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

GB/T 37751.1-2019

**Residual current operated circuit-breakers for household and
similar use -- Part 1: Outline of blocks and modules for residual
current devices standard**

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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 the first part of GB/T 37751.

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

This section uses the redrafting method to modify the use of IEC 62873-1.2017 "Residual current operated circuit breakers for household and similar purposes"

Part 1. Overview of Independent Modules and Unit Modules for Residual Current Appliance Standards.

The technical differences between this part and IEC 62873-1.2017 and their reasons are as follows.

---About the normative reference documents, this part has made technical adjustments to adapt to China's technical conditions, adjustments

The situation is reflected in Chapter 2, "Regulatory Citations", and the specific adjustments

are as follows.

- * Replace IEC /T R60755 with GB/T 6829 modified to adopt international standards;
 - * Replace IEC 61008-1 with GB/T 16916.1 modified to adopt international standards;
 - * Replace IEC 61009-1 with GB/T 16917.1 modified to international standards.
- Modify SC23E as a technical committee to comply with the domestic standard committee.
- In order to comply with China's drafting standard procedures, modify the following.
- * The third column in 4.2.1 was revised to "the drafting group revised the unified terms", and Figure 1 was modified accordingly.
 - * The fourth column in 4.2.1 was amended to read "The revised drafting clause of the drafting group was submitted to the Technical Committee. Technical Committee Identify technical and editorial changes and publish them as separate modules or as technical modules Library. ", Figure 1 is modified accordingly.
 - * The first column of 4.2.2 was changed to "Request for Technical Comments in the Technical Committee", and Figure 1 was revised accordingly.
 - * The second column of 4.2.2 was changed to "Technical Committee processes feedback and incorporates accepted comments into the unit module.
- There are important modifications in the unit module, and the second round of comments can be made. Figure 1 is modified accordingly.
- * The third column of 4.2.2 was changed to "the drafting team edited the unit module according to the standard drafting rules, and then saved it in the technology.
- In the database of the technical committee, it is used when drafting standards. Figure 1 is modified accordingly.
- * Paragraph 2 of 4.2.2 was changed to "Assign a number to each unit module (see 4.2.4)".
 - * 4.2.3 Amend to "Drafting the expected uniform terms as a stand-alone module in accordance with national standard rules and as a reference that can be cited National standards are published (for example, RCD terms and definitions).
 - * Paragraph 2 of 4.3.1 was amended to read "Subsequent review according to standard procedures" and Figure 2 was modified accordingly.
 - * 4.3.6 The title was changed to "Request for Comments and Review Process", and similar cases were found in paragraphs 2.3.6 and 4.4.4.

Also make corresponding modifications.

* Paragraph 1 of 4.3.6 was amended to read "Therefore, after completing the combination of standards, it is necessary to seek comments and submit them to the Technical Committee in accordance with the standard procedures.

The staff will review."

* The third sentence of 4.4.2 was amended to read "but the revised module cannot be deposited into the technical committee until the technical committee confirms the modification.

Will be in the database."

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 series covers the public standards available for use in combination with the Residual Current Appliance (RCD) standard or drafting RCD standards.

This part of GB/T 37751 applies to RCD standards drafted by means of independent modules and unit modules.

This section defines methods and procedures for drafting standards based on new approaches (hereafter referred to as independent modules and unit modules), with the aim of coordinating

Family standards to avoid errors, inconsistencies, or differences in family standards. The same family criteria considered in this section include without overcurrent protection.

Residual current operated circuit breaker (RCCB), residual current operated circuit breaker (RCBO) with overcurrent protection and residual current operated protective device

General safety requirements for (RCD) (ie GB/T 16916.1, GB/T 16917.1 and GB/T 6829).

This approach defines a way to optimize the drafting of standards, with the aim of maintaining a common or similar structure, using common terms whenever possible.

Avoid inconsistencies and do only one editorial work, thus speeding up the drafting of standards and ensuring that the opinions in one standard are also

Considered in the same family standard.

The principles of the stand-alone module and the unit module approach are.

- Determine the parts of the standard that need to be unified (or have limited differences) and the parts that should be kept different in the standard;
- Establish a technical committee database for the shared part;
- Identify the parts that need to be published as an independent standard;
- Use the technical committee database to draft product standards;
- Track the common parts of the product standard when revisions are needed in the future.

This section also lists the stand-alone modules and unit modules for drafting RCD product standards.

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.

GB/T 6829 General requirements for residual current operated protective devices (RCD) (GB/T 6829-2017, IEC /T R60755.

2008, MOD)

GB/T 16916.1 Residual current operated circuit breakers (RCCB) without overcurrent protection for household and similar purposes - Part 1.

General rules (GB/T 16916.1-2014, IEC 61008-1..2012, MOD)

GB/T 16917.1 Residual current operated circuit breakers (RCBO) with overcurrent protection for household and similar purposes - Part 1. 1

General rules (GB/T 16917.1-2014, IEC 61009-1.2012, MOD)

3 Terms and definitions

The following terms and definitions apply to this document.