

**Grading capacitors for high-voltage alternating current
circuit-breakers -- Part 1: General**

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NATIONAL FOREWORD

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ICS 31.060.01, 31.060.70

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**Grading capacitors for high-voltage alternating current circuit-breakers -
Part 1: General
(IEC 62146-1:2013)**

Condensateurs de répartition pour
disjoncteurs à courant alternatif haute
tension -
Partie 1: Généralités
(CEI 62146-1:2013)

Spannungsausgleichskondensatoren für
Hochspannungs-Wechselstrom-
Leistungsschalter -
Teiln 1: Allgemeines
(IEC 62146-1:2013)

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 33/535/FDIS, future edition 1 of IEC 62146-1, prepared by IEC/TC 33, "Power capacitors and their applications" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62146-1:2014.

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) 2014-09-14
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-10-30

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Endorsement notice

The text of the International Standard IEC 62146-1:2013 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:

IEC 60068-2-11	NOTE	Harmonized as EN 60068-2-11
IEC 60068-2-42	NOTE	Harmonized in EN 60068-2-42

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
CISPR 18-2	1986	Radio interference characteristics of overhead - power lines and high-voltage equipment - Part 2: Methods of measurement and procedure for determining limits		-
IEC Guide 109		Environmental aspects - Inclusion in electrotechnical product standards	-	-
IEC 60050 (Series)		International Electrotechnical Vocabulary (IEV)	-	-
IEC 60060-1	2010	High-voltage test techniques - Part 1: General definitions and test requirements	EN 60060-1	2010
IEC 60068-2-17	1994	Environmental testing - Part 2: Tests - Test Q: Sealing	EN 60068-2-17	1994
IEC 60071-1	2006	Insulation co-ordination - Part 1: Definitions, principles and rules	EN 60071-1	2006
IEC 60270 + corr. October	2000 2001	High-voltage test techniques - Partial discharge measurements	EN 60270	2001
IEC 60376	2005	Specification of technical grade sulfur hexafluoride (SF ₆) for use in electrical equipment	EN 60376	2005
IEC 60507	1991	Artificial pollution tests on high-voltage insulators to be used on a.c. systems	EN 60507	1993
IEC 60567	2011	Oil-filled electrical equipment - Sampling of gases and analysis of free and dissolved gases - Guidance	EN 60567	2011
IEC 60721-1 + A1 + A2	1990 1992 1995	Classification of environmental conditions - Part 1: Environmental parameters and their severities	EN 60721-1 - + A2 ¹⁾	1995 - 1995
IEC/TS 60815 (series)		Selection and dimensioning of high-voltage insulators intended for use in polluted conditions	-	-
IEC 61462	2007	Composite hollow insulators - Pressurized and unpressurized insulators for use in electrical equipment with rated voltage greater than 1 000 V - Definitions, test methods, acceptance criteria and design recommendations	EN 61462	2007

¹⁾ EN 60721-1 includes A1 to IEC 60721-1.

IEC 62155 (mod)	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	2007	High-voltage switchgear and controlgear - Part 1: Common specifications	EN 62271-1	2008
IEC 62271-100	2008	High-voltage switchgear and controlgear - Part 100: Alternating current circuit-breakers	EN 62271-100	2009
IEC 62271-203	2003	High-voltage switchgear and controlgear - Part 203: Gas-insulated metal-enclosed switchgear for rated voltages above 52 kV	EN 62271-203 ²⁾	2004
IEC/TR 62271-300	2006	High-voltage switchgear and controlgear - Part 300: Seismic qualification of alternating current circuit-breakers	-	-

²⁾ EN 62271-203 is superseded by EN 62271-203:2012, which is based on IEC 62271-203:2011.

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