

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations –
Part 2: Circuit-breakers for AC and DC operation**

**Petit appareillage – Disjoncteurs pour la protection contre les surintensités pour installations domestiques et analogues –
Partie 2: Disjoncteurs pour le fonctionnement en courant alternatif et en courant continu**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICAL ACCESSORIES –
CIRCUIT-BREAKERS FOR OVERCURRENT PROTECTION
FOR HOUSEHOLD AND SIMILAR INSTALLATIONS –****Part 2: Circuit-breakers for AC and DC operation**

FOREWORD

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International Standard IEC 60898-2 has been prepared by subcommittee 23E: Circuit-breakers and similar equipment for household use, of IEC technical committee 23: Electrical accessories.

This second edition cancels and replaces the first edition published in 2000 and Amendment 1:2003. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) alignment with second edition of IEC 60898-1;
- b) introduction of test I_{cn1} .

The text of this standard is based on the following documents:

FDIS	Report on voting
23E/951A/FDIS	23E/976/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 60898 series, published under the general title *Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations*, can be found on the IEC website.

This Part 2 is to be used in conjunction with IEC 60898-1.

Where a particular subclause of Part 1 is not mentioned in this Part 2, that subclause applies as far as is reasonable. Where this Part 2 states “addition”, “deletion” or “replacement”, the corresponding requirement, test specification or explanatory material in Part 1 should be adapted accordingly.

In this standard, the following print types are used:

- Requirements proper: in roman type.
- *Test specifications: in italic type.*
- Explanatory matter: in smaller roman type.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

ELECTRICAL ACCESSORIES – CIRCUIT-BREAKERS FOR OVERCURRENT PROTECTION FOR HOUSEHOLD AND SIMILAR INSTALLATIONS –

Part 2: Circuit-breakers for AC and DC operation

1 Scope

Clause 1 of IEC 60898-1:2015 is applicable except as follows:

Addition at the end of the first paragraph:

This standard gives additional requirements for single- and two-pole circuit-breakers which, in addition to the above characteristics, are suitable for operation with direct current, and have a rated DC voltage not exceeding 220 V for single-pole and 440 V for two-pole circuit-breakers, a rated current not exceeding 125 A and a rated DC short-circuit capacity not exceeding 10 000 A.

NOTE This standard applies to circuit-breakers able to make and break both alternating current and direct current.

Delete the last two paragraphs.

2 Normative references

Clause 2 of IEC 60898-1:2015 is applicable except as follows:

Addition:

IEC 60898-1:2015, *Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations – Part 1: Circuit-breakers for a.c. operation*

3 Terms and definitions

Clause 3 of IEC 60898-1:2015 is applicable except as follows:

Addition:

3.5.10.3 time constant

T

rise time of a prospective direct current to reach a value of 0,63 times the maximum peak current

$$T = L/R \text{ (ms)}$$

4 Classification

Clause 4 of IEC 60898-1:2015 is applicable except as follows: