SLOVENSKI STANDARD
SIST EN IEC 61109:2025

01-september-2025

Izolatorji za nadzemne vode - Sestavljeni obesni nosilni in strižni zatezni izolatorji za izmenične sisteme z nazivno napetostjo nad 1 000 V - Definicije, preskusne metode in prevzemna merila (IEC 61109:2025)

Insulators for overhead lines - Composite suspension and tension insulators for a.c. systems with a nominal voltage greater than 1 000 V - Definitions, test methods and acceptance criteria (IEC 61109:2025)

Isolatoren für Freileitungen - Verbund-Hänge- und -Abspannisolatoren für Wechselstromsysteme mit einer Nennspannung über 1 000 V - Begriffe, Prüfverfahren und Annahmekriterien (IEC 61109:2025)

Isolateurs pour lignes aériennes - Isolateurs composites de suspension et d'ancrage destinés aux systèmes à courant alternatif de tension nominale supérieure à 1 000 v - Définitions, méthodes d'essai et critères d'acceptation (IEC 61109:2025)

Ta slovenski standard je istoveten z: **EN IEC 61109:2025**

ICS:

29.080.10	Izolatorji	Insulators
29.240.20	Daljnovodi	Power transmission and distribution lines

SIST EN IEC 61109:2025 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 61109

April 2025

ICS 29.080.10

Supersedes EN 61109:2008

English Version

Insulators for overhead lines - Composite suspension and tension insulators for a.c. systems with a nominal voltage greater than 1 000 V - Definitions, test methods and acceptance criteria (IEC 61109:2025)

Isolateurs pour lignes aériennes - Isolateurs composites de suspension et d'ancrage de tension supérieure à 1 000 V en courant alternatif et à 1 500 V en courant continu - Définitions, méthodes d'essai et critères d'acceptation (IEC 61109:2025)

Isolatoren für Freileitungen - Verbund-Hänge- und -Abspannisolatoren mit einer Wechselspannung über 1 000 V und einer Gleichspannung über 1500 V - Begriffe, Prüfverfahren und Annahmekriterien (IEC 61109:2025)

This European Standard was approved by CENELEC on 2025-04-02. 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.

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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

European foreword

The text of document 36/609/FDIS, future edition 3 of IEC 61109, prepared by TC 36 "Insulators" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61109:2025.

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)	2026-04-30
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2028-04-30

This document supersedes EN 61109:2008 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.

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Endorsement notice

The text of the International Standard IEC 61109:2025 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 standard indicated:

IEC 60721-1	NOTE	Approved as EN 60721-1
IEC 60721-1	NOTE	Approved as EN 60721-1
IEC 60587	NOTE	Approved as EN IEC 60587

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.cencenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 60060-1	-	High-voltage test techniques - Part 1: General definitions and test requirements	EN 60060-1	-
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 IEC 60383-1	-
IEC 60383-2	-	Insulators for overhead lines with a nominal voltage above 1000 V - Part 2: Insulator strings and insulator sets for a.c. systems - Definitions, test methods and acceptance criteria	EN 60383-2	-
IEC 60437	-	Radio interference test on high-voltage insulators	EN IEC 60437	-
IEC 61284	-	Overhead lines - Requirements and tests for fittings	EN 61284	-
IEC 61466-1	-	Composite string insulator units for overhead lines with a nominal voltage greater than 1 000 V - Part 1: Standard strength and end fittings	EN 61466-1	-
IEC 61467	-	Insulators for overhead lines - Insulator strings and sets for lines with a nominal voltage greater than 1 000 V - AC power arc tests	EN 61467	-
IEC 62217	—[1]	Polymeric HV insulators for indoor and outdoor use - General definitions, test methods and acceptance criteria	EN IEC 62217	—[2]

[1] Under preparation. Stage at the time of publication: IEC/FDIS 62217:2025.

[2] Under preparation. Stage at the time of publication: FprEN IEC 62217:2025

Publication	Year	Title	EN/HD	Year
IEC 62231	-	Composite station post insulators for substations with a.c. voltages greater than 1 000 V up to 245 kV - Definitions, test methods and acceptance criteria	EN 62231	-
ISO 3452	series	Non-destructive testing – Penetrant testing	EN ISO 3452	series

IEC 61109

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Insulators for overhead lines – Composite suspension and tension insulators with AC voltage greater than 1 000 V and DC voltage greater than 1 500 V – Definitions, test methods and acceptance criteria

Isolateurs pour lignes aériennes – Isolateurs composites de suspension et d'ancrage de tension supérieure à 1 000 V en courant alternatif et à 1 500 V en courant continu – Définitions, méthodes d'essai et critères d'acceptation

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