

# Isolationskoordinering for udstyr til lavspændingsforsyningsystemer – Del 1: Principper, krav og prøvninger

Insulation coordination for equipment within  
low-voltage supply systems –  
Part 1: Principles, requirements and tests

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## EUROPÄISCHE NORM

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English Version

## Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests (IEC 60664-1:2020/AMD1:2025)

Coordination de l'isolement des matériels dans les réseaux  
d'énergie électrique à basse tension - Partie 1:  
Principes, exigences et essais  
(IEC 60664-1:2020/AMD1:2025)

Isolationskoordination für Betriebsmittel in  
Niederspannungs-Stromversorgungssystemen -  
Teil 1: Grundsätze, Anforderungen und Prüfungen  
(IEC 60664-1:2020/AMD1:2025)

This amendment A1 modifies the European Standard EN IEC 60664-1:2020; it was approved by CENELEC on 2025-06-10. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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

## European foreword

The text of document 109/235/FDIS, future edition 3 of IEC 60664-1/AMD1, prepared by TC 109 "Insulation co-ordination for low-voltage equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60664-1:2020/A1:2025.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2026-06-30 level by publication of an identical national standard or by endorsement
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The text of the International Standard IEC 60664-1:2020/AMD1:2025 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 standard indicated:

- |                    |      |                                   |
|--------------------|------|-----------------------------------|
| IEC 61643 (series) | NOTE | Approved as EN IEC 61643 (series) |
| IEC 60364-1        | NOTE | Approved as HD 60364-1            |



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AMENDEMENT 1

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**Insulation coordination for equipment within low-voltage supply systems –  
Part 1: Principles, requirements and tests**

**Coordination de l'isolement des matériels dans les réseaux d'énergie électrique  
à basse tension –  
Partie 1: Principes, exigences et essais**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

### INSULATION COORDINATION FOR EQUIPMENT WITHIN LOW-VOLTAGE SUPPLY SYSTEMS –

#### Part 1: Principles, requirements and tests

#### AMENDMENT 1

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Amendment 1 to IEC 60664:2020 has been prepared by IEC technical committee 109: Insulation co-ordination for low-voltage equipment.

The text of this Amendment is based on the following documents:

Draft	Report on voting
109/235/FDIS	109/240/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

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The language used for the development of this Amendment 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/).

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- revised.

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*Throughout the document (except in the Bibliography), delete:*

IEC 60364-4-44:2007

*and replace with:*

IEC 60364-4-44:2024.

## 1 Scope

*Replace the first paragraph with the following:*

This part of IEC 60664 deals with **insulation coordination** for **electrical equipment** having a **rated voltage** up to AC 1 000 V or DC 1 500 V connected to **low-voltage supply systems**.

NOTE 1 Throughout this document, the term equipment is used with the meaning of **electrical equipment**.

*Renumber NOTE 1 and NOTE 2 respectively as NOTE 2 and NOTE 3.*

*Add, at the end of the existing last paragraph, the following NOTE:*

NOTE 4 Further explanations and examples with regard to the use of this document are provided in IEC TR 60664-2-1.