

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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN IEC 63210:2021 sisaldab Euroopa standardi EN IEC 63210:2021 ingliskeelset teksti.	This Estonian standard EVS-EN IEC 63210:2021 consists of the English text of the European standard EN IEC 63210:2021.
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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)

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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.

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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.

<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 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	-

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 STANDARD

NORME INTERNATIONALE

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

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CONTENTS

FOREWORD.....	6
1 Scope	8
2 Normative references	8
3 Terms and definitions	9
4 Service conditions	13
4.1 Normal service conditions	13
4.2 Unusual service conditions	14
5 Quality requirements and tests	14
5.1 General.....	14
5.2 Test conditions	14
6 Classification of tests	15
6.1 Routine tests.....	15
6.2 Type tests and design tests	15
6.3 Acceptance tests	16
7 Capacitance measurement	16
7.1 Measuring procedure	16
7.2 Capacitance tolerances.....	17
8 Measurement of the tangent of the loss angle ($\tan \delta$) of the capacitor	17
8.1 Measuring procedure	17
8.2 Loss requirements	17
9 Voltage tests between terminals	17
9.1 General for routine test	17
9.2 AC test	17
9.3 DC test	18
9.4 Type test.....	18
10 Voltage tests between terminals and container	18
10.1 Routine test	18
10.2 Type test.....	19
11 Test of internal discharge device	19
12 Sealing test	19
13 Thermal stability test (type test).....	20
13.1 General.....	20
13.2 Measuring procedure	20
14 Measurement of the tangent of the loss angle ($\tan \delta$) of the capacitor at elevated temperature (type test)	21
14.1 Measuring procedure	21
14.2 Requirements	21
15 Lightning impulse test between terminals and container (type test).....	21
16 Overvoltage test (design test).....	22
16.1 General.....	22
16.2 Conditioning of the sample before the test	22
16.3 Test procedure.....	23
16.4 Acceptance criteria	23
16.5 Validity of test.....	23
16.5.1 General	23

16.5.2	Element design.....	23
16.5.3	Test unit design	23
16.5.4	Waveform of overvoltage	24
17	Short-circuit discharge test (type test)	24
18	Self-healing test (type test).....	25
18.1	General.....	25
18.2	Test setup.....	25
18.3	Acceptance criteria	25
19	Destruction test (design test)	25
19.1	General.....	25
19.2	Test setup for capacitors without actively monitored safety device (internally protected)	26
19.3	Acceptance criteria	26
19.4	Test setup for capacitors with actively monitored safety device (externally protected)	27
19.5	Acceptance criteria	27
20	Insulation levels.....	27
20.1	Standard insulation values	27
20.2	General requirements	28
20.2.1	General	28
20.2.2	Adjacent insulating components and equipment.....	28
20.2.3	Capacitors insulated from ground	28
20.2.4	Capacitors with neutral connected to ground	29
20.3	Test between terminals and container of capacitor units	29
20.4	Capacitors in single-phase systems	29
21	Overloads – Maximum permissible voltage	32
21.1	Long duration voltages.....	32
21.2	Switching overvoltages	32
22	Overloads – Maximum permissible current.....	32
23	Safety requirements for discharge devices	33
24	Safety requirements for container connections	33
25	Safety requirements for protection of the environment	33
26	Other safety requirements	33
27	Markings of the capacitor unit.....	34
27.1	Rating plate	34
27.2	Standardized connection symbols	34
27.3	Warning plate	35
28	Markings of the capacitor bank	35
28.1	Instruction sheet or rating plate.....	35
28.2	Warning plate	35
29	Guide for installation and operation	35
29.1	General.....	35
29.2	Choice of the rated voltage	36
29.3	Operating temperature	36
29.3.1	General	36
29.3.2	Installation.....	37
29.3.3	High ambient air temperature.....	37
29.4	Special service conditions.....	37

29.5	Overvoltages	38
29.5.1	General	38
29.5.2	Restriking of switches	38
29.5.3	Lightning	38
29.5.4	Motor self-excitation	38
29.5.5	Star-delta starting	38
29.5.6	Capacitor unit selection	38
29.6	Overload currents	39
29.6.1	Continuous overcurrents	39
29.6.2	Transient overcurrents	39
29.7	Switching and protective devices	39
29.7.1	Withstand requirements	39
29.7.2	Restrike-free circuit-breakers	40
29.7.3	Relay settings	40
29.8	Choice of insulation levels	41
29.8.1	General	41
29.8.2	Altitudes exceeding 1 000 m	41
29.8.3	Influence of the capacitor itself	41
29.8.4	Overhead ground wires	43
29.9	Choice of creepage distances and air clearance	43
29.9.1	Creepage distance	43
29.9.2	Air clearances	44
29.10	Capacitors connected to systems with audio-frequency remote control	46
Annex A (normative)	Requirements regarding comparable element design and test unit design	47
A.1	Test element design criteria	47
A.2	Test unit design	47
Annex B (informative)	Self-healing breakdown test equipment that may be used	49
Annex C (normative)	Test requirements and application guide for external fuses and units to be externally fused	50
C.1	General	50
C.2	Performance requirements	50
C.3	Tests on fuses	50
C.4	Guide for coordination of fuse protection	50
C.4.1	General	50
C.4.2	Protection sequence	51
C.5	Choice of fuses	52
C.5.1	General	52
C.5.2	Non current-limiting fuses	52
C.5.3	Current-limiting fuses	52
C.6	Information needed by the user of the fuses	52
Annex D (informative)	Formulae for capacitors and installations	53
D.1	Computation of the output of three-phase capacitors from three single-phase capacitance measurements	53
D.2	Resonant frequency	53
D.3	Voltage increase	53
D.4	Inrush transient current	54
D.4.1	Switching in of single capacitor bank	54
D.4.2	Switching on of a bank in parallel with energized bank(s)	54

D.5 Discharge resistance in single-phase unit	54
D.6 Discharge time to 10 % of rated voltage	55
Bibliography	56
Figure 1 – Time and amplitude limits for an overvoltage period	24
Figure 2 – Bank isolated from ground	42
Figure 3 – Bank isolated from ground (containers connected to ground)	42
Figure 4 – Bank connected to ground	43
Figure 5 – Air clearance versus AC withstand	46
Figure B.1 – Example of self-healing detection equipment	49
Table 1 – Letter symbols for upper limit of temperature range	14
Table 2 – Ambient air temperature for the thermal stability test	20
Table 3 – Standard insulation levels for range I ($1 \text{ kV} < U_m \leq 245 \text{ kV}$)	30
Table 4 – Standard insulation levels for range II ($U_m > 245 \text{ kV}$)	31
Table 5 – Admissible voltage levels in service	32
Table 6 – Insulation requirements	41
Table 7 – Specific creepage distances	43
Table 8 – Correlation between standard lightning impulse withstand voltages and minimum air clearances (Table A.1 from IEC 60071-2:1996)	45

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

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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.

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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*