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KUNI 1000 V. OSA 1: ÜLDIST

Shunt power capacitors of the non-self-healing type  
for AC systems having a rated voltage up to and  
including 1 000 V - Part 1: General

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>See Eesti standard EVS-EN IEC 60931-1:2025 sisaldab Euroopa standardi EN IEC 60931-1:2025 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 29.08.2025.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN IEC 60931-1:2025 consists of the English text of the European standard EN IEC 60931-1:2025.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 29.08.2025.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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ICS 29.120.99, 31.060.70

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EUROPEAN STANDARD

**EN IEC 60931-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2025

ICS 29.120.99; 31.060.70

Supersedes EN 60931-1:1996; EN 60931-1:1996/A1:2003

English Version

**Shunt power capacitors of the non-self-healing type for AC  
systems having a rated voltage up to and including 1 000 V -  
Part 1: General  
(IEC 60931-1:2025)**

Condensateurs shunt de puissance non autorégénérateurs  
pour réseaux à courant alternatif de tension assignée  
inférieure ou égale à 1 000 V - Partie 1 : Généralités  
(IEC 60931-1:2025)

Nichtselbstheilende Leistungs-Parallelkondensatoren für  
Wechselstromanlagen mit einer Nennspannung bis  
einschließlich 1000 V - Teil 1: Allgemeines  
(IEC 60931-1:2025)

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## European foreword

The text of document 33/721/FDIS, future edition 3 of IEC 60931-1, prepared by TC 33 "Power capacitors and their applications" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60931-1:2025.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2026-08-31 level by publication of an identical national standard or by endorsement
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In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 60831 series	NOTE	Approved as EN 60831 series
IEC 60871 series	NOTE	Approved as EN 60871 series
IEC 60110 series	NOTE	Approved as EN 60110 series
IEC 60143 series	NOTE	Approved as EN IEC 60143 series
IEC 60252 series	NOTE	Approved as EN 60252 series
IEC 60358 series	NOTE	Approved as EN IEC 60358 series
IEC 61071	NOTE	Approved as EN 61071
IEC 61048	NOTE	Approved as EN 61048
IEC 61049	NOTE	Approved as EN 61049
IEC 63210	NOTE	Approved as EN IEC 63210
IEC 60831-1:2014	NOTE	Approved as EN 60831-1:2014 (not modified)

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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**Shunt power capacitors of the non-self-healing type for AC systems having a rated voltage up to and including 1 000 V –  
Part 1: General**

**Condensateurs shunt de puissance non autorégénérateurs pour réseaux à courant alternatif de tension assignée inférieure ou égale à 1 000 V –  
Partie 1 : Généralités**



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## CONTENTS

FOREWORD.....	4
1 Scope.....	6
2 Normative references .....	6
3 Terms and definitions .....	7
4 Service conditions .....	10
4.1 Normal service conditions .....	10
4.2 Unusual service conditions.....	11
5 Test requirements.....	11
5.1 General.....	11
5.2 Test conditions.....	11
6 Tests.....	11
6.1 Classification .....	11
6.1.1 General .....	11
6.1.2 Routine tests .....	11
6.1.3 Type tests.....	12
6.1.4 Acceptance tests.....	12
6.2 Capacitance measurement and output calculation.....	13
6.2.1 Measuring procedure .....	13
6.2.2 Capacitance tolerances.....	13
6.3 Measurement of the tangent of the loss angle ( $\tan \delta$ ) of the capacitor.....	13
6.3.1 Measuring procedure .....	13
6.3.2 Loss requirements .....	14
6.4 Voltage tests between terminals .....	14
6.4.1 Routine test .....	14
6.4.2 Type test .....	14
6.5 Voltage tests between terminals and container .....	14
6.5.1 Routine test .....	14
6.5.2 Type test .....	15
6.6 Test of internal discharge device .....	15
6.7 Sealing test.....	15
6.8 Thermal stability test.....	16
6.9 Measurement of the tangent of the loss angle ( $\tan \delta$ ) of the capacitor at elevated temperature .....	17
6.9.1 Measuring procedure .....	17
6.9.2 Requirements .....	17
6.10 Lightning impulse voltage test between terminals and container .....	17
6.11 Discharge test.....	18
6.12 Ageing test .....	18
6.13 Destruction test.....	18
6.14 Disconnecting test on internal fuses .....	18
6.14.1 General .....	18
6.14.2 Test procedure.....	19
6.14.3 Capacitance measurement.....	19
6.14.4 Inspection of the unit.....	20
6.14.5 Voltage test after opening the container.....	20
7 Maximum permissible voltage .....	20

7.1	Long-duration voltages .....	20
7.2	Switching voltages .....	21
8	Maximum permissible current.....	21
9	Discharge device .....	21
10	Container connections .....	22
11	Protection of the environment .....	22
12	Other safety requirements.....	22
13	Marking of the unit.....	22
13.1	Rating plate .....	22
13.2	Standardized connection symbols.....	23
13.3	Warning plate.....	23
14	Marking of the bank .....	23
14.1	Instruction sheet or rating plate .....	23
14.2	Warning plate .....	23
15	General .....	24
16	Choice of the rated voltage .....	24
17	Operating temperature .....	25
17.1	General.....	25
17.2	Installation .....	25
17.3	High ambient air temperature .....	25
17.4	Evaluation of losses .....	25
18	Special service conditions.....	26
19	Overvoltages .....	26
20	Overload currents .....	27
21	Switching and protective devices and connections.....	27
22	Choice of creepage distance .....	28
23	Capacitors connected to systems with audio-frequency remote control.....	28
24	Electromagnetic compatibility (EMC) .....	29
24.1	Emission.....	29
24.2	Immunity.....	29
24.2.1	General .....	29
24.2.2	Low-frequency disturbances.....	29
24.2.3	Conducted transients and high-frequency disturbances.....	29
24.2.4	Electrostatic discharges .....	29
24.2.5	Magnetic disturbances .....	29
24.2.6	Electromagnetic disturbances.....	30
Annex A (normative) Additional definitions, requirements and tests for power filter capacitors.....		31
A.1	Additional terms and definitions .....	31
A.1.1	Band-pass and high-pass filter capacitor (filter capacitor) .....	31
A.1.2	Rated voltage ( $U_N$ ) (see 3.11).....	31
A.1.3	Rated output ( $Q_N$ ) (see 3.10) .....	31
A.1.4	Rated current ( $I_N$ ) (see 3.16) .....	31
A.2	Quality requirements and tests .....	31
A.2.1	Capacitance tolerance.....	31
A.2.2	Voltage test between terminals (see 6.4) .....	32

A.2.3	Thermal stability test (see 6.8) .....	32
A.3	Overloads – Maximum permissible current (see Clause 8).....	32
A.4	Markings – Instruction sheet or rating plate (see 14.1) .....	32
A.5	Guide for installation and operation – Choice of the rated voltage (see Clause 16).....	32
Annex B (informative)	Formulae for capacitors and installations.....	33
B.1	Computation of the output of three-phase capacitor from three single-phase capacitance measurements .....	33
B.2	Resonance frequency.....	33
B.3	Voltage rise .....	33
B.4	Inrush transient current .....	34
B.4.1	Switching in of single capacitor .....	34
B.4.2	Switching of capacitors in parallel with energized capacitor(s).....	34
B.4.3	Discharge resistance in single-phase units or in one-phase or polyphase units.....	34
Annex C (normative)	Test procedures for the disconnecting test on internal fuses .....	36
C.1	General.....	36
C.2	Test procedure.....	36
Annex D (informative)	Guidance for coordination of fuse protection.....	38
D.1	General.....	38
D.2	Protection sequence.....	38
Bibliography	.....	39
Figure B.1	$k$ values depending on the method of connection of the resistors with the capacitor units .....	35
Table 1	Letter symbols for upper limit of temperature range .....	10
Table 2	Ambient air temperature for the thermal stability test .....	16
Table 3	Admissible voltage levels in service .....	20

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**Shunt power capacitors of the non-self-healing type for AC systems  
having a rated voltage up to and including 1 000 V –  
Part 1: General**

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IEC 60931-1 has been prepared by IEC technical committee 33: Power capacitors and their applications. It is an International Standard.

This third edition cancels and replaces second edition published in 1996 and Amendment 1:2002. This edition constitutes a technical revision.

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

- a) integration of IEC 60931-3 within IEC 60931-1;
- b) deletion of self-healing test.

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

Draft	Report on voting
33/721/FDIS	33/725/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/publications](http://www.iec.ch/publications).

A list of all parts in the IEC 60931 series, published under the general title *Shunt power capacitors of the non-self-healing type for AC systems having a rated voltage up to and including 1 000 volts*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

## 1 Scope

This part of IEC 60931 is applicable to both non-self-healing capacitor units and non-self-healing capacitor banks intended to be used, particularly, for power-factor correction of AC power systems having a rated voltage up to and including 1 000 V and frequencies 15 Hz to 60 Hz.

This document also applies to capacitors intended for use in power filter circuits. Additional definitions, requirements, and tests for filter capacitors are given in Annex A.

The following capacitors are excluded from this part of IEC 60931:

- Shunt power capacitors of the self-healing type for AC systems having a rated voltage up to and including 1 000 V (IEC 60831 series [1]<sup>1</sup>)
- Shunt capacitors for AC power systems having a rated voltage above 1 000 V (IEC 60871 series [2])
- Power capacitors for induction heating installations (IEC 60110 series [3])
- Series capacitors for power systems (IEC 60143 series [4])
- Capacitors for motor applications (IEC 60252 series [5])
- Coupling capacitors and capacitor dividers (IEC 60358 series [6])
- Capacitors for power electronics (IEC 61071 [7])
- Small AC capacitors to be used for fluorescent and discharge lamps (IEC 61048 [8] and IEC 61049 [9])
- Capacitors for suppression of radio interference (under consideration)
- 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
- Shunt power capacitors of the self-healing type for AC systems having a rated voltage above 1 000 V (IEC 63210 [10])

Accessories such as insulators, switches, instrument transformers, fuses, etc., are to be in accordance with the relevant IEC standards.

The purpose of this document is:

- a) to formulate uniform rules regarding performances, testing and rating;
- b) to formulate specific safety rules;
- c) to 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 60931-2, *Shunt power capacitors of the non-self-healing type for a.c. systems having a rated voltage up to and including 1000 V – Part 2: Ageing test and destruction test*

<sup>1</sup> Numbers in square brackets refer to the Bibliography.

IEC 61000-2-2:2002, *Electromagnetic compatibility (EMC) – Part 2-2: Environment – Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems*

IEC TR 61000-4-1, *Electromagnetic compatibility (EMC) – Part 4-1: Testing and measurement techniques – Overview of IEC 61000-4 series*

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

#### 3.1

##### **capacitor element element**

device consisting essentially of two electrodes separated by a dielectric

[SOURCE: IEC 60050-436:1990 [11], 436-01-03]

#### 3.2

##### **capacitor unit unit**

assembly of one or more capacitor elements in the same container with terminals brought out

[SOURCE: IEC 60050-436:1990 [11], 436-01-04]

#### 3.3

##### **non-self-healing capacitor**

capacitor in which the dielectric, after local break-down, is not restored

#### 3.4

##### **capacitor bank bank**

number of capacitor units connected so as to act together

[SOURCE: IEC 60050-436:1990 [11], 436-01-06]

#### 3.5

##### **capacitor**

generic term, encompassing the notions of capacitor unit and capacitor bank

Note 1 to entry: In this part of IEC 60931, the word capacitor is used when it is not necessary to lay particular stress upon the different meanings of the words capacitor unit or capacitor bank.

[SOURCE: IEC 60831-1:2014 [12], 3.5]