



**NSAI**  
Standards

Irish Standard  
I.S. EN IEC 63210:2021

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

**I.S. EN IEC 63210:2021**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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NSAI  
1 Swift Square,  
Northwood, Santry  
Dublin 9

T +353 1 807 3800  
F +353 1 807 3838  
E standards@nsai.ie  
W NSAI.ie

Sales:  
T +353 1 857 6730  
F +353 1 857 6729  
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## National Foreword

I.S. EN IEC 63210:2021 is the adopted Irish version of the European Document EN IEC 63210:2021, Shunt power capacitors of the self-healing type for AC systems having a rated voltage above 1 000 V

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EUROPEAN STANDARD

**EN IEC 63210**

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2021

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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)

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

This European Standard was approved by CENELEC on 2021-04-15. 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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Europäisches Komitee für Elektrotechnische Normung

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

## **EN IEC 63210:2021 (E)**

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- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-04-15

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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

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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](http://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	-

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**IEC 63210**

Edition 1.0 2021-03

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**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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IEC Central Office  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
[info@iec.ch](mailto:info@iec.ch)  
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**IEC 63210**

Edition 1.0 2021-03

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**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**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

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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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).



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- 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*

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