SVENSK STANDARD SS-EN IEC 63210

Fastställd	Utgåva	Sida	Ansvarig kommitté
2021-11-17	1	1 (1+58)	SEK TK 33

Kraftkondensatorer – Shuntkondensatorer av självläkande typ för systemspänning över 1000 V

Shunt power capacitors of the self-healing type for AC systems having a rated voltage above 1 000 V

Som svensk standard gäller europastandarden EN IEC 63210:2021. Den svenska standarden innehåller den officiella engelska språkversionen av EN IEC 63210:2021.

Nationellt förord

Europastandarden EN IEC 63210:2021

består av:

– **europastandardens ikraftsättningsdokument,** utarbetat inom CENELEC
– **IEC 63210, First edition, 2021 - Shunt power capacitors of the self-healing type for AC systems having a rated voltage above 1 000 V**

utarbetad inom International Electrotechnical Commission, IEC.

ICS 31.060.70; 29.120.99

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Det finns många fördelar med att ha gemensamma tekniska regler för bl a mätning, säkerhet och provning och för utförande, skötsel och dokumentation av elprodukter och elanläggningar.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 63210

April 2021

ICS 31.060.70; 29.120.99

English Version

Shunt power capacitors of the self-healing type for AC systems having a rated voltage above 1 000 V (IEC 63210:2021)

Condensateurs-shunt de puissance autorégénérateurs destinés aux réseaux à courant alternatif de tension assignée supérieure à 1 000 V
(IEC 63210:2021)

Selbstheilende Leistungs-Parallelkondensatoren für Wechselstromanlagen mit einer Nennspannung über 1 kV
(IEC 63210:2021)

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

Ref. No. EN IEC 63210:2021 E

SEK Svensk Elstandard SS-EN IEC 63210, utg 1:2021

European foreword

The text of document 33/651/FDIS, future edition 1 of IEC 63210, prepared by IEC/TC 33 "Power capacitors and their applications" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63210:2021.

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) 2022-01-15
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-04-15

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 63210:2021 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:

IEC 60071-2:2018	NOTE	Harmonized as EN IEC 60071-2:2018 (not modified)
IEC 60831-1	NOTE	Harmonized as EN 60831-1
IEC 60871-1	NOTE	Harmonized as EN 60871-1
IEC 60038	NOTE	Harmonized as EN 60038
IEC 60099 (series)	NOTE	Harmonized as EN 60099 (series)

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
IEC 60060-1	-	High-voltage test techniques - Part 1: General definitions and test requirements	EN 60060-1	-
IEC 60071-1	2019	Insulation co-ordination - Part 1: Definitions, principles and rules	EN IEC 60071-1	2019
IEC 60071-2	1996	Insulation co-ordination - Part 2: Application guide	EN 60071-2	1997
IEC 60549	-	High-voltage fuses for the external protection of shunt capacitors	EN 60549	-

IEC 63210

Edition 1.0 2021-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Shunt power capacitors of the self-healing type for AC systems having a rated voltage above 1 000 V

Condensateurs-shunt de puissance autorégénérateurs destinés aux réseaux à courant alternatif de tension assignée supérieure à 1 000 V

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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SHUNT POWER CAPACITORS OF THE SELF-HEALING TYPE FOR AC SYSTEMS HAVING A RATED VOLTAGE ABOVE 1 000 V

FOREWORD

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IEC 63210 has been prepared by IEC technical committee 33: Power capacitors and their applications. It is an International Standard.

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

Draft	Report on voting
33/651/FDIS	33/653/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/standardsdev/publications.

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.

SHUNT POWER CAPACITORS OF THE SELF-HEALING TYPE FOR AC SYSTEMS HAVING A RATED VOLTAGE ABOVE 1 000 V

1 Scope

This document is applicable to both self-healing capacitor units and self-healing capacitor banks intended to be used, particularly, for power-factor correction of AC power systems having a rated voltage above 1 000 V and fundamental frequencies of 15 Hz to 60 Hz.

The following capacitors are excluded from this document:

– shunt power capacitors of the self-healing type for AC systems having a rated voltage up to and including 1 000 V (IEC 60831-1, -2);
– shunt power capacitors of the non-self-healing type for AC systems having a rated voltage up to and including 1 000 V (IEC 60931-1, -2 and -3);
– shunt capacitors of the non-self-healing type for AC power systems having a rated voltage above 1 000 V (IEC 60871-1, -2, -3 and -4);
– capacitors for inductive heat-generating plants operating at frequencies between 40 Hz and 24 000 Hz (IEC 60110-1 and -2);
– series capacitors (IEC 60143-1, -2, -3 and -4);
– AC motor capacitors (IEC 60252-1 and -2);
– coupling capacitors and capacitor dividers (IEC 60358-1, -2, -3, -4);
– capacitors for power electronic circuits (IEC 61071);
– small AC capacitors to be used for fluorescent and discharge lamps (IEC 61048 and IEC 61049);
– capacitors for suppression of radio interference;
– capacitors intended to be used in various types of electrical equipment, and thus considered as components;
– capacitors intended for use with DC voltage superimposed on the AC voltage.

Requirements for accessories such as insulators, switches, instrument transformers and external fuses are given in the relevant IEC standards and are not covered by the scope of this document.

The object of this document is to:

a) formulate uniform rules regarding performances, testing and rating;
b) formulate specific safety rules;
c) provide a guide for installation and operation.

2 Normative references

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.

IEC 60060-1, *High-voltage test techniques – Part 1: General definitions and test requirements*

IEC 60071-1:2019, *Insulation co-ordination – Part 1: Definitions, principles and rules*

IEC 60071-2:1996, *Insulation co-ordination – Part 2: Application guide* [1]

IEC 60549, *High-voltage fuses for the external protection of shunt capacitors*

[1] Withdrawn. IEC 60071-2:1996 has been cancelled and replaced by IEC 60071-2:2018.