

<b>STN</b>	<b>Nízkonapäťové poistky Časť 7: Doplnkové požiadavky na tavné vložky určené na istenie batérií a batériových systémov</b>	<b>STN EN IEC 60269-7</b>  35 4701
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Low-voltage fuses - Part 7: Supplementary Requirements for fuse-links for the protection of batteries and battery systems

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 03/25

Obsahuje: EN IEC 60269-7:2024, IEC 60269-7:2021

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v znení neskorších predpisov.



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN IEC 60269-7**

December 2024

ICS 29.120.50

English Version

**Low-voltage fuses - Part 7: Supplementary Requirements for  
fuse-links for the protection of batteries and battery systems  
(IEC 60269-7:2021)**

Fusibles basse tension - Partie 7: Exigences  
supplémentaires concernant les éléments de remplacement  
utilisés pour la protection des batteries et des systèmes de  
batterie  
(IEC 60269-7:2021)

Niederspannungssicherungen - Teil 7: Zusätzliche  
Anforderungen an Sicherungseinsätze zum Schutz von  
Batterien und Batteriesystemen  
(IEC 60269-7:2021)

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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 60269-7:2024 (E)****European foreword**

The text of document 32B/700/CDV, future edition 1 of IEC 60269-7, prepared by SC 32B "Low-voltage fuses" of IEC/TC 32 "Fuses" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60269-7:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2025-06-20 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2027-12-20 document have to be withdrawn

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This document has been prepared under a standardization request addressed to CENELEC by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZZ, which is an integral part of this document.

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 60269-7:2021 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 60086-4	NOTE	Approved as EN IEC 60086-4
IEC 60364-4-41	NOTE	Approved as HD 60364-4-41
IEC 60364-4-43	NOTE	Approved as HD 60364-4-43
IEC 62485-5	NOTE	Approved as EN IEC 62485-5
IEC 62485-6	NOTE	Approved as EN IEC 62485-6
IEC 62620	NOTE	Approved as EN 62620
IEC 62932-1	NOTE	Approved as EN IEC 62932-1

## 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.cencenelec.eu](http://www.cencenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60269-1	-	Low-voltage fuses – Part 1: General requirements	EN 60269-1	2007
			+ A1	2009
			+ A2	2014
IECEE OD-5014 Ed.1	2019 <sup>1</sup>	IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System), Committee of Testing Laboratories (CTL), Instrument Accuracy Limits	-	-
ISO/IEC 17025	-	General requirements for the competence of testing and calibration laboratories	EN ISO/IEC 17025	2017

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<sup>1</sup> Dated as no EN equivalent exists.

**EN IEC 60269-7:2024 (E)****Annex ZZ**  
(informative)**Relationship between this European standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered**

This European standard has been prepared under a Commission's standardisation request relating to harmonised standards in the field of the Low Voltage Directive, M/511, to provide one voluntary means of conforming to safety objectives of Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits [2014 OJ L96].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding safety objectives of that Directive, and associated EFTA regulations.

**Table ZZ.1 — Correspondence between this European standard and Annex I of Directive 2014/35/EU [2014 OJ L96]**

Safety objectives of Directive 2014/35/EU	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
(1)(a)	Clause 6	None
(1)(b)	Clause 7.1.2, Annex E7	None
(1)(c)	See items 2 and 3 of this table	None
(2)(a)	Clause 7, 7.2, 7.9, 8.2, 8.5, 8.8	Must meet the requirements of standard 61439 and subsequent parts when installed.
(2)(b)	Clause 5.5, 5.6, 7.10, 8.3, 8.5, 8.9	None
(2)(c)	Clause 5.5, 5.6, 7.1, 7.3, 7.5, 7.11, 7.13, 7.14, 8.3, 8.5, 8.8, 8.10	None
(2)(d)	See item (2)(a) of this table	None
(3)(a)	Clause 7	None
(3)(b)	Clause 7, 8	None
(3)(c)	Clause 5.2 up to 5.8, 7.4, 7.5, 7.10, 8.3, 8.4, 8.5, 8.10	None

**WARNING 1** — Presumption of conformity stays valid only as long as a reference to this European standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

**WARNING 2** — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.



IEC 60269-7

Edition 1.0 2021-12

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Low voltage fuses –  
Part 7: Supplementary Requirements for fuse-links for the protection of batteries  
and battery systems**

**Fusibles basse tension –  
Partie 7: Exigences supplémentaires concernant les éléments de remplacement  
utilisés pour la protection des batteries et des systèmes de batterie**



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IEC 60269-7

Edition 1.0 2021-12

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Low voltage fuses –  
Part 7: Supplementary Requirements for fuse-links for the protection of  
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Partie 7: Exigences supplémentaires concernant les éléments de remplacement  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## LOW VOLTAGE FUSES –

**Part 7: Supplementary Requirements for fuse-links  
for the protection of batteries and battery systems**

## FOREWORD

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IEC 60269-7 has been prepared by subcommittee 32B: Low-voltage fuses, of IEC technical committee 32: Fuses. It is an International Standard.

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

Draft	Report on voting
32B/700/CDV	32B/709/RVC

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 part is to be used in conjunction with IEC 60269-1, *Low-voltage fuses – Part 1: General requirements*.

This Part 7 supplements or modifies the corresponding clauses or subclauses of Part 1. Where no change is necessary, this Part 7 indicates that the relevant clause or subclause of Part 1 applies.

Tables and figures which are additional to those in Part 1 are numbered starting from 101. Additional annexes are lettered AA, BB, etc.

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).

A list of all parts of the IEC 60269 series, under the general title: *Low-voltage fuses*, 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,
- replaced by a revised edition, or
- amended.

## INTRODUCTION

This document specifically supports the UN goals:

- No. 7: Affordable and clean energy
- No. 9: Industry, innovation and infrastructure
- No. 11: Sustainable cities and communities
- No. 12: Responsible consumption and communities

## LOW VOLTAGE FUSES –

### Part 7: Supplementary Requirements for fuse-links for the protection of batteries and battery systems

#### 1 General

Fuse-links for the protection of battery energy systems shall comply with all requirements of IEC 60269-1, if not otherwise indicated hereinafter, and shall also comply with the supplementary requirements laid down below.

##### 1.1 Scope and object

These supplementary requirements apply to fuse-links for the protection of batteries and battery systems, including, but not limited to terminology, for electricity storage in equipment for circuits of nominal voltages up to 1 500 V DC.

Their rated voltage can be higher than 1 500 V DC.

The object of these supplementary requirements is to establish the characteristics of battery fuse-links in such a way that they can be replaced by other fuse-links having the same characteristics, provided that their dimensions are identical.

##### 1.2 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 60269-1, *Low-voltage fuses - Part 1: General requirements*

IECEE OD-5014, *IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System), Committee of Testing Laboratories (CTL), Instrument Accuracy Limits*

ISO/IEC 17025, *General requirements for the competence of testing and calibration laboratories*

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