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

GB/T 10963.3-2025

Replacing GB/T 10963.3-2016

**Electrical accessories - Circuit-breakers for overcurrent
protection for household and similar installations - Part 3:
Circuit-breakers for DC operation**

电气附件 家用及类似场所用过电流保护断路器 第3部分：用于直流的断路器
(English Translation)

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References

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 3 of GB/T 10963 "Electrical Accessories - Overcurrent Protection Circuit Breakers for Household and Similar Applications".

GB/T 10963 has published the following parts.

---Part 1: Circuit breakers for AC;

---Part 2: Circuit breakers for AC and DC;

---Part 3: Circuit breakers for DC applications.

This document replaces GB/T 10963.3-2016 "Overcurrent protection circuit breakers for household and similar applications - Part 3: DC".

Compared with GB/T 10963.3-2016, the main technical changes in "Circuit Breakers" are as follows, except for structural adjustments and editorial modifications.

---The rated voltage has been changed to not exceed 440V (see Chapter 1 and 5.3.1);

---The terminology and definition of critical current have been removed (see 3.2.15 in the 2016 edition);

---A new classification has been added for three-pole circuit breakers with two protective poles and one non-polarized protective M pole (see 4.2);

---Added mechanical and electrical life testing for three-pole circuit breakers with two protective poles and one non-polarized protective M pole.

Short-circuit verification (see 8.1.2, 9.11, and 9.12);

---Product categories and verification at ambient air temperatures of -25°C to 40°C have been removed (see 2016 version).

4.9, 8.6.3.2 (2016 version), and 9.10.4.2 (2016 version).

---The instantaneous tripping characteristic requirements have been changed (see 4.7, 5.3.4, and 9.10.3);

---The time constant category has been removed; time constant requirements are now specified separately in the test requirements (see sections 4.7, 9.10.3.1, and 2016 edition). (9.11.1 and 9.12.5).

This document is equivalent to IEC 60898-3:2022 "Electrical accessories for overcurrent protection circuit breakers in household and similar locations - Part 3." Circuit breakers for DC power.

The following minimal editorial changes have been made to this document.

---The incorrect citation "9.12.9.1" in the original text has been corrected to "9.12.9.2" (see 9.12.9.3);

---The incorrect citation "9.13.2.1" in the original text has been corrected to "9.13.2.2" (see 9.13.2.1);

---The incorrect reference "9.10.2" in Appendix B, Table B.4, Note a is corrected to "9.10.3" (see Appendix B, Table B.4);

---The incorrect reference "9.5.1" in Appendix J Table J.3 Note b is corrected to "9.5.2" (see Appendix J Table J.3).

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Electrical Equipment Industry Association.

This document is under the jurisdiction of the National Technical Committee on Standardization of Low Voltage Electrical Appliances (SAC/TC189).