



SLOVENSKI STANDARD
SIST EN 60898:1995/A14:1997
01-november-1997

**Circuit-breakers for overcurrent protection for household and similar installations
- Amendment A14**

Circuit-breakers for overcurrent protection for household and similar installations

Leitungsschutzschalter für den Haushalt und ähnliche Anwendungen

Disjoncteurs pour installations domestiques et analogues pour la protection contre les
surintensités

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Ta slovenski standard je istoveten z: EN 60898:1991/A14:1995

SIST EN 60898:1995/A14:1997
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ICS:

29.120.50 Xæ[çæ\ ^Á Ái\ * æ Fuses and other overcurrent
 { ^âq \ [ç} æÁ æz äæ protection devices

SIST EN 60898:1995/A14:1997 **en**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60898/A14

August 1995

UDC 621.316.57:64.06-83:614.8
ICS 29.120.40; 29.120.60

Descriptors: Electrical installation LT, household electrical equipment, overcurrent circuit-breaker, characteristic, construction, test

English version

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Disjoncteurs pour installations
domestiques et analogues pour la
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This amendment A14 modifies the European Standard EN 60898:1991; it was approved by CENELEC on 1995-07-04. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 23E(CO)140, future amendment to IEC 898:1987, prepared by SC 23E, Circuit-breakers and similar equipment for household use, of IEC TC 23, Electrical accessories, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A14 to EN 60898:1991 on 1995-07-04.

NOTE: The text of document 23E(CO)140 has been included in IEC 898:1995.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1996-08-15
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 1996-08-15

For products which have complied with EN 60898:1991 + A11:1994 + A12:1995 before 1996-08-15, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2001-08-15.

NOTE: The page numbers refer to the English text of IEC 898:1987.

Page 7

1.1 **Scope** <https://standards.iteh.ai/catalog/standards/sist/3eacc15c-8031-457d-b0f1-865ec945715e/sist-en-60898-1995-a14-1997>

Delete, in the last but one paragraph: "of the plug-in and".

Page 9

2 Definitions

Add the following new definition:

2.1.5 Plug-in circuit-breaker

Circuit-breaker having one or more plug-in terminals (see 2.3.20) and designed for use with appropriate means for the plug-in connection.

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Insert the following new subclause 2.3.20:

2.3.20 Plug-in terminal

A terminal the electrical connection and disconnection of which can be effected without displacing the conductors of the corresponding circuit.

The connection is effected without the use of a tool and is provided by the resilience of the fixed and/or moving parts and/or by springs.

Re-number the following subclauses to accommodate the new definition for plug-in terminal:

2.3.20 to 2.3.21 – Tapping screw

2.3.21 to 2.3.22 – Thread-forming tapping screw

2.3.22 to 2.3.23 – Thread-cutting tapping screw

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3 Classification

Replace the existing subclause 3.4 by the following:

3.4 *According to the method of electrical connection:*

- circuit-breakers the electrical connections of which are not associated with the mechanical mounting;
- circuit-breakers the electrical connections of which are associated with the mechanical mounting.

NOTE – Examples of this type are:

- plug-in type;
- bolt-on type;
- screw-in type.

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Some circuit-breakers may be of the plug-in type or bolt-on type on the line side only, the load terminals being usually designed for wiring connection.

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7 Requirements for construction and operation

7.1 Mechanical design

Add, on page 49, the following new subclause:

7.1.7 Mechanical mounting of plug-in circuit-breakers

7.1.7.1 Plug-in circuit-breakers, the holding in position of which does not depend solely on their plug-in connection(s).

7.1.7.2 Plug-in circuit-breakers, the holding in position of which depends solely on their plug-in connection(s)

Requirements for circuit-breakers of this type are under consideration.

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8 Tests

8.4 Test of reliability of screws, current-carrying parts and connections

Add, at the end of this subclause, the following text:

Plug-in connections are tested by plugging the circuit-breaker in and pulling it out five times.

After the test the connections shall not have become loose nor shall their electrical function be impaired.

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8.13.1 Mechanical shock

Introduce the following explanation after the title:

NOTE – The mechanical shock test is intended to test the latching means of the circuit-breaker, not its mounting means.

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8.13.2 Mechanical impact

Replace this subclause by the following:
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Compliance is checked on those exposed parts of the circuit-breaker mounted as for normal use (see note to 7.1.6), which may be subjected to mechanical impact in normal use, by the test of 8.13.2.1 for all types of circuit-breakers and, in addition, by the tests of:

8.13.2.2 for screw-in circuit-breakers;

8.13.2.3 for circuit-breakers intended to be mounted on a rail and for plug-in circuit-breakers designed for surface mounting, the holding in position of which does not depend solely on their plug-in connection.

Circuit-breakers only designed for being totally enclosed are not submitted to this test.

8.13.2.1

Replace the sixth paragraph of page 101 by the following:

Plug-in circuit-breakers are mounted complete with the appropriate means for the plug-in connection, which means are fixed on the sheet of plywood for the surface-type, or in the device according to figure 13 for the flush-type or figure 14 for the panel-board-type, as applicable.

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8.13.2.3 *Add, after the first paragraph, the following sentence:*

Plug-in circuit-breakers designed for surface mounting are mounted complete with the appropriate means for the plug-in connection but without cables being connected and without any cover-plate.

8.13.2.4

Delete this subclause.

Page 117

Figure 13

Replace the title by:

Examples of mounting of a flush-type circuit-breaker for mechanical impact test

Modify item 4 of the legend as follows:

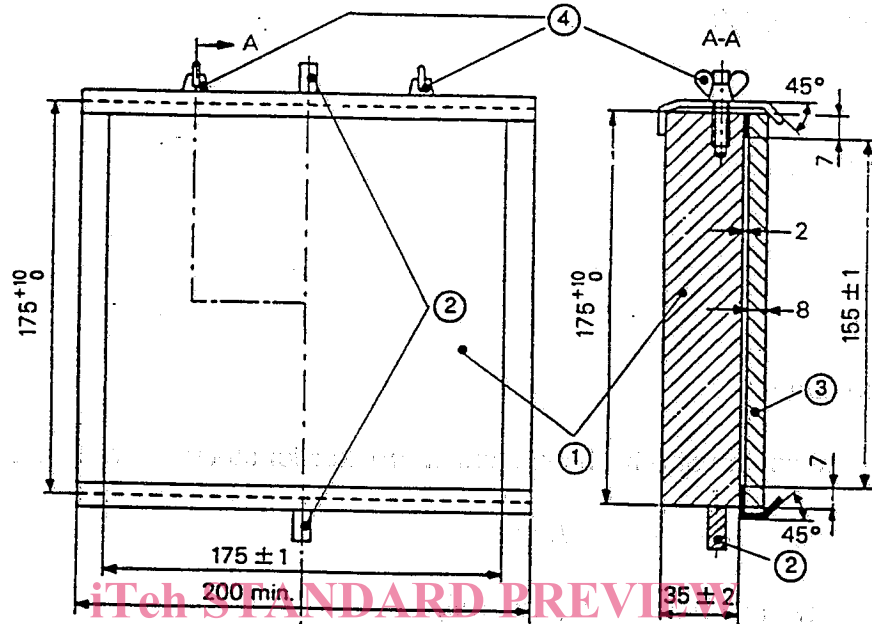
Mounting means, as appropriate (e.g., rail)

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Remplacer la figure 12 par la suivante:
Replace figure 12 by the following:



- | | |
|---|---|
| 1) Support principal de masse (10 + 1) kg | 1) Main support of mass (10 + 1) kg |
| 2) Pivots pour la rotation autour de l'axe vertical | 2) Pivots for rotation around a vertical axis |
| 3) Plaque de montage (en bois pour les types de montage en saillie, pour les autres types, voir figures 13 et 14) | 3) Mounting plate (of wood for surface-types; for the other types, see figures 13 and 14) |
| 4) Dispositif de serrage permettant le mouvement horizontal | 4) Clamps to permit horizontal movement |

Figure 12 – Support de montage pour l'échantillon, pour l'essai de choc mécanique
Mounting support for sample, for mechanical impact test