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Protection against lightning - Part 4: Electrical and electronic systems within structures

Blitzschutz --Teil 4: Elektrische und elektronische Systeme in baulichen Anlagen

Protection contre la foudre - Partie 4: Réseaux de puissance et de communication dans les structures

Ta slovenski standard je istoveten z: EN IEC 62305-4:2024

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**Protection against lightning - Part 4: Electrical and electronic systems within structures
(IEC 62305-4:2024)**

Protection contre la foudre - Partie 4: Réseaux de puissance et de communication dans les structures
(IEC 62305-4:2024)

Blitzschutz - Teil 4: Elektrische und elektronische Systeme in baulichen Anlagen
(IEC 62305-4:2024)

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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

EN IEC 62305-4:2024 (E)**European foreword**

The text of document 81/733/FDIS, future edition 3 of IEC 62305-4, prepared by TC 81 "Lightning protection" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62305-4:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2025-10-31 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2027-10-31 document have to be withdrawn

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In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 60364-4-43	NOTE	Approved as HD 60364-4-43
IEC 60364-4-44:2007	NOTE	Approved as HD 60364-4-444:2010
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IEC 61000 series	NOTE	Approved as EN IEC 61000 series
IEC 62475	NOTE	Approved as EN 62475
IEC 60060 series	NOTE	Approved as EN 60060 series
IEC 62793	NOTE	Approved as EN IEC 62793
IEC 60038	NOTE	Approved as EN 60038
IEC 61643-351	NOTE	Approved as EN 61643-351
IEC 61643-352	NOTE	Approved as EN IEC 61643-352

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.cencenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60364-5-53	2019	Low-voltage electrical installations -- Part 5-53: Selection and erection of electrical equipment - Protection, isolation, switching, control and monitoring	-	-
IEC 60664-1	-	Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests	EN IEC 60664-1	-
IEC 61000-4-5	-	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	EN 61000-4-5	-
IEC 61000-4-9	-	Electromagnetic compatibility (EMC) – Part 4-9: Testing and measurement techniques – Impulse magnetic field immunity test	EN 61000-4-9	-
IEC 61000-4-10	-	Electromagnetic compatibility (EMC) – Part 4-10: Testing and measurement techniques – Damped oscillatory magnetic field immunity test	EN 61000-4-10	-
IEC 61643-11 (mod)	2011	Low-voltage surge protective devices - Part 11: Surge protective devices connected to low-voltage power systems - Requirements and test methods	EN 61643-11	2012
-	-		+ A11	2018
IEC 61643-12	2020	Low-voltage surge protective devices - Part 12: Surge protective devices connected to low-voltage power systems - Selection and application principles	-	-
IEC 61643-21	-	Low voltage surge protective devices - Part 21: Surge protective devices connected to telecommunications and signalling networks - Performance requirements and testing methods	EN 61643-21	-

EN IEC 62305-4:2024 (E)

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IEC 61643-22	-	Low-voltage surge protective devices - Part 22: Surge protective devices connected to telecommunications and signalling networks - Selection and application principles	CLC/TS 61643-22	-
IEC 61643-31	-	Low-voltage surge protective devices – Part 31: Requirements and test methods for SPDs for photovoltaic installations	EN 61643-31	-
IEC 61643-32	2017	Low-voltage surge protective devices – Part 32: Surge protective devices connected to the d.c. side of photovoltaic installations – Selection and application principles	-	-
IEC 62305-1	2024	Protection against lightning - Part 1: General principles	EN IEC 62305-1	2024
IEC 62305-2	2024	Protection against lightning - Part 2: Risk management	EN IEC 62305-2	2024
IEC 62305-3	2024	Protection against lightning - Part 3: Physical damage to structures and life hazard	EN IEC 62305-3	2024
IEC 62561	series	Lightning protection system components (LPSC) - Part 1: Requirements for connection components	EN IEC 62561	series

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NORME INTERNATIONALE



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Part 4: Electrical and electronic systems within structures**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

PROTECTION AGAINST LIGHTNING –

Part 4: Electrical and electronic systems within structures

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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IEC 62305-4 has been prepared by IEC technical committee 81: Lightning protection. It is an International Standard.

This third edition cancels and replaces the second edition published in 2010. This edition constitutes a technical revision.

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

- a) addition of new informative Annex E and Annex F on the determination of current sharing using modelling and current sharing in PV installations respectively;
- b) addition of a new informative Annex G on methods of testing of system level behaviour;
- c) addition of a new informative Annex H on induced voltages in SPD-protected installations.