
Niskonapetostne varovalke – 2-1. del: Dodatne zahteve za varovalke, ki jih uporabljajo strokovne osebe (uporaba varovalk zlasti v industriji) – Razdelki od I do VI: Primeri tipov standardiziranih varovalk (IEC 60269-2-1:2004, spremenjen)

(istoveten HD 60269-2-1:2005)

Low-voltage fuses - Part 2-1: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) - Sections I to VI: Examples of types of standardized fuses (IEC 60269-2-1:2004, modified)

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English version

Low-voltage fuses
Part 2-1: Supplementary requirements for fuses for use
by authorized persons (fuses mainly for industrial application)
Sections I to VI: Examples of types of standardized fuses
(IEC 60269-2-1:2004, modified)

Fusibles basse tension
Partie 2-1: Règles supplémentaires
pour les fusibles destinés à être utilisés
par des personnes habilitées (fusibles
pour usages essentiellement industriels)
Sections I à VI: Exemples de types
de fusibles normalisés
(CEI 60269-2-1:2004, modifiée)

Niederspannungssicherungen
(NH-System)
Teil 2-1: Zusätzliche Anforderungen
an Sicherungen zum Gebrauch durch
Elektrofachkräfte bzw. elektrotechnisch
unterwiesene Personen (Sicherungen
überwiegend für den industriellen
Gebrauch)
Hauptabschnitte I bis VI: Beispiele
für genormte Sicherungstypen
(IEC 60269-2-1:2004, modifiziert)

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This Harmonization Document was approved by CENELEC on 2005-04-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document on a national level.

Up-to-date lists and bibliographical references concerning such national implementation may be obtained on application to the Central Secretariat or to any CENELEC member.

This Harmonization Document exists in three official versions (English, French, German).

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of the International Standard IEC 60269-2-1:2004, prepared by SC 32B, Low-voltage fuses, of IEC TC 32, Fuses, together with the common modifications prepared by the CENELEC Reporting Secretariat SR 32B, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as HD 60269-2-1 on 2005-04-01.

This Harmonization Document supersedes HD 630.2.1 S6:2003.

It includes the following significant technical changes:

- maintenance of section I mainly concerning fuse-links with isolated gripping lugs;
- section III rewritten to make it independent of section I;
- addition of a new size of fuse-links 8 x 32 in section III.

The following dates were fixed:

- latest date by which the existence of the HD has to be announced at national level (doa) 2005-10-01
- latest date by which the HD has to be implemented at national level by publication of a harmonized national standard or by endorsement (dop) 2006-04-01
- latest date by which the national standards conflicting with the HD have to be withdrawn (dow) 2008-04-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60269-2-1:2004 was approved by CENELEC as a Harmonization Document with agreed common modifications as given below.

COMMON MODIFICATIONS

1 General

Add the note:

NOTE The following fuse systems are standardized in respect to their safety aspects. The National Committees shall select at least one complete section of this standard for their national standards.

The time current characteristics "gD" and "gN" are only relevant for Section V.

Section I – Fuses with fuse-links with blade contacts

6.2 Marking of fuse-links

Replace the first sentence after the table by the following:

Fuse-links with isolated gripping-lugs shall be marked in a place visible at the front with the graphical symbol of a gripping-lug in a square.

7.2 Insulating properties

Add:

Insulating parts of the fuse-base supporting live parts have to pass the test at PTI 500 M according to IEC 60112 on five specimens.

8.2.6 Resistance to tracking

Replace the paragraph by the following:

The test of the fuse-links and -bases is carried out according to IEC 60112 using test solution B. Five specimens shall be tested and shall pass at PTI 500 M. Ceramic isolators need not to be tested.

8.5.5.1 Verification of the peak withstand current of a fuse-base

Add at the end of the first sentence:

... or if the minimum withdrawal forces according to 8.11 are exceeded.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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 Where an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60060-1	- ¹⁾	High-voltage test techniques Part 1: General definitions and test requirements	HD 588.1 S1	1991 ²⁾
IEC 60112	- ¹⁾	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	EN 60112	2003 ²⁾
IEC 60269-1	- ¹⁾	Low-voltage fuses Part 1: General requirements	EN 60269-1	1998 ²⁾
IEC 60269-2	- ¹⁾	Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application)	EN 60269-2	1995 ²⁾
IEC 60664-1	- ¹⁾	Insulation coordination for equipment within low-voltage systems Part 1: Principles, requirements and tests	EN 60664-1	2003 ²⁾
IEC 60999-1	- ¹⁾	Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm ² up to 35 m ² (included)	EN 60999-1	2000 ²⁾
ISO 6988	- ¹⁾	Metallic and other non organic coatings - Sulfur dioxide test with general condensation of moisture	EN ISO 6988	1994 ²⁾

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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IEC 60269-2-1

Fourth edition
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Part 2-1: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) – Sections I to VI: Examples of types of standardized fuses

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LOW-VOLTAGE FUSES –

Part 2-1: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) – Sections I to VI: Examples of types of standardized fuses

FOREWORD

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International Standard IEC 60269-2-1 has been prepared by subcommittee 32B: Low-voltage fuses, of IEC technical committee 32: Fuses.

SIST HD 60269-2-1:2006

This fourth edition of IEC 60269-2-1 cancels and replaces the third edition published in 1998, amendment 1 (1999), and amendment 2 (2002). This edition constitutes a minor revision.

The document 32B/445/FDIS, circulated to the National Committees as amendment 3, led to the publication of the new edition.

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

- addition of a new section IB "Fuse-rails"
- addition of a new section IC "Fuse-bases for busbar mounting"
- section III rewritten to make it independent of section I
- addition of a new section VI "Fuse-links with wedge tightening contacts"

The text of this standard is based on the third edition, its amendment 1, amendment 2 and on the following document:

FDIS	Report on voting
32B/445/FDIS	32B/449/RVD

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

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
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