(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;	8 - Marking	
(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 ;	8 - Marking 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	

EN 60670-22:2006/prAA:2021

Safety objectives of Directive 2014/35/EU	Clause(s) / subclause(s) of this EN	Remarks / Notes
(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 ensured, providing that the equipment is used in applications for which it was made and is adequately maintained.	10 - Protection against electrical shock 11 - Provision for earthing 12 – Construction 14 - Insulation resistance and electrical strength 15 - Mechanical strength 17 - Creepage distances, clearances and distances through sealing compound	
2. Protection against hazards arising from the electrical equipment Measures of a technical nature shall be laid down in accordance with point 1, in order to ensure that:		
(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 ;	10 - Protection against electrical shock 11 - Provision for earthing 14 - Insulation resistance and electrical strength 15 - Mechanical strength 17 - Creepage distances, clearances and distances through sealing compound 18 - Resistance of insulating material to abnormal heat and fire 19 - Resistance to tracking	
(b) temperatures, arcs or radiation which would cause a danger, are not produced;	14 - Insulation resistance and electrical strength 16 - Resistance to heat 17 - Creepage distances, clearances and distances through sealing compound 18 - Resistance of insulating material to abnormal heat and fire 19 - Resistance to tracking Z1 - Electromagnetic fields (EMF) requirements	
(c) persons, domestic animals and property are adequately protected against non-electrical dangers caused by the electrical equipment which are revealed by experience;	12 – Construction 15 - Mechanical strength	
(d) the insulation is suitable for foreseeable conditions.	14 - Insulation resistance and electrical strength 15 - Mechanical strength 16 – Resistance to heat 17 - Creepage distances, clearances and distances through sealing compound 18 - Resistance of insulating material to abnormal heat and fire 19 - Resistance to tracking	