SLOVENSKI STANDARD
SIST EN 61466-2:2000/A2:2018

01-december-2018

Kompozitni izolatorji za nadzemne vode z nazivno napetostjo nad 1000 V - 2. del: Dimenzijske in električne karakteristike - Dopolnilo A2 (IEC 61466-2:1998/A2:2018)

Composite string insulator units for overhead lines with a nominal voltage greater than 1 000 V - Part 2: Dimensional and electrical characteristics (IEC 61466-2:1998/A2:2018)

Verbund-Kettenisolatoren für Freileitungen mit einer Nennspannung über 1000 V - Teil 2: Maße und elektrische Kennwerte (IEC 61466-2:1998/A2:2018)

Isolateurs composites destinés aux lignes aériennes de tension nominale supérieure à 1 000 V - Partie 2: Caractéristiques dimensionnelles et électriques (IEC 61466-2:1998/A2:2018)

Ta slovenski standard je istoveten z: **EN 61466-2:1998/A2:2018**

ICS:

29.080.10	Izolatorji	Insulators
29.240.20	Daljnovodi	Power transmission and distribution lines

SIST EN 61466-2:2000/A2:2018 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61466-2:1998/A2

August 2018

ICS 29.080.10; 29.240.20

English Version

Composite string insulator units for overhead lines with a nominal voltage greater than 1 000 V - Part 2: Dimensional and electrical characteristics (IEC 61466-2:1998/A2:2018)

Isolateurs composites destinés aux lignes aériennes de tension nominale supérieure à 1 000 V - Partie 2: Caractéristiques dimensionnelles et électriques (IEC 61466-2:1998/A2:2018)

Verbund-Kettenisolatoren für Freileitungen mit einer Nennspannung über 1000 V - Teil 2: Maße und elektrische Kennwerte (IEC 61466-2:1998/A2:2018)

This amendment A2 modifies the European Standard EN 61466-2:1998; it was approved by CENELEC on 2018-06-13. 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, 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

European foreword

The text of document 36/427/FDIS, future IEC 61466-2:1998/A2, prepared by IEC/TC 36 "Insulators" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61466-2:1998/A2:2018.

The following dates are fixed:

• latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2019-03-13
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2021-06-13

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 61466-2:1998/A2:2018 was approved by CENELEC as a European Standard without any modification.

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.

Publication	Year	Title	EN/HD	Year
Add to Annex ZA of EN 61466-2:1998 the following new reference:				
IEC/TS 60815-3	-	Selection and dimensioning of high-voltage insulators intended for use in polluted conditions - Part 3: Polymer insulators for a.c. systems	-	-

IEC 61466-2

Edition 1.0 2018-05

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 2
AMENDEMENT 2

Composite string insulator units for overhead lines with a nominal voltage greater than 1 000 V – Part 2: Dimensional and electrical characteristics

Isolateurs composites destinés aux lignes aériennes de tension nominale supérieure à 1 000 V – Partie 2: Caractéristiques dimensionnelles et électriques

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

ICS 29.080.10; 29.240.20

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FOREWORD

This amendment has been prepared by IEC technical committee 36: Insulators.

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

FDIS	Report on voting
36/427/FDIS	36/429/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 website 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.

INTRODUCTION to Amendment 2

Amendment 2 implements the introduction of UHV (ultra-high voltage) applications and the relevant characteristics of composite insulators.

1 Scope

Replace the first paragraph with the following new text:

This part of IEC 61466 is applicable to composite string insulator units with a specified mechanical load (SML) of 40 kN to 600 kN for AC overhead lines with a nominal voltage greater than 1 000 V and a frequency not greater than 100 Hz.

Replace the fourth paragraph with the following new text:

This standard specifies values for electrical and dimensional characteristics for composite insulators for overhead lines with a minimum lightning impulse withstand voltage (BIL) up to 3 100 kV and a specified mechanical load (SML) of 40 kN to 600 kN.

2 Normative references

Add the following new reference:

IEC TS 60815-3, *Selection and dimensioning of high-voltage insulators intended for use in polluted conditions – Part 3: Polymer insulators for a.c. systems*

8 Field control and arc protection devices

Replace the existing text and Table 1 with the following new text and new Table 1:

For higher system voltages field control devices may be necessary. When such devices are fitted on the insulators, the arcing distance in Table 1 shall be determined considering their presence. If separate arc protection devices are used, the required additional striking distance can be extrapolated.

Table 1 – Designation and characteristics of composite insulators

Designation[a]	Specified mechanical loads (SML) (typical values in white area) kN						Standard lightning impulse withstand voltage[b] kV	Minimum creepage distance[d] mm	Minimum dry arcing distance[c] mm	Highest voltage for equipment based on 27,8 mm/kV unified specific creepage distance[d] kV
CS(SML)(XZ)-60-195	40	70	100	120	160	210	60	195	100	12
CS(SML)(XZ)-75-195	40	70	100	120	160	210	75	195	125	12
CS(SML)(XZ)-75-280	40	70	100	120	160	210	75	280	125	17,5
CS(SML)(XZ)-95-195	40	70	100	120	160	210	95	195	160	12
CS(SML)(XZ)-95-280	40	70	100	120	160	210	95	280	160	17,5
CS(SML)(XZ)-95-385	40	70	100	120	160	210	95	385	160	24
CS(SML)(XZ)-125-385	40	70	100	120	160	210	125	385	210	24
CS(SML)(XZ)-145-385	40	70	100	120	160	210	145	385	240	24
CS(SML)(XZ)-145-580	40	70	100	120	160	210	145	580	240	36
CS(SML)(XZ)-170-580	40	70	100	120	160	210	170	580	285	36
CS(SML)(XZ)-250-835	40	70	100	120	160	210	250	835	435	52
CS(SML)(XZ)-325-1160	40	70	100	120	160	210	325	1 160	570	72,5
CS(SML)(XZ)-450-1970	40	70	100	120	160	210	450	1 970	815	123
CS(SML)(XZ)-450-2320	40	70	100	120	160	210	450	2 320	815	145
CS(SML)(XZ)-550-1970	40	70	100	120	160	210	550	1 970	1 005	123
CS(SML)(XZ)-550-2320	40	70	100	120	160	210	550	2 320	1 005	145
CS(SML)(XZ)-550-2720	40	70	100	120	160	210	550	2 720	1 005	170
CS(SML)(XZ)-650-2320	40	70	100	120	160	210	650	2 320	1 195	145
CS(SML)(XZ)-650-2720	40	70	100	120	160	210	650	2 720	1 195	170
CS(SML)(XZ)-650-3920	40	70	100	120	160	210	650	3 920	1 195	245