



SLOVENSKI STANDARD
SIST EN 50110-1:2023/oprA1:2026
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Obratovanje električnih postrojev - 1. del: Splošne zahteve - Dopolnilo A1

Operation of electrical installations - Part 1: General requirements

Betrieb von elektrischen Anlagen - Teil 1: Allgemeine Anforderungen

Exploitation des installations électriques - Partie 1: Exigences générales

Ta slovenski standard je istoveten z: EN 50110-1:2023/prA1:2026

ICS:

29.240.01	Omrežja za prenos in distribucijo električne energije na splošno	Power transmission and distribution networks in general
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SIST EN 50110-1:2023/oprA1:2026 **en**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
EN 50110-1:2023

prA1

February 2026

ICS 29.240.01

English Version

Operation of electrical installations - Part 1: General requirements

Exploitation des installations électriques - Partie 1:
Exigences générales

Betrieb von elektrischen Anlagen - Teil 1: Allgemeine
Anforderungen

This draft amendment prA1, if approved, will modify the European Standard EN 50110-1:2023; it is submitted to CENELEC members for enquiry.

Deadline for CENELEC: 2026-05-08.

It has been drawn up by CLC/BTTF 62-3.

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.

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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.

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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

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EN 50110-1:2023/prA1:202630 **European foreword**

31 This document (EN 50110-1:2023/prA1:2026) has been prepared by CLC/BTTF 62-3 “Operation of
32 electrical installations”.

33 The following dates are proposed:

- latest date by which the existence of this document has to be announced at national level (doa) dav + 6 months
- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) dav + 12 months
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) dav + 36 months (to be confirmed or modified when voting)

34 This document amends EN 50110-1:2023 on the following items:

- 35 — adding a new standard in Clause 2 – Normative references;
- 36 — improvement of some definitions in Clause 3 – Terms and definitions;
- 37 — editorial improvements and corrections of some parts of the Text in Clause 4 – Basic principles and
38 Clause 6 – Working procedures;
- 39 — corrections of some parts of the Text in Annex A – Guidance for distances in air for
40 working procedures;
- 41 — improvement of some parts of the Text in Annex B – Additional information for safe working;
- 42 — improvement of the Text in B.6 – Arc hazard;
- 43 — corrections of some parts of the Text in C.2 – French and C.3 – German;
- 44 — update of the Clause “Bibliography”.

45 **1 Modification to 3.2 “Personnel, organization and communication”**

46 *Replace term and definition 3.2.6 with the following:*

47 **“3.2.6**

48 **instructed person**, <electricity>

49 person adequately advised by a *skilled person* to enable them to understand the risks as instructed and to
50 avoid hazards which electricity can create

51 [SOURCE: IEC 60050-651:2014, 651-26-12 modified, the term “supervised” was deleted, “electrically” was
52 deleted “danger” was replaced by “hazard”, “perceive” was replaced by “understand” and added “as
53 instructed”]

54 **2 Modification to 3.6 “Voltages”**

55 *Replace term and definition 3.6.1 with the following:*

56 **“3.6.1**

57 **extra-low voltage**

58 **ELV**

59 nominal voltage not exceeding 50 V alternating current AC or 120 V ripple free direct current DC whether
60 between conductors or to earth

61 Note 1 to entry: This definition includes SELV, PELV and FELV (see HD 60364-4–41).”

62 *Replace term and definition 3.6.2 with the following:*

63 **“3.6.2**

64 **low voltage**

65 **L_V**

66 nominal voltage not exceeding 1 000 V AC or 1 500 V DC”

67 *Replace term and definition 3.6.3 with the following:*

68 **“3.6.3**

69 **high voltage**

70 **H_V**

71 nominal voltage exceeding 1 kV AC or 1,5 kV DC”

72 **3 Modification to 3.7 “Distances”**

73 *Replace term and definition 3.7.1 with the following:*

74 **“3.7.1**

75 **live working limit distance**

76 **D_L**

77 distance in air defining the outer limit of the live working zone”

78 *Replace term and definition 3.7.2 with the following:*

79 **“3.7.2**

80 **vicinity limit distance**

81 **D_V**

82 distance in air defining the outer limit of the vicinity zone”

83 *Replace term and definition 3.7.3 with the following:*

84 **“3.7.3**

85 **minimum approach distance for live working**

86 **D_A**

87 minimum distance in air for live working to be maintained between any part of the body of a worker (**W**),
88 including any object (except tools appropriate for live working) being handled directly, and any part(s) at
89 different electric potential(s)

90 Note 1 to entry: The minimum approach distance for live working is the sum of the electrical distance D_U appropriate
91 for the maximum nominal voltage and of the selected ergonomic distance D_E .

92 [SOURCE: IEC 60050-651: 2014, 651-21-11 modified by adding: for live working”]

93 *Replace term and definition 3.7.4 with the following:*

94 **“3.7.4**

95 **minimum working distance**

96 **D_W**

97 minimum distance in air (including tools, objects and equipment) to be maintained between any part of the
98 body of a worker and bare live parts during work activities within or outside the vicinity zone

99 Note 1 to entry: For minimum working distance for working within the vicinity zone the symbol is D_{WL} .

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100 Note 2 to entry: For minimum working distance for working outside the vicinity zone the symbol is D_{wv} .”

101 *Replace term and definition 3.7.7 with the following:*

3.7.7

103 **ergonomic distance**, <vicinity>

104 **E**

105 distance in air, to take account of normal and unintentional movements and errors in judgement of distances
106 during work activities within or outside the vicinity zone

107 Note 1 to entry: This distance is not fixed because it is necessary to make an evaluation for different situations of
108 work.”

4 Modification to 4.3.2, “The installation manager (IM)”

110 *Replace subclause 4.3.2 with the following:*

111 “The installation manager (**IM**) is in charge of the overall responsibility to ensure the safe operation of the
112 electrical installation by setting rules and organization or framework

113 The installation manager (**IM**) can be a natural person from the own organization or a third-party
114 *organization*. In the case of a person from another organization, it is recommended to document the
115 nomination, the part of the installation the person is responsible for and the timescale of nomination in
116 writing

117 *The* installation manager (**IM**) can delegate a part of their duties to other persons. This should be
118 documented

119 *Where* two or more electrical installations or organizations come together, it is essential that there are
120 formal arrangements for consultation and cooperation between the installation manager (**IM**) of each of
121 those installations or organizations to ensure safety

122 Access to all places where ordinary persons are exposed to electrical hazards shall be regulated. The
123 method of regulation and control of access shall be the responsibility of the installation manager (**IM**)

124 NOTE National requirements can apply to the method of regulation and control of access.”

5 Modification to 4.3.4, “The work controller (WC)”

126 *Replace subclause 4.3.4 with the following:*

127 “The work controller (**WC**) has the responsibility for the work activity

128 Where the work activity is subdivided, it may be necessary to nominate a person for each subdivision to be
129 responsible for the safety, all under the responsibility of the work controller (**WC**) as the coordinating person

130 The work controller (**WC**) and the operation controller (**OC**) shall agree both the arrangements of the
131 electrical system to allow the work to take place and a description of the work activity on, with or near the
132 electrical installation before any changes to the arrangements of the electrical installation are made or work
133 takes place.”

6 Modification to 4.4 “Communication (transmission of information)”

135 *Replace the 1st paragraph with the following:*

136 “This includes every way in which information is passed or exchanged between persons i.e. by spoken
137 word (including telephone, personal radio, and face to face), in writing (including, e.g. fax or e-mail), and
138 visually (including visual display units, warning panels, lights etc.).”

139 *Replace the last paragraph with the following:*

140 “In the case of personnel in a work location speaking different languages, to ensure understanding and
141 comprehensibility, the agreed language that relevant parties understand shall be granted in advance.”