



BSI Standards Publication

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

National foreword

This British Standard is the UK implementation of EN IEC 61543:2023+A11:2023. It is derived from IEC 61543:2022. It supersedes BS EN 61543:1996, which is withdrawn.

The start and finish of text introduced or altered by amendment A11 is indicated in the text by tags. Tags indicating changes to text carry the number of the CENELEC amendment. For example, text altered by CENELEC amendment A11 is indicated by A11 A11.

The UK participation in its preparation was entrusted to Technical Committee PEL/23/1, Circuit breakers and similar equipment for household use.

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

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Amendments/corrigenda issued since publication

Date	Text affected
31 July 2023	Implementation of CENELEC amendment A11:2023

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Supersedes EN 61543:1995; EN 61543:1995/corrigendum
Dec. 1997; EN 61543:1995/A11:2003; EN
61543:1995/A11:2003/corrigendum May 2004; EN
61543:1995/A12:2005; EN 61543:1995/A2:2006

English Version

Residual current-operated protective devices (RCDs) for
household and similar use - Electromagnetic compatibility
(IEC 61543:2022)

Dispositifs différentiels résiduels (DDR) pour usages
domestiques et analogues - Compatibilité
électromagnétique
(IEC 61543:2022)

Fehlerstromschutzeinrichtungen (RCDs) für
Hausinstallationen und ähnliche Verwendung -
Elektromagnetische Verträglichkeit
(IEC 61543:2022)

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of document 23E/1268/FDIS, future edition 2 of IEC 61543, 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 approved by CENELEC as EN IEC 61543:2023.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2024-04-19 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2026-04-19 document have to be withdrawn

This document supersedes EN 61543:1995 and all of its amendments and corrigenda (if any).

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This document has been prepared under a Standardization Request given to CENELEC by the European Commission and the European Free Trade Association.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 61543:2022 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 60364-4-44	NOTE Approved as HD 60364-4-444
IEC 61000-6-1:2016	NOTE Approved as EN IEC 61000-6-1:2019 (not modified)
IEC 61000-6-2:2016	NOTE Approved as EN IEC 61000-6-2:2019 (not modified)
IEC 61008 (series)	NOTE Approved as EN 61008 (series)
IEC 61009 (series)	NOTE Approved as EN 61009 (series)
IEC 61540	NOTE Approved as HD 639 S1
IEC 62423	NOTE Approved as EN 62423
IEC 62606	NOTE Approved as EN 62606
IEC 62640	NOTE Approved as HD 62640
IEC 62752	NOTE Approved as EN 62752
IEC 63024	NOTE Approved as EN 63024
IEC 63052	NOTE Approved as EN IEC 63052

European foreword to amendment A11

This document (EN IEC 61543:2023/A11:2023) has been prepared by CLC/TC 23E "Circuit breakers and similar devices for household and similar applications".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2024-04-19
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2026-04-19

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN / HD</u>	<u>Year</u>
IEC 61000-4-2	-	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	EN 61000-4-2	2009
IEC 61000-4-3	-	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	EN 61000-4-3	2020
IEC 61000-4-4	-	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	EN 61000-4-4	2013
IEC 61000-4-5 + MD1	2014 2017	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	EN 61000-4-5 + 1	2014 2017
IEC 61000-4-6	-	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio frequency fields	EN 61000-4-6	2014
IEC 61000-4-8	-	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	EN 61000-4-8	2010
IEC 61000-4-11	-	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase	EN 61000-4-11	2020
IEC 61000-4-16	2015	Electromagnetic compatibility (EMC) - Part 4-16: Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz	EN 61000-4-16	2016

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN / HD</u>	<u>Year</u>
IEC 61000-4-19	-	Electromagnetic compatibility (EMC) - Part 4-19: Testing and measurement techniques - Test for immunity to conducted, differential mode disturbances and signalling in the frequency range 2 kHz to 150 kHz at a.c. power ports	EN 61000-4-19	2014
CISPR 14-1	-	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	EN 55014-1	2021



INTERNATIONAL STANDARD

NORME INTERNATIONALE

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

Dispositifs différentiels résiduels (DDR) pour usages domestique et analogues – Compatibilité électromagnétique

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