

Residual current-operated protective devices (RCDs) for household and similar use — Electromagnetic compatibility

The European Standard EN 61543:1995, with the incorporation of amendments A11:2003, A12:2005 and A2:2006, has the status of a British Standard

ICS 29.020; 29.120.50

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee PEL/23, Circuit breakers and similar equipment for household use, upon which the following bodies were represented:

- Association of Consulting Engineers
- Association of Control Manufacturers — TACMA (BEAMA Ltd.)
- ASTA Certification Services
- British Lawnmower Manufacturers' Federation
- Consumer Policy Committee of BSI
- Consumers' Association
- Department of Trade and Industry (Consumer Safety Unit)
- Electrical Installation Equipment Manufacturers' Association (BEAMA Ltd.)
- Electricity Association
- ERA Technology Ltd.
- Federation of the Electronics Industry
- Institution of Electrical Engineers
- Institution of Mechanical Engineers
- National Inspection Council for Electrical Installation Contracting
- National Quality Assurance
- Portable Electric Tool Manufacturers' Association

This British Standard, having been prepared under the direction of the Electrotechnical Sector Board, was published under the authority of the Standards Board and comes into effect on 15 January 1996
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Amendments issued since publication

Amd. No.	Date	Comments
14834	2 December 2003	See national foreword
15842	28 April 2006	See national foreword
16402	31 July 2006	See national foreword

The following BSI references relate to the work on this standard:
Committee reference PEL/23
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National foreword

This British Standard has been prepared by Technical Committee PEL/23 and is the English language version of EN 61543:1995 *Residual current-operated protective devices (RCDs) for household and similar use — Electromagnetic compatibility*, including amendments A11:2003, A12:2005 and A2:2006, published by the European Committee for Electrotechnical Standardization (CENELEC). It is identical with IEC 61543:1995 published by the International Electrotechnical Commission (IEC).

The start and finish of text introduced or altered by amendment is indicated in the text by tags **A1** **A1**. Tags indicating changes to IEC text carry the number of the amendment. For example, text altered by IEC amendment 1 is indicated by **A1** **A1**.

The CENELEC common modifications have been implemented at the appropriate places in the text. The start and finish of each common modification is indicated in the text by tags **C** **C**. Where a common modification has been introduced by amendment, the tags carry the number of the amendment. For example, the common modifications introduced by CENELEC amendment A11 are indicated by **C11** **C11**.

The UK participation in its preparation was entrusted to Technical Committee PEL/23, Electrotechnical, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 13 and a back cover.

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English version

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

(IEC 61543:1995)

Dispositifs différentiels résiduels (DDR) pour usages domestiques et analogues —
Compatibilité électromagnétique

Fehlerstromschutzeinrichtungen (RCDs) für Hausinstallationen und ähnliche Verwendung — Elektromagnetische Verträglichkeit

This European Standard was approved by CENELEC on 1995-07-04. Amendment A11 was approved by CENELEC on 2003-06-01 and amendment A12 was approved by CENELEC on 2005-03-01. 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.

This amendment A12 modifies the European Standard EN 61543:1995; it was approved by CENELEC on 2005-03-01. 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 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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, 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/202/DIS, future edition 1 of IEC 1543, prepared by SC 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.

Foreword to amendment A11

The text of this document, prepared by the Technical Committee CENELEC TC 23E, Circuit breakers and similar devices for household and similar applications, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A11 to EN 61543:1995 on 2003-06-01.

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) 2004-03-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2007-03-01

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.

Foreword to amendment A12

This amendment, aiming to improve some high frequency test conditions in EN 61543:1995/A11:2003, has been prepared by the Technical Committee CENELEC TC 23E, Circuit breakers and similar devices for household and similar applications.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A12 to EN 61543:1995 on 2005-03-01.

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) 2006-03-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2008-03-01

Foreword to amendment A2

The text of document 23E/588/FDIS, future amendment 2 to IEC 61543:1995, 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 A2 to EN 61543:1995 on 2005-12-01.

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) 2006-09-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2008-12-01