
Eksplzivne atmosfere - 11. del: Zaščita opreme z lastno varnostjo "i" (IEC 60079-11:2023 + COR1:2023)

Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i" (IEC 60079-11:2023 + COR1:2023)

Explosionsgefährdete Bereiche - Teil 11: Geräteschutz durch Eigensicherheit "i" (IEC 60079-11:2023 + COR1:2023)

Atmosphères explosives - Partie 11: Protection de l'équipement par sécurité intrinsèque "i" (IEC 60079-11:2023 + COR1:2023)

Ta slovenski standard je istoveten z: EN IEC 60079-11:2024

[SIST EN IEC 60079-11:2025](https://standards.iteh.ai/catalog/standards/sist/67a6cd14-3954-4197-86cf-37741ec079da/sist-en-iec-60079-11-2025)

ICS:

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| 29.260.20 | Električni aparati za eksplozivna ozračja | Electrical apparatus for explosive atmospheres |
|-----------|---|--|

SIST EN IEC 60079-11:2025

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 60079-11

December 2024

ICS 29.260.20

Supersedes EN 60079-11:2012

English Version

Explosive atmospheres - Part 11: Equipment protection by
intrinsic safety "i"
(IEC 60079-11:2023 + COR1:2023)

Atmosphères explosives - Partie 11: Protection de
l'équipement par sécurité intrinsèque "i"
(IEC 60079-11:2023 + COR1:2023)

Explosionsgefährdete Bereiche - Teil 11: Geräteschutz
durch Eigensicherheit "i"
(IEC 60079-11:2023 + COR1:2023)

This European Standard was approved by CENELEC on 2024-10-16. 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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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<https://standards.iteh.ai/catalog/standards/sist/b7accd14-e934-4197-86ef-57741fc6f9da/sist-en-iec-60079-11-2025>



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 60079-11:2024 (E)**European foreword**

The text of document 31G/352/FDIS, future edition 7 of IEC 60079-11 + COR1:2023, prepared by SC 31G "Intrinsically-safe apparatus" of IEC/TC 31 "Equipment for explosive atmospheres" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60079-11:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2025-12-31 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2027-12-31 document have to be withdrawn

This document supersedes EN 60079-11:2012 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 60079-11:2023 + COR1:2023 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 60068-2-14 | NOTE | Approved as EN IEC 60068-2-14 |
| IEC 60068-2-78 | NOTE | Approved as EN 60068-2-78 |
| IEC 60079-14 | NOTE | Approved as EN IEC 60079-14 |
| IEC 60079-18 | NOTE | Approved as EN 60079-18 |
| IEC 60079-19 | NOTE | Approved as EN IEC 60079-19 |
| IEC 60079-28 | NOTE | Approved as EN 60079-28 |
| IEC 60364-4-41 | NOTE | Approved as HD 60364-4-41 |
| IEC 61086-1 | NOTE | Approved as EN 61086-1 |
| IEC 61191-2 | NOTE | Approved as EN 61191-2 |
| IEC 62133-1 | NOTE | Approved as EN 62133-1 |
| IEC 62368-1 | NOTE | Approved as EN IEC 62368-1 |

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 60079-0 | - | Explosive atmospheres - Part 0: Equipment - General requirements | EN IEC 60079-0 | - |
| IEC 60079-7 | - | Explosive atmospheres - Part 7: Equipment protection by increased safety "e" | EN 60079-7 | - |
| IEC 60079-25 | - | Explosive atmospheres - Part 25: Intrinsically safe electrical systems | EN IEC 60079-25 | - |
| IEC 60085 | - | Electrical insulation - Thermal evaluation and designation | EN 60085 | - |
| IEC 60112 | - | Method for the determination of the proof and the comparative tracking indices of solid insulating materials | EN IEC 60112 | - |
| IEC 60127 | series | Miniature fuses | EN IEC 60127 | series |
| IEC 60317-0-1 | - | Specifications for particular types of winding wires - Part 0-1: General requirements - Enamelled round copper wire | EN 60317-0-1 | - |
| IEC 60529 | - | Degrees of protection provided by enclosures (IP Code) | EN 60529 | - |
| IEC 60664-1 | - | Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests | EN IEC 60664-1 | - |
| IEC 60664-3 | - | Insulation coordination for equipment within low-voltage systems - Part 3: Use of coating, potting or moulding for protection against pollution | EN 60664-3 | - |
| IEC 60691 | - | Thermal-links - Requirements and application guide | EN IEC 60691 | - |
| IEC 60747-5-5 | - | Semiconductor devices - Part 5-5: Optoelectronic devices - Photocouplers | EN IEC 60747-5-5 | - |

EN IEC 60079-11:2024 (E)

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|--|-----------------|-------------|
| IEC 60747-17 | - | Semiconductor devices - Part 17: Magnetic and capacitive coupler for basic and reinforced insulation | EN IEC 60747-17 | - |
| IEC 60851-5 | - | Winding wires - Test methods - Part 5: Electrical properties | EN 60851-5 | - |
| IEC 61010-1 | - | Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements | EN 61010-1 | - |
| IEC 61158-2 | - | Industrial communication networks - Fieldbus specifications - Part 2: Physical layer specification and service definition | EN IEC 61158-2 | - |
| IEC 61810-1 | - | Electromechanical elementary relays - Part 1: General and safety requirements | EN 61810-1 | - |
| IEC 62133-2 | - | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary lithium cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems | EN 62133-2 | - |
| ANSI/UL 248 | series | Standard for low-voltage fuses | - | series |
| ANSI/UL 746E | - | Polymeric Materials - Industrial Laminates, Filament Wound Tubing, Vulcanized Fibre, and Materials Used In Printed Wiring Boards | - | - |
| UL 810A | - | Standard for Electrochemical Capacitors | - | - |
| DIN VDE V 0884-11 | - | Semiconductor devices - Part 11: Magnetic and capacitive coupler for basic and reinforced isolation | - | - |

<https://standards.iteh.ai/catalog/standards/sist/b7accd14-e934-4197-86ef-57741fc6f9da/sist-en-iec-60079-11-2025>



IEC 60079-11

Edition 7.0 2023-01

INTERNATIONAL STANDARD



**Explosive atmospheres –
Part 11: Equipment protection by intrinsic safety "i"**

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