

<b>STN</b>	<b>Prúdové chrániče bez vstavanej nadprúdovej ochrany pre domácnosť a na podobné použitie (RCCB). Časť 1: Všeobecné pravidlá. Zmena A1</b>	<b>STN EN 61008-1/A1</b>  35 4182
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Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCDc). Part 1: General rules

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 05/15

STN EN 61008-1 zo septembra 2013 sa bez zmeny A1 môže používať do 04. 08. 2017.

Obsahuje: EN 61008-1:2012/A1:2014, IEC 61008-1:2010/A1:2012

**120753**

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Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, odbor SÚTN, 2015  
Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

EUROPEAN STANDARD

**EN 61008-1:2012/A1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2014

ICS 29.120.50

English Version

Residual current operated circuit-breakers without integral  
overcurrent protection for household and similar uses (RCCBs) -  
Part 1: General rules  
(IEC 61008-1:2010/A1:2012 , modified)

Interrupteurs automatiques à courant différentiel résiduel  
sans dispositif de protection contre les surintensités  
incorporé pour usages domestiques et analogues (ID) -  
Partie 1: Règles générales  
(CEI 61008-1:2010/A1:2012 , modifiée)

Fehlerstrom-/Differenzstrom-Schutzschalter ohne  
eingebauten Überstromschutz (RCCBs) für  
Hausinstallationen und für ähnliche Anwendungen - Teil 1:  
Allgemeine Anforderungen  
(IEC 61008-1:2010/A1:2012 , modifiziert)

This amendment A1 modifies the European Standard EN 61008-1:2012; it was approved by CENELEC on 2014-08-04. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## Foreword

This document (EN 61008-1:2012/A1:2014) consists of the text of IEC 61008-1:2010/A1:2012 prepared by SC 23E "Circuit-breakers and similar equipment for household use" of IEC/TC 23 "Electrical accessories", together with the common modifications 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) 2015-08-04
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2017-08-04

Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 61008-1:2010/A1:2012 are prefixed "Z".

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

### Endorsement notice

The text of the International Standard IEC 61008-1:2010/A1:2012 was approved by CENELEC as a European Standard with agreed common modifications.

## Common modifications

Item	Clause	Common modifications
1.	1	<p><b>Replace</b></p> <p><i>“Delete Note 5 and replace it by the following paragraph and new Note 5”</i></p> <p>by</p> <p><i>“Replace the paragraph beginning by “For RCCBs incorporated...” by the following paragraph and add a new Note 5:”</i></p> <p><b>Delete</b> “the requirements of IEC 60884-1 or” in the new paragraph.</p> <p><b>Add</b> “for socket-outlets” between “national requirements” and “of the country”.</p>
2.	2	<b>Delete</b> the modifications to Clause 2.
3.	4.11	<p><b>Delete</b> the last dash and Note 3.</p> <p><b>Add</b> after common modifications on 4.11:</p> <p><i>“Delete subclause 4.Z1.</i></p> <p><i>Renumber subclause “4.Z2 According to the range of ambient air temperature” by “4.Z1 According to the range of ambient air temperature”.</i>”</p>
4.	Table 1	<b>Delete</b> the modification to Table 1.
5.	Table 3	<b>Delete</b> the modifications to Table 3.
6.	6	<p><b>Replace</b></p> <p><i>“Replace the contents of item k) by the following:”</i></p> <p>by</p> <p><i>“Replace the contents of item k) in Table Z3 by the following:”</i></p>
7.	6	<p><b>Replace</b></p> <p><i>“Replace in the twelfth paragraph after Note 1, the word “circuit” by “conductor””</i></p> <p>by</p> <p><i>“Replace in the eleventh paragraph of 6.Z1, the word “circuit” by “conductor””</i></p>
8.	6	<p><b>Replace</b></p> <p><i>“Add the following text at the end of Clause 6:”</i></p> <p>by</p> <p><i>“Add the following text at the end of Clause 6.Z1:”</i></p>
9.	8.1.3	<b>Delete</b> “before 9.7.1” in the new Note 1.
10.	8.1.3 Table 5	<b>Delete</b> <i>“Delete, in this table, point 5 in the first column and the existing Note 3.”</i>
11.	8.1.4.4	<p><b>Replace</b></p> <p><i>“In the subclause, replace the existing text by the following:”</i></p> <p>by</p> <p><i>“In the subclause, replace the existing text <u>before the note</u> by the following:”</i></p>

Item	Clause	Common modifications												
12.	8.1.5.1	<p><b>Replace</b></p> <p><i>“Delete the second paragraph and the note in this subclause.”</i></p> <p>by</p> <p><i>“Insert a second paragraph:</i></p> <p>In this standard, only terminals for copper conductors are considered.”</p>												
13.	8.1.5.1	<p><b>Replace</b></p> <p>“Annex J, K or L”</p> <p>by</p> <p>“Annex J or K”</p>												
14.	8.1.5.2	<p><b>Replace</b></p> <p>“or terminals for external untreated aluminium conductors and with aluminium screw-type terminals for use with copper or with aluminium conductors according to Annex L.”</p> <p>by</p> <p>“VOID”</p>												
15.	8.1.5.2 Table 6	<b>Delete</b> “NOTE Information on AWG is given in Annex ID.”												
16.	9.1.1 Table 9	<p>After <i>“Delete, in this table, the dashed item “– Resistance of the insulation against an impulse voltage””, add a new paragraph:</i></p> <p><i>“Add, in this table, at the end of the existing list, in the second column, the following subclause corresponding to “Behaviour at low ambient air temperatures of RCCBs classified for use in the range of –25 °C to +40 °C”:</i></p> <p>9.Z1”</p>												
17.	9.5.1	<b>Delete</b> “NOTE Information on AWG is given in Annex ID.”												
18.	9.7.7.2	<b>Delete</b> twice “(or path)”												
19.	9.7.7.4.1 Table 22	<p><b>Delete</b> the two following rows:</p> <table border="1" data-bbox="448 1397 1437 1621"> <tbody> <tr> <td>Single-phase system with mid-point earthed 120/240 <sup>a)</sup></td> <td>3,5</td> <td>3,5</td> <td>3,4</td> <td>3,2</td> <td>3,0</td> </tr> <tr> <td>Single phase system 120/240 240 <sup>b)</sup></td> <td>6,2</td> <td>6,0</td> <td>5,8</td> <td>5,6</td> <td>5,0</td> </tr> </tbody> </table> <p><b>Replace</b></p> <p>“Three-phase systems 230/400”</p> <p>by</p> <p>“Single-phase systems 230 or 400 Three-phase systems 400 or 230/400”</p> <p><b>Delete</b> the two footnotes <sup>a)</sup> and <sup>b)</sup>.</p>	Single-phase system with mid-point earthed 120/240 <sup>a)</sup>	3,5	3,5	3,4	3,2	3,0	Single phase system 120/240 240 <sup>b)</sup>	6,2	6,0	5,8	5,6	5,0
Single-phase system with mid-point earthed 120/240 <sup>a)</sup>	3,5	3,5	3,4	3,2	3,0									
Single phase system 120/240 240 <sup>b)</sup>	6,2	6,0	5,8	5,6	5,0									
20.	9.7.7.4.3	<b>Delete</b> twice “(or path)”												

Item	Clause	Common modifications
21.	9.7.7.5	In the paragraph after Note 1, <b>replace</b> "50 Hz/60 Hz" by "50 Hz"
22.	9.7.7.5	<b>Delete</b> "(or path)" in the first dashed item.
23.	9.7.7.5	<b>Replace</b> the last sentence of the paragraph after Note 4 by "One test only is made, on one pole taken at random, with measurement of break time: the latter shall not exceed the value specified in Table 1 at $I_{\Delta n}$ ."
24.	9.7.7.5	<b>Delete</b> the last paragraph "This test is not applied to devices with solid neutral."
25.	9.11.2.1 a)	In the first modification, <b>replace</b> "Figures 8, 9, 10, 11 and 12" by "Figures 7 and 12"
26.	9.11.2.1 a)	<b>Delete</b> the modification " <i>Replace, in the existing eighth paragraph of item a), the words "The additional impedance <math>Z_3</math>" by "The additional impedance <math>Z_1</math>".</i> "
27.	9.11.2.1 a)	<b>Delete</b> the modification " <i>Replace, in the fifth paragraph after the existing Note 3, the words "resistor <math>R_1</math>" by "resistor <math>R_2</math>".</i> "
28.	9.11.2.1 e)	<b>Replace</b> <i>"Replace, in the second paragraph of item e), the words "the current sensor <math>O_1</math>" by "the current sensor"."</i> by <i>"Replace, in the second paragraph of item e), the words "the current sensor <math>I_1, I_2, I_3, I_4</math>" by "the current sensor"."</i>
29.	9.11.2.1 e)	<b>Delete</b> the modification " <i>Replace, in the third paragraph of item e), the word "<math>Z_3</math>" by "<math>Z_1</math>".</i> "
30.	9.11.2.3	<b>Replace</b> in the last modification "fifth paragraph" by "fourth paragraph"
31.	9.14	<b>Replace</b> "From the fifth to the ninth paragraph" by "From the sixth to the tenth paragraph".
32.	9.19.1	<b>Delete</b> the modification to 9.19.1.
33.	9.25	<b>Replace</b> <i>"Add before Figure 1 the following new subclause:"</i> by <i>"Add before 9.Z1 the following new subclause:"</i>

Item	Clause	Common modifications												
34.	Before Figure 7	In the first line of the modification, <b>replace</b> “to 12” by “and 12”												
35.	Figure 8	<b>Replace</b> “Figure 8 – Test circuit for the verification of the rated making and breaking capacity and of the coordination with a SCPD of a single-pole RCCB with two current paths (9.11) <i>Replace Figure 8 by the following:</i> ” by “Figure 8 – Void <i>Reintroduce Figure 8 as follows:</i> ”												
36.	Figure 9	<b>Replace</b> “Figure 9 – Test circuit for the verification of the rated making and breaking capacity and of the coordination with a SCPD of a two-pole RCCB, in case of a single-phase circuit (9.11) <i>Replace Figure 9 by the following:</i> ” by “Figure 9 – Void <i>Reintroduce Figure 9 as follows:</i> ”												
37.	Annex A Table A.1	<b>Replace</b> the test sequence G of the new Table A.1 by <table border="1" data-bbox="432 1122 1163 1310"> <tr> <td>G<sub>0</sub></td> <td>9.22.1</td> <td>Reliability (climatic tests)</td> </tr> <tr> <td>G<sub>1</sub></td> <td>9.Z1</td> <td>Verification of correct operation at low ambient air temperature of RCCBs operating at temperatures between -25 °C and + 40 °C</td> </tr> </table>	G <sub>0</sub>	9.22.1	Reliability (climatic tests)	G <sub>1</sub>	9.Z1	Verification of correct operation at low ambient air temperature of RCCBs operating at temperatures between -25 °C and + 40 °C						
G <sub>0</sub>	9.22.1	Reliability (climatic tests)												
G <sub>1</sub>	9.Z1	Verification of correct operation at low ambient air temperature of RCCBs operating at temperatures between -25 °C and + 40 °C												
38.	Annex A Table A.2	<b>Replace</b> “ <i>In Table A.2, replace A by A<sub>1</sub>.</i> ” “ <i>In Table A.2, add a new row after the new A<sub>1</sub> containing the following:</i> ” <table border="1" data-bbox="432 1473 1163 1523"> <tr> <td>A<sub>2</sub></td> <td>3</td> <td>2</td> <td>3</td> </tr> </table> ” by “ <i>In Table A.2, replace A by the following:</i> ” <table border="1" data-bbox="432 1664 1163 1765"> <tr> <td>A<sub>1</sub></td> <td>1</td> <td>1</td> <td>-</td> </tr> <tr> <td>A<sub>2</sub></td> <td>3</td> <td>2</td> <td>3</td> </tr> </table> “ <i>and delete footnote <sup>f</sup></i> ”	A <sub>2</sub>	3	2	3	A <sub>1</sub>	1	1	-	A <sub>2</sub>	3	2	3
A <sub>2</sub>	3	2	3											
A <sub>1</sub>	1	1	-											
A <sub>2</sub>	3	2	3											
39.	Annex J	<b>Replace</b> “ <i>Add the following new Annex J:</i> ” by “ <i>Replace Annex J by the following:</i> ”												



Item	Clause	Common modifications																																								
40.	Annex J J.1	In the first paragraph, <b>replace</b> “with screwless terminals” by “with universal screwless terminals”																																								
41.	Annex J J.1	<b>Replace</b> Note 1 by “NOTE 1 Non-universal terminals are subject to special national conditions.”																																								
42.	Annex J J.3.3	<b>Delete</b> Note 1 to entry in Definition J.3.3.																																								
43.	Annex J J.6	<b>Replace</b> “Non-universal terminals:” by “Non-universal terminals (if accepted by Special National Conditions):”																																								
44.	Annex J J.8.2 Table J.1	<b>Replace</b> Table J.1 by  <b>Table J.1 – Connectable conductors</b>  <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="5">Connectable conductors and their theoretical diameter</th> </tr> <tr> <th colspan="3">Rigid</th> <th colspan="2">Flexible</th> </tr> <tr> <th></th> <th>Solid</th> <th>Stranded</th> <th colspan="2"></th> </tr> <tr> <th>mm<sup>2</sup></th> <th>∅ mm</th> <th>∅ mm</th> <th>mm<sup>2</sup></th> <th>∅ mm</th> </tr> </thead> <tbody> <tr> <td>1,0</td> <td>1,2</td> <td>1,4</td> <td>1,0</td> <td>1,5</td> </tr> <tr> <td>1,5</td> <td>1,5</td> <td>1,7</td> <td>1,5</td> <td>1,8</td> </tr> <tr> <td>2,5</td> <td>1,9</td> <td>2,2</td> <td>2,5</td> <td>2,3</td> </tr> <tr> <td>4,0</td> <td>2,4</td> <td>2,7</td> <td>4,0</td> <td>2,9</td> </tr> </tbody> </table> NOTE Diameters of the largest rigid and flexible conductors are based on Table C.1 of IEC 60228:2004.	Connectable conductors and their theoretical diameter					Rigid			Flexible			Solid	Stranded			mm <sup>2</sup>	∅ mm	∅ mm	mm <sup>2</sup>	∅ mm	1,0	1,2	1,4	1,0	1,5	1,5	1,5	1,7	1,5	1,8	2,5	1,9	2,2	2,5	2,3	4,0	2,4	2,7	4,0	2,9
Connectable conductors and their theoretical diameter																																										
Rigid			Flexible																																							
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mm <sup>2</sup>	∅ mm	∅ mm	mm <sup>2</sup>	∅ mm																																						
1,0	1,2	1,4	1,0	1,5																																						
1,5	1,5	1,7	1,5	1,8																																						
2,5	1,9	2,2	2,5	2,3																																						
4,0	2,4	2,7	4,0	2,9																																						
45.	Annex J J.10	<b>Delete</b> the last four references (ASTM B172-01a, ICEA S-19-81 / NEMA WC3, ICEA S-66-524 / NEMA WC7 and ICEA S-68-516 / NEMA WC8).																																								
46.	Annex K K.1	<b>Delete</b> Note 1.																																								
47.	Annex K K.1	At the end of the second paragraph, <b>delete</b> “(AWG equal to or greater than 12).”																																								
48.	Annex K K.8.2.2	<b>Delete</b> Note 1.																																								
49.	Annex L	<b>Delete</b> Annex L.																																								

Item	Clause	Common modifications																																													
50.	Annex ZA	<p><b>Add</b> the following new modifications:</p> <p><b>"Annex ZA (normative) Normative references to international publications with their corresponding European publications</b></p> <p><i>Delete the reference to IEC 60051.</i></p> <p><i>Add the following new references to the existing list:</i></p> <table border="1" data-bbox="443 501 1417 741"> <thead> <tr> <th><u>Publication</u></th> <th><u>Year</u></th> <th><u>Title</u></th> <th><u>EN/HD</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>IEC 60228</td> <td>2004</td> <td>Conductors of insulated cables</td> <td>EN 60228 + corr. May</td> <td>2005 2005</td> </tr> <tr> <td>IEC 60664-3</td> <td>-</td> <td>Insulation coordination for equipment within low-voltage systems Part 3: Use of coating, potting or moulding for protection against pollution</td> <td>EN 60664-3</td> <td>-</td> </tr> </tbody> </table> <p><i>Replace the reference to IEC 61543 by the following:</i></p> <table border="1" data-bbox="443 808 1417 987"> <tbody> <tr> <td>IEC 61543</td> <td>1995</td> <td>Residual current-operated protective</td> <td>EN 61543</td> <td>1995</td> </tr> <tr> <td>-</td> <td>-</td> <td>devices (RCDs) for household and</td> <td>+ corr. December</td> <td>1997</td> </tr> <tr> <td>+ A1 (mod)</td> <td>2004</td> <td>similar use - Electromagnetic</td> <td>+ A11</td> <td>2003</td> </tr> <tr> <td>-</td> <td>-</td> <td>compatibility</td> <td>+ corr. May</td> <td>2004</td> </tr> <tr> <td>+ A2</td> <td>2005</td> <td></td> <td>+ A2</td> <td>2006</td> </tr> <tr> <td>-</td> <td>-</td> <td></td> <td>+ A12</td> <td>2005</td> </tr> </tbody> </table> <p>"</p>	<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>	IEC 60228	2004	Conductors of insulated cables	EN 60228 + corr. May	2005 2005	IEC 60664-3	-	Insulation coordination for equipment within low-voltage systems Part 3: Use of coating, potting or moulding for protection against pollution	EN 60664-3	-	IEC 61543	1995	Residual current-operated protective	EN 61543	1995	-	-	devices (RCDs) for household and	+ corr. December	1997	+ A1 (mod)	2004	similar use - Electromagnetic	+ A11	2003	-	-	compatibility	+ corr. May	2004	+ A2	2005		+ A2	2006	-	-		+ A12	2005
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-	-		+ A12	2005																																											
51.	Annex ZXX	<p><b>Add</b> a new modification</p> <p><b>Annex ZXX (informative) List of clauses that require retesting</b></p> <p><i>Replace the contents of Annex ZXX by:</i></p> <p>"Based on EN 61008-1:2012, the following tests and/or requirements have been technically modified and may require retesting or inspection as applicable:</p> <ul style="list-style-type: none"> <li>- 9.5 Test of reliability of screw-type terminals for external copper conductors</li> <li>- 9.7.7.5 Verification of the behaviour of components bridging the basic insulation</li> <li>- 9.14 Test of resistance to abnormal heat and to fire"</li> </ul>																																													
52.	Bibliography	<p><b>Replace</b></p> <p>"IEC 60664-5"</p> <p>by</p> <p>"EN 60664-5"</p> <p><b>Replace</b></p> <p>"IEC 60695-2-11:2000"</p> <p>by</p> <p>"EN 60695-2-11:2001"</p>																																													



# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

AMENDMENT 1  
AMENDEMENT 1

**Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Part 1: General rules**

**Interrupteurs automatiques à courant différentiel résiduel sans dispositif de protection contre les surintensités incorporé pour usages domestiques et analogues (ID) – Partie 1: Règles générales**





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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

AMENDMENT 1  
AMENDEMENT 1

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**Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) –  
Part 1: General rules**

**Interrupteurs automatiques à courant différentiel résiduel sans dispositif de protection contre les surintensités incorporé pour usages domestiques et analogues (ID) –  
Partie 1: Règles générales**

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## FOREWORD

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

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

FDIS	Report on voting
23E/740/FDIS	23E/744/RVD

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

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC web site 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.

## 1 Scope

*Delete Note 5 and replace it by the following paragraph and new Note 5:*

For RCCBs incorporated in, or intended only for association with socket-outlets, the requirements of this standard may be used, as far as applicable, in conjunction with the requirements of IEC 60884-1 or the national requirements of the country where the product is placed on the market.

NOTE 5 RCCBs incorporated in, or intended only for association with socket-outlets, can either meet IEC 62640 or this standard.

## 2 Normative references

*Delete the reference to IEC 60051.*

*Add to the existing list, the following new references:*

IEC 60228:2004, *Conductors of insulated cables*

IEC 60664-3, *Insulation coordination for equipment within low-voltage systems - Part 3: Use of coating, potting or moulding for protection against pollution*

*Replace the reference to IEC 61543:1995 by the following new reference:*

IEC 61543:1995, *Residual current-operated protective devices (RCDs) for household and similar use – Electromagnetic compatibility*  
 Amendment 1(2004) Amendment 2 (2005)

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**