



SLOVENSKI STANDARD
SIST EN 50160:2011/A3:2019

01-november-2019

Značilnosti napetosti v javnih razdelilnih omrežjih - Dopnilo A3

Voltage characteristics of electricity supplied by public electricity networks

Merkmale der Spannung in öffentlichen Elektrizitätsversorgungsnetzen

Caractéristiques de la tension fournie par les réseaux publics de distribution

Ta slovenski standard je istoveten z: **EN 50160:2010/A3:2019**

[SIST EN 50160:2011/A3:2019](https://standards.iteh.ai/catalog/standards/sist/36d428b5-b002-48a6-82c4-c48725073600/sist-en-50160-2011-a3-2019)

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ICS:

29.240.01	Omrežja za prenos in distribucijo električne energije na splošno	Power transmission and distribution networks in general
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en

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EUROPEAN STANDARD

EN 50160:2010/A3

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2019

ICS 29.020

English Version

Voltage characteristics of electricity supplied by public electricity networks

Caractéristiques de la tension fournie par les réseaux publics de distribution

Merkmale der Spannung in öffentlichen Elektrizitätsversorgungsnetzen

This amendment A3 modifies the European Standard EN 50160:2010; it was approved by CENELEC on 2019-03-25. 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: Rue de la Science 23, B-1040 Brussels

EN 50160:2010/A3:2019 (E)

European foreword

This document (EN 50160:2010/A3:2019) has been prepared by CLC/TC 8X "System aspects of electrical energy supply".

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) 2020-03-20
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2022-09-20

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

The purpose of this document is to update the specification of PQ levels for harmonics, concerning the 15th and 21th harmonic, with regard to the development in loads connected to supply networks.

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1 Modification to 4.2.5, Harmonic voltage:

Replace Table 1 with the following:

Table 1 — Values of individual harmonic voltages at the supply terminals for orders up to 25 given in percent of the fundamental voltage u_1

Odd harmonics				Even harmonics	
Not multiples of 3		Multiples of 3			
Order h	Relative amplitude u_h	Order h	Relative amplitude u_h	Order h	Relative amplitude u_h
5	6,0 %	3	5,0 %	2	2,0 %
7	5,0 %	9	1,5 %	4	1,0 %
11	3,5 %	15	1,0 %	6 ... 24	0,5 %
13	3,0 %	21	0,75 %		
17	2,0 %				
19	1,5 %				
23	1,5 %				
25	1,5 %				

NOTE No values are given for harmonics of order higher than 25, as they are usually small, but largely unpredictable due to resonance effects.

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