
Odklopniki na preostali (residualni) tok z vgrajeno nadtokovno zaščito za gospodinjsko in podobno rabo (RCBO's) - 1. del: Splošna pravila

Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) - Part 1: General rules

Fehlerstrom-/Differenzstrom-Schutzschalter mit eingebautem Überstromschutz (RCBOs) für Hausinstallationen und für ähnliche Anwendungen - Teil 1: Allgemeine Anforderungen

(<https://standards.iteh.ai>)
Document Preview

Ta slovenski standard je istoveten z: prEN IEC 61009-1:2026/prAA:2026

oSIST prEN IEC 61009-1:2026/oprAA:2026

<https://standards.iteh.ai/catalog/standards/sist/b16592a2-1431-4662-a7ac-71936cc8a0fe/osist-pren-iec-61009-1-2026-opraa-2026>

ICS:

29.120.50

Varovalke in druga
nadtokovna zaščita

Fuses and other overcurrent
protection devices

**oSIST prEN IEC 61009-
1:2026/oprAA:2026**

en

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN IEC 61009-1:2026
prAA

January 2026

ICS 29.120.50

English Version

**Residual current operated circuit-breakers with integral
overcurrent protection for household and similar uses (RCBOs) -
Part 1: General rules**

To be completed

Fehlerstrom-/Differenzstrom-Schutzschalter mit
eingebautem Überstromschutz (RCBOs) für
Hausinstallationen und für ähnliche Anwendungen - Teil 1:
Allgemeine Anforderungen

This draft amendment prAA, if approved, will modify the European Standard prEN IEC 61009-1:2026; it is submitted to CENELEC members for enquiry.

Deadline for CENELEC: 2026-04-24.

It has been drawn up by CLC/TC 23E.

If this draft becomes an amendment, 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.

This draft amendment was established by CENELEC 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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

15	Contents		Page
16	European foreword		5
17	1	Modification to the Introduction	6
18	2	Modifications to Clause 1, “Scope”	6
19	3	Modification to Clause 2, “Normative references”	6
20	4	Modifications to Clause 3, “Terms and definitions”	6
21	5	Modification to 4.1.2, “RCBO with 2 or 4 current paths operating correctly on the occurrence of residual current within the voltage range of 1,1 U_e and 85 V”	6
22			
23	6	Modification to 4.2, “According to the possibility of adjusting the residual operating current”	7
24			
25	7	Deletion of 4.8.4, “RCBO with screw-type terminals for aluminium conductors”	7
26	8	Modifications to 4.9, “According to the number of poles and current paths”	7
27	9	Modification to 4.11, “According to the I^2t characteristic”	7
28	10	Addition of 4.Z1, “According to the range of ambient air temperature”	7
29	11	Modification to 5.1, “Summary of characteristics”	7
30	12	Modification to 5.2.1.3, “Rated impulse withstand voltage (U_{imp})”	7
31	13	Modification to 5.2.5, “Rated residual operating current ($I_{\Delta n}$)”	7
32	14	Modification to 5.3.3, “Standard values of rated residual operating current ($I_{\Delta n}$)”	7
33	15	Modification to 5.3.6, “Standard values of rated impulse withstand voltage (U_{imp})”	7
34	16	Modifications to 5.3.7.1, “Standard limit values of break time and non-actuating time for alternating residual currents (RMS values) of type AC and A”	8
35			
36	17	Modification to 5.3.11, “Minimum value of the rated residual making and breaking capacity ($I_{\Delta m}$)”	8
37			
38	18	Modification to 5.3.14, “Values of rated short-circuit capacity”	8
39	19	Addition of 5.3.Z1, “Standard ranges of ambient air temperature”	8
40	20	Modification to Clause 6, “Marking and other product information”	8
41	21	Modifications to 8.1.1, “General”	9
42	22	Modification to 8.1.2, “Mechanism”	9
43	23	Modification to 8.1.5, “Terminals for external conductors”	9
44	24	Addition of 8.1.Z1, “Mechanical mounting of plug-in RCBOs”	9
45	25	Addition of 8.5.4.Z1, “Effect of single-phase loading of multi-pole RCBO on the tripping characteristic”	9
46			
47	26	Modifications to 8.11, “Test device”	10
48	27	Addition of 8.Z1, “Behaviour of RCBOs at low ambient air temperatures”	10
49	28	Modification to 9.1, “General”	10
50	29	Modification to 9.2, “Test conditions”	10
51	30	Modification to 9.4, “Test of reliability of screws, current-carrying parts and connections”	10

52	31	Modification to 9.5, “Test of reliability of screw-type terminals for external copper conductors”	10
53			
54	32	Modification to 9.7.7.2, “Verification of clearances with the impulse withstand voltage”	10
55	33	Modification to 9.7.7.3, “Verification of resistance of the insulation of open contacts against an impulse voltage (suitability for isolation)”	10
56			
57	34	Modification to 9.8.2, “Test procedure”	11
58	35	Addition of 9.9.2.Z1, “Test of effect of single-phase loading on the over-current tripping characteristic of RCBO with three or four current paths”	11
59			
60	36	Modification to 9.10.2, “Test procedure”	11
61	37	Modification to 9.10.3, “Condition of the RCBO after test”	11
62	38	Modification to 9.11.1, “General conditions for test”	11
63	39	Modification to 9.11.2, “Test circuit for short-circuit performance”	11
64	40	Modification to 9.11.3, “Values of test quantities”	11
65	41	Modification to 9.11.4, “Tolerances on test quantities”	12
66	42	Modification to 9.11.9.1, “General”	12
67	43	Modification to 9.11.9.2, “Test in free air”	12
68	44	Modification to 9.11.11.2.1 “Tests on all RCBOs”	12
69	45	Modification to 9.11.11.2.2, “Short-circuit test on RCBOs for verifying their suitability for use in IT systems”	12
70			
71	46	Modification to 9.11.11.3, “Test at 1 500 A”	12
72	47	Modification to 9.11.11.4, “Test above 1 500 A”	12
73	48	Modification to 9.11.12.2, “Verification of the RCBO after short-circuit test”	13
74	49	Deletion of 9.11.13, “Verification of the rated residual making and breaking capacity ($I_{\Delta m}$)”	13
75	50	Modification to 9.12.2.1, “General”	13
76	51	Modification to 9.12.2.3, “Test for RCBOs intended to be mounted on a rail”	14
77	52	Addition of 9.12.2.4, “Test for plug-in RCBOs”	14
78	53	Modification to 9.13.1, “Test on complete RCBOs”	14
79	54	Modification to 9.16, “Verification of the operation of the test device at the limits of rated operational voltage”	14
80			
81	55	Modification to 9.20.1.3, “Test procedure”	14
82	56	Modification to 9.20.1.5, “Final verification”	14
83	57	Modifications to 9.20.2, “Test with temperature of 40 °C”	15
84	58	Modifications to 9.21, “Verification of withstand against ageing”	15
85	59	Modification to 9.24.3, “Additional tests for RCBOs with a terminal intended to be connected to the PE”	15
86			
87	60	Modifications to Table 1, “Marking”	15
88	61	Modifications to Table 11, “Standard limit values of break time and non-actuating time for alternating residual currents (RMS values) for type AC and A”	16
89			
90	62	Modification to Table 19, “Rated impulse withstand voltage as a function of the nominal voltage of the installation”	16
91			
92	63	Modifications to Table 23, “Test voltage for verifying the suitability for isolation, with reference to the rated impulse withstand voltage of the RCBO and the altitude where the test is carried out”	16
93			
94			