

SLOVENSKI STANDARD

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SIST EN 62146-1:2014/A1:2016

Kondenzatorji za izravnavo potenciala pri visokonapetostnih odklopnikih za izmenični tok - 1. del: Splošni in zaščitni kondenzatorji (IEC 62146-1:2026)

Capacitors for high-voltage alternating current circuit-breakers - Part 1: General and grading capacitors (IEC 62146-1:2026)

Spannungsausgleichskondensatoren für Hochspannungs-Wechselstrom-Leistungsschalter – Teil 1: Allgemeines und Kondensatoren mit Nennleistung (IEC 62146-1:2026)

Condensateurs pour disjoncteurs à courant alternatif haute tension - Partie 1: Généralités et condensateurs de répartition (IEC 62146-1:2026)

Ta slovenski standard je istoveten z: EN IEC 62146-1:2026

ICS:

31.060.70 Močnostni kondenzatorji Power capacitors

SIST EN IEC 62146-1:2026

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 62146-1

October 2026

ICS 31.060.01; 31.060.70

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English Version

**Capacitors for high-voltage alternating current circuit-breakers -
Part 1: General and grading capacitors
(IEC 62146-1:2026)**

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Spannungsausgleichskondensatoren für Hochspannungs-
Wechselstrom-Leistungsschalter - Teil 1: Allgemeines und
Kondensatoren mit Nennleistung
(IEC 62146-1:2026)

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Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 62146-1:2026 (E)**European foreword**

The text of document 33/746/FDIS, future edition 2 of IEC 62146-1, prepared by TC 33 "Power capacitors and their applications" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62146-1:2026.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2027-10-31 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2029-10-31 document have to be withdrawn

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In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 60068-2-11	NOTE	Approved as EN IEC 60068-2-11
IEC 60068-2-42	NOTE	Approved as EN 60068-2-42
IEC 60721-3-2	NOTE	Approved as EN IEC 60721-3-2

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 60060-1	-	High-voltage test techniques - Part 1: General terminology and test requirements	EN IEC 60060-1	-
IEC 60068-2-17	2023	Environmental testing - Part 2-17: Tests - Test Q: Sealing	EN IEC 60068-2-17	2023
IEC 60071-2	2023	Insulation co-ordination - Part 2: Application guidelines	EN IEC 60071-2	2023
IEC 60270	2025	High-voltage test techniques - Charge-based measurement of partial discharges	EN IEC 60270	2025
IEC 60296	-	Fluids for electrotechnical applications - Mineral insulating oils for electrical equipment	EN IEC 60296	-
IEC 60567	-	Oil-filled electrical equipment - Sampling of free gases and analysis of free and dissolved gases in mineral oils and other insulating liquids - Guidance	EN IEC 60567	-
IEC 60815	series	Selection and dimensioning of high-voltage insulators intended for use in polluted conditions	-	-
IEC 60867	-	Insulating liquids - Specifications for unused liquids based on synthetic aromatic hydrocarbons	EN IEC 60867	-
IEC 61099	-	Insulating liquids - Specifications for unused synthetic organic esters for electrical purposes	EN 61099	-
IEC 61462	-	Composite hollow insulators - Pressurized and unpressurized insulators for use in electrical equipment with AC rated voltage greater than 1 000 V AC and D.C. voltage greater than 1500V - Definitions, test methods, acceptance criteria and design recommendations	EN IEC 61462	-

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IEC 62146-2	2023	Capacitors for high-voltage alternating current circuit-breakers - Part 2: TRV capacitors	EN IEC 62146-2	2023
IEC 62155	2003	Hollow pressurized and unpressurized ceramic and glass insulators for use in electrical equipment with rated voltages greater than 1 000 V	EN 62155	2003
IEC 62271-1	-	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear	EN 62271-1	-
IEC 62271-100	-	High-voltage switchgear and controlgear - Part 100: Alternating-current circuit-breakers	EN IEC 62271-100	-
IEC 62271-203	-	High-voltage switchgear and controlgear - Part 203: AC gas-insulated metal-enclosed switchgear for rated voltages above 52 kV	EN IEC 62271-203	-
IEC 62271-205	-	High-voltage switchgear and controlgear - Part 205: Compact switchgear assemblies for rated voltages above 52 kV	EN 62271-205	-
IEC 62271-300	-	High-voltage switchgear and controlgear - Part 300: Seismic qualification of alternating current circuit-breakers	-	-
IEC 62770	-	Fluids for electrotechnical applications - Unused natural esters for transformers and similar electrical equipment	EN IEC 62770	-
IEC 63012	-	Insulating liquids - Unused modified or blended esters for electrotechnical applications	EN IEC 63012	-



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INTERNATIONAL STANDARD

**Capacitors for high-voltage alternating current circuit-breakers -
Part 1: General and grading capacitors**

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**Capacitors for high-voltage alternating current circuit-breakers -
Part 1: General and grading capacitors**

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IEC 62146-1 has been prepared by IEC technical committee 33: Power capacitors and their applications. It is an International Standard.

This second edition cancels and replaces the first edition published in 2016. This edition constitutes a technical revision.

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

- a) Clause re-ordering and reworked sentences;
- b) New type and special tests.

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

Draft	Report on voting
33/746/FDIS	33/750/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 62146 series, published under the general title *Capacitors for high-voltage alternating current circuit-breakers*, can be found on the IEC website.

Future documents in this series will carry the new general title as cited above. Titles of existing documents in this series will be updated at the time of the next edition.

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