

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



### AMENDMENT 1

### AMENDEMENT 1

**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 usage domestique et analogue –  
Partie 22: Règles particulières concernant les boîtes et enveloppes de connexion**





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~~IEC STANDARD PREVIEW~~  
**Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – (standards.iteh.ai)**  
**Part 22: Particular requirements for connecting boxes and enclosures**

~~IEC 60670-22:2003/AMD1:2015~~  
**Boîtes et enveloppes pour appareillage électrique pour installations électriques fixes pour usage domestique et analogue –**  
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INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

ICS 29.120.10

ISBN 978-2-8322-2259-1

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## FOREWORD

This amendment has been prepared by subcommittee 23B: Plugs, socket-outlets and switches, of IEC technical committee 23: Electrical accessories.

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

FDIS	Report on voting
23B/1174/FDIS	23B/1182/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.

Annex AA and Annex BB are for information only.

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability 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- withdrawn,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.

**iTeh STANDARD PREVIEW  
(standards.iteh.ai)**

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## 3 Definitions

### 3.102

#### **connecting box with integral clamping units**

Replace the term and definition of 3.102 by the following:

#### **connecting box with integrated clamping units**

connecting box in which clamping units are permanently retained as an integrated part of the box (see Annex AA)

### 3.107

#### **terminal**

Replace the definition of 3.107 by the following:

conductive part of one pole comprising one or more clamping unit(s) and insulation if necessary

**3.109**  
**connecting device**

*Add the following note after the definition:*

NOTE For a schematic representation of connecting devices see Figure BB.1 of Annex BB.

**4 General requirements**

*Replace the existing text by 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.

NOTE In the following countries terminal blocks according to IEC 60947-7-1 and -7-2 are allowed to be incorporated in connecting boxes: DE.

**5 General notes on tests**

**5.2 Replace the text of the existing addition by the following:**

*Connecting boxes with provision for subsequent incorporation of clamping units are tested with the clamping units recommended by the manufacturer.  
(standards.iteh.ai)*

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

*IEC 60670-22:2003/AMD1:2015*

NOTE 1 In the following countries terminal blocks according to IEC 60947-7-1 and -7-2 need not be tested again:  
DE <http://standards.iteh.ai/60670-22/2003/AMD1-2015>  
4ca8870d2938/iec-60670-22-2003-amd1-2015

NOTE 2 In the following countries connecting boxes shall be tested either:

- 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:  
UK.

**6 Ratings**

**6.1 Replace the existing text by the following:**

The preferred values of the rated voltage of the integrated or incorporated connecting devices are 125 V, 250 V, 300 V, 400 V, 500 V, 600 V, 690 V, 800 V, 1 000 V a.c. and 1 500 V d.c.

**8 Marking**

**8.1 Add after item m):**

The information l) and m) are optional for boxes classified according to 7.101.4.

*Add the following new item:*

n) Boxes and enclosures classified according to 7.101.1 or 7.101.2 shall be marked with an appropriate rated current which does not exceed the test current given in Table 101.

*Add "n)" after "k) and l)" in the first two dashed texts of NOTE 1.*

## 15 Mechanical strength

Replace the existing text of this clause by the following:

This clause of Part 1 applies with the following amendment:

### 15.2 Replace the sixth paragraph by the following:

*Damage to the finish, small dents which do not reduce creepage distances or clearances below the value specified in Table 102 and small chips which do not adversely affect the protection against electric shock or harmful ingress of water are disregarded.*

## 16 Resistance to heat

### 16.102 Replace the existing text by the following:

*Connecting devices integrated in connecting boxes 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.*

**NOTE** In the following countries 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: UK.

## Delete STANDARD PREVIEW (standards.iteh.ai)

## 17 Creepage distances, clearances and distances through sealing compound

[IEC 60670-22:2003/AMD1:2015](#)

Add the following text after the first paragraph:  
<https://standards.iteh.ai/standard/standards/sist/8325011f-65f4-4102-935b-4ca8870d2938/iec-60670-22-2003-amd1-2015>

This test does not apply to boxes for floating terminals or connecting devices classified according to 7.101.4.

*Delete the last but one paragraph.*

## Annex AA

### Figure AA.1a – With integral clamping units

Replace the title of Figure AA.1a by the following:

### Figure AA.1a – Enclosures with integral clamping units according to 7.101.1

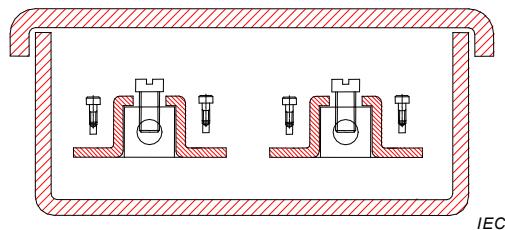
### Figure AA.1b – With incorporated terminals or connecting devices

Replace the title of Figure AA.1b by the following:

### Figure AA.1b – Enclosures with incorporated terminals or connecting devices according to 7.101.2

### Figure AA.1c – With provisions for incorporating subsequently terminals or connecting devices

Replace Figure AA.1c by the following



**Figure AA.1c – Enclosures with provisions for subsequent incorporation of terminals or connecting devices according to 7.101.3**

**Figure AA.1d – With floating terminals or connecting devices**

Replace the title of Figure AA.1d by the following:

**Figure AA.1d – Enclosures without fixing (for floating terminals or connecting devices) according to 7.101.4**

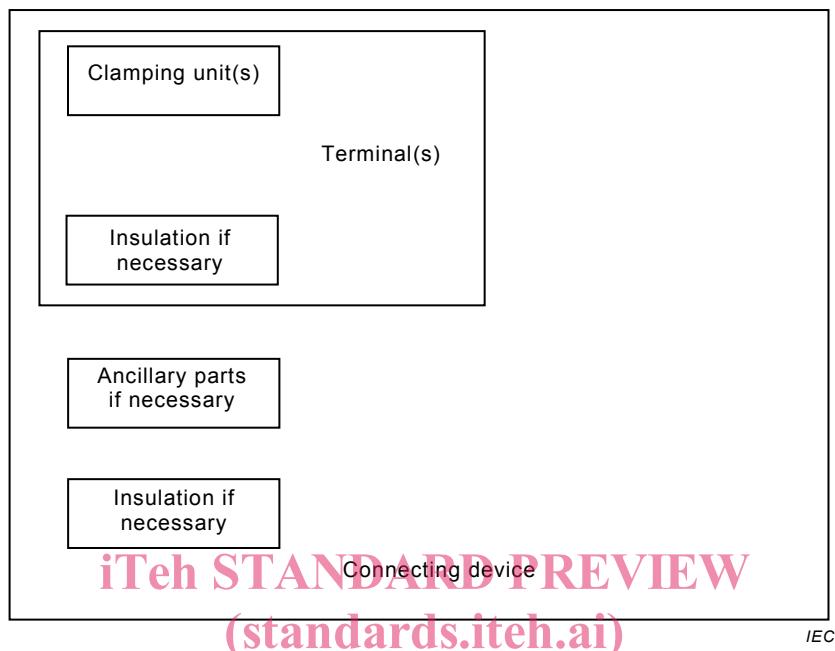
Add the following new Annex BB:

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[IEC 60670-22:2003/AMD1:2015](https://standards.iteh.ai/catalog/standards/sist/8325011f-65f4-4102-935b-4ca8870d2938/iec-60670-22-2003-amd1-2015)  
<https://standards.iteh.ai/catalog/standards/sist/8325011f-65f4-4102-935b-4ca8870d2938/iec-60670-22-2003-amd1-2015>

**Annex BB**  
(informative)

**Schematic presentation of connecting devices  
as a basis for the definitions**



**Figure BB.1 – Schematic presentation**  
<https://standards.iteh.ai/catalog/standards/sist/8325011f-65f4-4102-935b-4ca8870d2938/iec-60670-22-2003-amd1-2015>

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[IEC 60670-22:2003/AMD1:2015](#)

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