



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

GB/T 37751.32-2019

**Residual current operated circuit-breakers for household and
similar use -- Part 3-2: Particular requirements for RCDs with
flat quick-connect terminations**

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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 3-2 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 62873-3-2:2016 "Residual current operated circuit breakers for household and similar purposes" 3-2

Part. Special requirements for RCDs with flat quick-connect tips.

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 17196-2017 Safety requirements for flat quick-connect terminals for connecting copper wires to connecting devices (IEC 61210.

2010, 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 1 in Chapter 1, the original note 1 in 8.2.2, and its content has nothing to do with China.

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).

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1 Scope

This part of GB/T 37751 applies to RCD with flat quick-connect tip, which has a nominal width of 6.3 mm and thickness.

0.8mm plug-in connector (see 3.2) and its associated plug connector for connecting the electrical copper guide according to the manufacturer's instructions

Line, rated current is less than or equal to 16A.

This part cannot be used alone. It must be used together with the RCD product standard (IEC 61008-1 or IEC 61009-1) for flat quick connection.

Connect the end of the RCD.

The connectable electrical copper wire is a flexible wire with a cross-sectional area of 4 mm² or less, or a hard wire with a cross-sectional area of 2.5 mm² or less (AWG

The wire gauge is equal to or greater than 12).

This section specifically applies to the RCD of the plug-in tab as an integral part.

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 [Residualcurrentoperatedcircuit-breakers without integralovercurrentprotectionfor

Householdandsimilaruses(RCCBs)-Part 1.Generalrules]

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

Rule

[Residualcurrentoperatedcircuit-breakerswithintegralovercurrentprotectionforhouseholdand

Similaruses(RCBOs)-Part 1.Generalrules]

Safety requirements for flat quick-connect terminals for connecting copper conductors to IEC 61210 connecting devices (Connectingdevices-Flat

Quick-connectterminationsforelectricalcopperconductors-Safetyrequirements)

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

Residual current electrical appliances (RCD) vocabulary [Re-

Sidualcurrentoperatedcircuit-breakersforhouseholdandsimilaruses-Part

2.Residualcurrentde-

Vices(RCDs)-Vocabulary]

3 Terms and definitions

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

3.1

Flat quick connect end flatquick-connecttermination

The electrical connection is made up of the plug-in connection piece and the socket connector, and the socket connector can be pushed in and out with or without a tool.

3.2

Plug-in connector

A part of the quick connect end that accepts the socket connector.

3.3

Plug connector femaleconnector

A part of the quick connect end that is used to push into the plug-in tab.

3.4

Positioning buckle detent

A dimple (recess) or hole that engages with the convex portion of the plug connector on the plug-in tab as a latch for the mating portion.

4 classification

Chapter 4 of the RCD Product Standards applies.

5 RCD features

Chapter 5 of the RCD Product Standards applies.

6 logo and other product information

Except for Chapter 6 of the RCD Product Standard, the following requirements apply.

The following information on the IEC 61210-compliant connector and the type of conductor used should be given in the manufacturer's instructions.

---Manufacturer's name or trademark;

---model;

---Wire cross-sectional area and information on the color code of the insulating socket connector (see the example in Table 1);