

Residual current-operated protective devices (RCDs) for household and similar use - Electromagnetic compatibility (IEC 61543:1995)

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ICS 29.020; 29.120.50

Descriptors: Home electrical installations, low voltage switchgear, differential devices, protection against electric shocks, electromagnetic compatibility, tests

English version

**Residual current-operated protective devices (RCDs)
for household and similar use
Electromagnetic compatibility
(IEC 1543:1995)**

Dispositifs différentiels résiduels (DDR)
pour usages domestiques et analogues
Compatibilité électromagnétique
(CEI 1543:1995)

Fehlerstromschutzeinrichtungen (RCDs)
für Hausinstallationen und ähnliche
Verwendung
Elektromagnetische Verträglichkeit
(IEC 1543:1995)

This European Standard 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 European Standard 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 European Standard 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.

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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/202/DIS, future edition 1 of IEC 1543, 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 EN 61543 on 1995-07-04.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 1996-04-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 1996-04-01

For products which have complied with the relevant national standard before 1996-04-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2001-04-01.

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 1543:1995 was approved by CENELEC as a European Standard without any modification.

The following editorial corrections are to be made in the English text of IEC 1543:1995:

In Table 5, replace "IEC 801-4" by "IEC 1000-4-4".

In Table 6 replace "IEC 801-2" by "IEC 1000-4-2".

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Annex ZA (normative)

**Normative references to international publications
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE: When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 1000-2-2 (mod)	1990	Electromagnetic compatibility (EMC) Part 2: Environment Section 2: Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems	ENV 61000-2-2	1993
IEC 1000-4-1	1992	Part 4: Testing and measurement techniques - Section 1: Overview of immunity tests	EN 61000-4-1	1994
IEC 1000-4-2	1995	Section 2: Electrostatic discharge immunity test	EN 61000-4-2	1995
IEC 1000-4-4	1995	Section 4: Electrical fast transient/burst immunity test	EN 61000-4-4	1995
IEC 1008-1 (mod)	1990	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's) Part 1: General rules	EN 61008-1	1994
+ A1	1992		+ corr. September 1994	1994
IEC 1009-1 (mod)	1991	Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBO's) Part 1: General rules	EN 61009-1 + corr. September 1994	1994
CISPR 14	1993	Limits and methods of measurement of radio disturbance characteristics of electrical motor-operated and thermal appliances for household and similar purposes, electric tools and similar electric apparatus	EN 55014	1993

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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC
1543

Première édition
First edition
1995-04

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
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For price, see current catalogue

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**RESIDUAL CURRENT-OPERATED PROTECTIVE
DEVICES (RCDs) FOR HOUSEHOLD AND SIMILAR USE –
ELECTROMAGNETIC COMPATIBILITY**

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international cooperation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters, prepared by technical committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 3) They have the form of recommendations for international use published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.

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International Standard IEC 1543 has been prepared by sub-committee 23E: Circuit-breakers and similar equipment for household use, of IEC technical committee 23: Electrical accessories.

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

DIS	Report on voting
23E/202/DIS	23E/218/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.

INTRODUCTION

This International Standard includes definitions, standard electromagnetic conditions, conditions of operation in service and electromagnetic tests necessary for devices providing residual current protection.

It applies when required in a product standard and in conjunction with it, at present for:

- IEC 1008-series for RCCBs;
- IEC 1009-series for RCBOs.

It is intended to apply also for the same purpose, in conjunction with future IEC standards, for portable residual current devices without integral overcurrent protection for household and similar uses (PRCDs), to residual current devices without integral overcurrent protection incorporated in or to be associated with fixed socket-outlets (SRCDS) – now under consideration – and to other RCDs incorporating overcurrent protection.

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