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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 17466.22-2022

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

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents" drafted.

This document is part 22 of GB/T 17466 "Installation Boxes and Enclosures for Electrical Accessories for Household and Similar Fixed Electrical Installations".

GB/T 17466 has released the following parts.

--- Part 1. General requirements;

--- Part 2. Special requirements.

* Part 21. Particular requirements for mounting boxes and enclosures for suspension devices;

* Part 22. Particular requirements for connection boxes and enclosures;

* Part 23. Particular requirements for ground-mounted boxes and enclosures;

* Part 24. Particular requirements for enclosures of residential protection devices and other power-consuming electrical appliances.

This document replaces GB/T 17466.22-2008 "Installation boxes and enclosures of electrical accessories for household and similar fixed electrical installations

Part 22. Special requirements for connection boxes and enclosures", compared with GB/T 17466.22-2008, except for structural adjustments and editorial changes,

The main technical changes are as follows.

--- Changed the definition of terminals (see 3.107, 3.107 of the 2008 edition);

--- Changed the general description about the test (see 5.2, 5.2 of the 2008 edition);

--- Changed the rated voltage preferred value of the integral or combined connection device (see 6.1, 6.1 of the.2008 edition);

--- Added the requirements for the marking of connection boxes and enclosures classified according to 7.101.1 or 7.101.2 (see 8.1).

This document is modified to adopt IEC 60670-22.2015 "Installation boxes and enclosures of electrical accessories for fixed electrical installations for household and similar purposes.

Part 22.Particular requirements for connecting boxes and enclosures.

The technical differences between this document and IEC 60670-22.2015 and their reasons are as follows.

---Added "This document specifies the technical requirements for the marking, protection against electric shock, structure, mechanical properties and electrical properties of the connection box and shell.

beg. ", to comply with the provisions of GB/T 1.1;

--- Added requirements for complete clamping parts (see Chapter 4);

---Replace IEC 60999-1.1999 with the normatively cited GB/T 17464 to adapt to my country's technical conditions and improve operability

Sex (see Chapter 4);

--- Replaced IEC 60998 with the normatively quoted GB/T 13140 (all parts), in order to adapt to the technical conditions of our country and improve the availability

operability (see Chapter 4, 5.2, 12.101, 12.102 and 16.102.3);

The following editorial changes have been made to this document.

--- 3.102, 3.103, 3.104, 3.105 have added corresponding specific drawing numbers in the definitions;

--- Deleted the notes applicable to other countries in IEC 60670-22.2015, such as Notes to Chapter 4, Note 1 of 5.2 and Notes 2 and 6.2

Note 1 to Note 4, Note of 16.102.

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

GB/T 17466 aims to standardize the technical requirements for the installation boxes and enclosures of electrical accessories for household and similar fixed electrical installations.

The safe use of certified products is intended to consist of the following parts.

--- Part 1. General requirements. The purpose is to specify electrical accessory boxes and enclosures for household and similar fixed electrical installations.

General requirements for shell structure, mechanical properties, electrical properties, etc.

--- Part 21. Particular requirements for mounting boxes and enclosures for suspension devices. The purpose is to specify the mounting box for the suspension device

And the technical requirements of anti-shock protection, structure, mechanical properties and electrical properties of the shell.

--- Part 22. Particular requirements for connection boxes and enclosures. The purpose is to specify the protection against electric shock, structure, mechanical

performance, electrical performance and other technical requirements.

--- Part 23. Particular requirements for ground-mounted boxes and enclosures. The purpose is to specify the protection against electric shock of ground-mounted boxes and enclosures,

Technical requirements for structure, mechanical properties, electrical properties, etc.

--- Part 24. Particular requirements for enclosures of residential protection devices and other power-consuming electrical appliances. The purpose is to specify residential protective equipment

Technical requirements such as protection against electric shock, structural requirements, mechanical properties, and electrical properties of enclosures and other power-consuming electrical appliances.

This document can provide guidance for the production of connection box and shell products, improve the technical performance and safety and reliability of products, and protect the public

electricity safety.

Household and similar fixed electrical installations

Electrical Accessory Mounting Boxes and Enclosures Part 22.

Special requirements for connection boxes and enclosures

1 Scope

This document specifies the technical requirements for the marking, protection against electric shock, structure, mechanical properties, and electrical properties of the connection box and enclosure.

This chapter of GB/T 17466.1-2019 shall apply after adding the following contents.

Add after the fourth paragraph.

This document applies to junction boxes for termination and/or tap.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

This chapter of GB/T 17466.1-2019 shall apply after adding the following contents.

GB/T 13140 (all parts) Connecting devices for household and similar low-voltage circuits [IEC 60998 (all parts)]

Note. GB/T 13140.1-2008 Connecting devices for household and similar low-voltage circuits - Part 1.General requirements (IEC 60998-1.2002, IDT);

GB/T 13140.2-2008 Connecting devices for household and similar low-voltage circuits - Part 2.Threaded clamping parts as independent units

Particular requirements for connecting devices (IEC 60998-2-1.2002, IDT);

GB/T 13140.3-2008 Connecting devices for low-voltage circuits for household and similar purposes - Part 2.As a separate unit with screwless clamping

Particular requirements for connecting devices of parts (IEC 60998-2-2.2002, IDT);

GB/T 13140.4-2008 Connecting devices for low-voltage circuits for household and similar purposes - Part 2.As a separate unit with piercing insulating clips

Particular requirements for connecting devices for tight fittings (IEC 60998-2-3.2002, IDT);

GB/T 13140.5-2008 Connecting devices for household and similar low-voltage circuits - Part 2.Particular requirements for twist-connecting devices (IEC 60998-2-4.2004, IDT).

GB/T 17464 Safety requirements for threaded and unthreaded clamping parts of electrical copper conductors for connecting devices are applicable to 0.2mm²

General requirements and special requirements for clamping parts of conductors up to 35mm² (inclusive) (GB/T 17464-2012, IEC 60999-1.1999, IDT)

GB/T 20636 Safety requirements for threaded and non-threaded clamping parts of