

ICS 29.120.50

CCS K 31



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

GB/T 37751.31-2019

**Residual current operated circuit-breakers for household and
similar use -- Part 3-1: Particular requirements for RCDs with
screwless-type terminals for external copper conductors**

Issued on: June 4, 2019

Implemented on: January 1, 2020

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

Foreword

1 Scope

1 or IEC 61009-1) used together.

2 Normative references

3 Terms and definitions

Foreword

GB/T 37751 "Residual current operated circuit breakers for household and similar purposes" is divided into the following sections.

--- Part 1. Overview of independent modules and unit modules for residual current electrical standards (GB/T 37751.1);

--- Part 2. Residual current electrical appliances (RCD) vocabulary (GB/T 37751.2);

--- Part 3-1. Particular requirements for RCDs with non-threaded terminals to be connected to external copper conductors (GB/T 37751.31);

--- Part 3-2. Particular requirements for RCDs with flat quick-connect ends (GB/T 37751.32);

---Part 3-3. Threaded terminal blocks with external untreated aluminium conductors and aluminium threaded connection to copper or aluminium conductors

Special requirements for type terminal block RCD (GB/T 37751.33).

This part is part 3-1 of GB/T 37751.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This section uses the translation method equivalent to IEC 62873-3-1.2016 "Residual current operated circuit breakers for household and similar purposes 3-1"

Part. Special requirements for RCDs with unthreaded terminal blocks for external copper conductors.

The documents of our country that have a consistent correspondence with the international documents referenced in this part are as follows.

---GB/T 16916.1-2014 Residual current operated circuit breaker (RCCB) without overcurrent protection for household and similar purposes

Part 1. General rules (IEC 61008-1.2012, MOD);

---GB/T 16917.1-2014 Residual current operated circuit breaker (RCBO) with overcurrent protection for household and similar purposes

Part 1. General rules (IEC 61009-1.2012, MOD);

--- GB/T 37751.2-2019 Residual current operated circuit breakers for household and similar purposes - Part 2

(RCD) vocabulary (IEC 62873-2.2016, IDT).

This section has made the following editorial changes.

--- Deleted the original note in the first note in Chapter 1, the original note in 3.2, and the second half of the original note 2 in 9.3.2, whose content has nothing to do with China;

--- Table 1 "Connectable wires" Note in the reference file "ASTMB172-01a" is incorrect, changed to "ASTMB172-17", the same

It is modified accordingly in the reference.

This part was proposed by China Electrical Equipment Industry Association.

This part is under the jurisdiction of the National Low Voltage Electrical Appliance Standardization Technical Committee (SAC/TC189).

This section drafted by. Shanghai Electric Apparatus Research Institute, Zhejiang Zhengtai Electric Co., Ltd., Zhongshan Kaipu Electric Co., Ltd., Shi

Ned Electric (China) Co., Ltd. Shanghai Branch.

1 Scope

This part of GB/T 37751 is applicable to RCDs with unthreaded terminals with rated current not exceeding 20A.

The terminal blocks are mainly used to connect untreated (see 3.5) copper conductors with a cross-sectional area of 4 mm².

This section cannot be used alone. For RCDs with unthreaded terminals, this part and the RCD product standard (IEC 61008-

1 or IEC 61009-1) used together.

In this section, the non-threaded terminal block is called a terminal block, and the copper wire is called a wire.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

IEC 61008-1 Residual current operated circuit-breakers (RCCB) without overcurrent protection for household and similar purposes - Part 1. 1

General rule [Residual current operated circuit-breakers without integral overcurrent protection for

Household and similar uses (RCCBs)-Part 1. General rules]

IEC 61009-1 Residual current operated circuit breakers (RCBO) with overcurrent protection for household and similar purposes - Part 1. General

Rule

[Residual current operated circuit-breakers with integral overcurrent protection for household and

Similar uses (RCBOs)-Part 1. General rules]

Residual current operated circuit breakers for household and similar purposes - Part 2.

Residual current electrical appliances (RCD) vocabulary [Re-

Sidual current operated circuit-breakers for household and similar uses-Part

2. Residual current de-

Vices (RCDs)-Vocabulary]

3 Terms and definitions

The following terms and definitions as defined by IEC 62873-2 apply to this document.

3.1

Clamping unit clamping units

The components necessary for mechanical clamping and electrical connection of the conductors in the terminals, including the components necessary to ensure normal contact pressure.

3.2

Universal terminal block universal terminal

Terminal block for connecting and removing all type conductors (hard and soft).

3.3

Non-universal terminal block non-universal terminal

Used only to connect and disconnect certain wires [for example, only for hard solid wires or terminals for hard (solid or stranded) wires only].

chinastandards.org · PREVIEW