

SLOVENSKI STANDARD

SIST EN IEC 60433:2021

01-november-2021

Nadomešča:
SIST EN 60433:2000

Izolatorji za nadzemne vode za nazivne napetosti nad 1000 V - Keramični izolatorji za izmenične sisteme - Karakteristike izolatorskih členov za paličaste izolatorje (IEC 60433:2021)

Insulators for overhead lines with a nominal voltage above 1000 V - Ceramic insulators for AC systems - Characteristics of insulator units of the long rod type (IEC 60433:2021)

Isolatoren für Freileitungen mit einer Nennspannung über 1 000 V - Keramische Isolatoren für Wechselstromsysteme - Kenngrößen von Kettenisolatoren in Langstabausführung (IEC 60433:2021)

[SIST EN IEC 60433:2021](https://standards.iteh.ai/catalog/standards/sist/cc61778f-3a39-48a2-bff2-c27a5c119503/iec-60433-2021)

Isolateurs pour lignes aériennes de tension nominale supérieure à 1 000 V - Isolateurs en céramique pour réseaux à tension alternative - caractéristiques des éléments d'isolateurs du type à long fût (IEC 60433:2021)

Ta slovenski standard je istoveten z: EN IEC 60433:2021

ICS:

29.080.10	Izolatorji	Insulators
29.240.20	Daljnovodi	Power transmission and distribution lines

SIST EN IEC 60433:2021 en,fr,de

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN IEC 60433:2021](#)

<https://standards.iteh.ai/catalog/standards/sist/cc61778f-3a39-48a2-bff2-c2c4a3c2169b/sist-en-iec-60433-2021>

EUROPEAN STANDARD

EN IEC 60433

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2021

ICS 29.080.10; 29.240.20

Supersedes EN 60433:1998 and all of its amendments
and corrigenda (if any)

English Version

**Insulators for overhead lines with a nominal voltage above
1 000 V - Ceramic insulators for AC systems - Characteristics of
insulator units of the long rod type
(IEC 60433:2021)**

Isolateurs pour lignes aériennes de tension nominale
supérieure à 1 000 V - Isolateurs en céramique pour
réseaux à tension alternative - caractéristiques des
éléments d'isolateurs du type à long fût
(IEC 60433:2021)

Isolatoren für Freileitungen mit einer Nennspannung über
1 000 V - Keramische Isolatoren für Wechselstromsysteme
- Kenngrößen von Kettenisolatoren in Langstabsausführung
(IEC 60433:2021)

This European Standard was approved by CENELEC on 2021-02-16. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 European Standard 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.

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, Turkey and the United Kingdom.



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 IEC 60433:2021 (E)**European foreword**

The text of document 36/498/FDIS, future edition 4 of IEC 60433, prepared by IEC/TC 36 "Insulators" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60433:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2021-11-16 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2024-02-16 document have to be withdrawn

This document supersedes EN 60433:1998 and all of its amendments and corrigenda (if any).

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.

Endorsement notice

The text of the International Standard IEC 60433:2021 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 standards indicated:

[SIST EN IEC 60433:2021](https://standards.iteh.ai/catalog/standards/sist/cc61778f-3a39-48a2-bff2-c2c4a3c2169b/sist-en-iec-60433-2021)

IEC 60071-1	NOTE	Harmonized as EN IEC 60071-1
IEC 60120	NOTE	Harmonized as EN IEC 60120
IEC 60471	NOTE	Harmonized as EN IEC 60471
IEC 60672-1	NOTE	Harmonized as EN 60672-1
IEC 60672-3	NOTE	Harmonized as EN 60672-3

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 Where 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 60383-1	-	Insulators for overhead lines with a nominal voltage above 1000 V - Part 1: Ceramic or glass insulator units for a.c. systems - Definitions, test methods and acceptance criteria	EN 60383-1	-

ITeH STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN IEC 60433:2021](https://standards.iteh.ai/catalog/standards/sist/cc61778f-3a39-48a2-bff2-c2c4a3c2169b/sist-en-iec-60433-2021)

<https://standards.iteh.ai/catalog/standards/sist/cc61778f-3a39-48a2-bff2-c2c4a3c2169b/sist-en-iec-60433-2021>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN IEC 60433:2021](#)

<https://standards.iteh.ai/catalog/standards/sist/cc61778f-3a39-48a2-bff2-c2c4a3c2169b/sist-en-iec-60433-2021>



IEC 60433

Edition 4.0 2021-01

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Insulators for overhead lines with a nominal voltage above 1 000 V – Ceramic insulators for AC systems – Characteristics of insulator units of the long rod type

Isolateurs pour lignes aériennes de tension nominale supérieure à 1 000 V – Isolateurs en céramique pour réseaux à tension alternative – Caractéristiques des éléments d'isolateurs du type à long fût

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 29.080.10; 29.240.20

ISBN 978-2-8322-9204-4

**Warning! Make sure that you obtained this publication from an authorized distributor.
Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.**

CONTENTS

FOREWORD	3
1 Scope	5
2 Normative references	5
3 Terms and definitions	6
4 Characteristics, dimensions and type of long rod insulators	6
5 Designation and marking	6
Bibliography.....	11
Figure 1 – Long rod insulator with clevis couplings, type C	10
Figure 2 – Long rod insulator with socket couplings, type B	10
Table 1 – Specified values for long rod insulators	8

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN IEC 60433:2021](https://standards.iteh.ai/catalog/standards/sist/cc61778f-3a39-48a2-bff2-c2c4a3c2169b/sist-en-iec-60433-2021)

<https://standards.iteh.ai/catalog/standards/sist/cc61778f-3a39-48a2-bff2-c2c4a3c2169b/sist-en-iec-60433-2021>

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**INSULATORS FOR OVERHEAD LINES
WITH A NOMINAL VOLTAGE ABOVE 1 000 V –
CERAMIC INSULATORS FOR AC SYSTEMS –
CHARACTERISTICS OF INSULATOR UNITS OF THE LONG ROD TYPE**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60433 has been prepared by IEC technical committee 36: Insulators.

This fourth edition cancels and replaces the third edition published in 1998. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) wording in Scope changed from "should" to "are intended to";
- b) new normative references added;
- c) title of Clause 4 amended, new Note 4 added;
- d) Table 1 expanded to include more specified mechanical failing loads.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
36/498/FDIS	36/500/RVD

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

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN IEC 60433:2021](https://standards.iteh.ai/catalog/standards/sist/cc61778f-3a39-48a2-bff2-c2c4a3c2169b/sist-en-iec-60433-2021)

<https://standards.iteh.ai/catalog/standards/sist/cc61778f-3a39-48a2-bff2-c2c4a3c2169b/sist-en-iec-60433-2021>