



National Standards Authority of Ireland

IRISH STANDARD

I.S. HD 60269-2-1:2005

ICS 29.120.50

**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)**

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HARMONIZATION DOCUMENT

HD 60269-2-1

DOCUMENT D'HARMONISATION

HARMONISIERUNGSDOKUMENT

May 2005

ICS 29.120.50

Supersedes HD 630.2.1 S6:2003

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)

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).

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

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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