



SLOVENSKI STANDARD
SIST EN 60269-3:1995
01-december-1995

Low-voltage fuses - Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar application) (IEC 269-3:1987)

Low-voltage fuses -- Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications)

Niederspannungssicherungen -- Teil 3: Zusätzliche Anforderungen an Sicherungen zum Gebrauch durch Laien (Sicherungen überwiegend für Hausinstallationen und ähnliche Anwendungen)

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Fusibles basse tension -- Partie 3: Règles supplémentaires pour les fusibles destinés être utilisés par des personnes non qualifiées (fusibles pour usages essentiellement domestiques et analogues)

Ta slovenski standard je istoveten z: EN 60269-3:1995

ICS:

29.120.50	Xæ[çæ\ ^Á Ái\ * æ { ^áç \ [ç} æÁ æz ææ	Fuses and other overcurrent protection devices
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EUROPEAN STANDARD

EN 60269-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 1995

ICS 29.120.50

Descriptors: Low-voltage fuses, household applications, supplementary requirements, unskilled persons, characteristics, marking, tests

English version

Low-voltage fuses

Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications) (IEC 269-3:1987)

Fusibles basse tension
Troisième partie: Règles
supplémentaires pour les fusibles
destinés à être utilisés par des
personnes non qualifiées (fusibles pour
usages essentiellement domestiques et
analogues)
(CEI 269-3:1987)

Niederspannungssicherungen
Teil 3: Zusätzliche Anforderungen an
Sicherungen zum Gebrauch durch Laien
(Sicherungen überwiegend für
Hausinstallationen und ähnliche
Anwendungen)
(IEC 269-3:1987)

This European Standard was approved by CENELEC on 1994-12-06. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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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 269:1987, prepared by SC 32B, Low-voltage fuses, of IEC TC 32, Fuses, was submitted to the formal vote and was approved by CENELEC as EN 60269-3 on 1994-12-06 without any modification.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1995-12-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1995-12-01

For products which have complied with the relevant national standard before 1995-12-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2000-12-01.

Endorsement notice

The text of the International Standard IEC 269-3:1987 was approved by CENELEC as a European Standard without any modification.

The following editorial corrections apply to the text of IEC 269-3:1987

7.1.4 Non-interchangeability

Replace "IEC Publication 269-3A: First supplement to IEC Publication 269-3 (1973)" by "IEC Publication 269-3-1".

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NORME INTERNATIONALE INTERNATIONAL STANDARD

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Deuxième édition
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Commission Electrotechnique Internationale

International Electrotechnical Commission

Международная Электротехническая Комиссия

Fusibles basse tension

Troisième partie : Règles supplémentaires pour les fusibles
destinés à être utilisés par des personnes non qualifiées
(fusibles pour usages essentiellement domestiques et analogues)

Low-voltage fuses

Part 3 : Supplementary requirements for fuses
for use by unskilled persons
(fuses mainly for household and similar applications)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LOW-VOLTAGE FUSES

**Part 3: Supplementary requirements for fuses for use
by unskilled persons
(fuses mainly for household and similar applications)**

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

PREFACE

This standard has been prepared by IEC Sub-Committee 32B: Low-voltage Fuses, of IEC Technical Committee No. 32: Fuses.

This second edition replaces the first edition of IEC Publication 269-3 published in 1973.

The text of this standard is based on the following documents:

Six Months' Rule	Report on Voting
32B(CO)50	32B(CO)59

Further information can be found in the Report on Voting indicated in the table above.

The new edition of IEC Publication 269 is divided into the following parts:

- Part 1: General requirements (Publication 269-1).
- Second part:
- Part 2: Supplementary Requirements for Fuses for Use by Authorized Persons (Fuses Mainly for Industrial Application) (Publication 269-2)
 - Part 2-1: Examples of Types of Standardized Fuses for Use by Authorized Persons (Publication 269-2-1) (in preparation).
- Third part:
- Part 3: Supplementary Requirements for Fuses for Use by Unskilled Persons (Fuses Mainly for Household and Similar Applications) (Publication 269-3).
 - Part 3-1: Examples of Standardized Fuses for Use by Unskilled Persons (Publication 269-3-1) (in preparation).
- Part 4: Supplementary Requirements for Fuse-links for the Protection of Semiconductor Devices (Publication 269-4).

LOW-VOLTAGE FUSES

Part 3 : Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications)

EXPLANATORY NOTE

In view of the fact that this standard should be read together with IEC Publication 269-1: Low-voltage Fuses, Part 1: General Requirements, the numbering of its clauses and sub-clauses is made to correspond to the latter. Regarding the tables, their numbering also corresponds to that of IEC Publication 269-1; however, when additional tables appear, they are referred to by capital letters, for example, Table A, Table B, etc.

1. General

Fuses within the scope of the requirements of this standard shall comply with all requirements of IEC Publication 269-1, if not otherwise indicated hereinafter, and shall also comply with the supplementary requirements laid down below.

Note.— If fuses which are designed for use by unskilled persons are intended to be installed where fuses for use by authorized persons are principally installed, they should also comply with the requirements of IEC Publication 269-2: Low-voltage Fuses, Part 2: Supplementary Requirements for Fuses for Use by Authorized Persons (Fuses Mainly for Industrial Application).

1.1 Scope

These requirements apply to “gG” fuses for use by unskilled persons for domestic and similar applications with rated currents not exceeding 100 A and rated voltages not exceeding 500 V a.c. Additional specific requirements are given in IEC Publication 269-3-1: Low-voltage Fuses, Part 3: Supplementary Requirements for Fuses for Use by Unskilled Persons. Examples of Standardized Fuses for Use by Unskilled Persons (in preparation) for the fuse-systems described therein and for fuse-links primarily for use in plugs.

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1.2 Object

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The following characteristics of fuses are specified in addition to IEC Publication 269-1:

- rated voltage,
- rated power-dissipation of a fuse-link and rated power-acceptance of fuse-holders,
- time-current characteristic,
- gates, I^2t characteristics and conventional times and currents,
- rated breaking capacity,
- markings on fuse,
- standard conditions for construction,
- tests.

4. Classification

Fuses for use by unskilled persons are classified by the fuse-system to which they belong.

Examples of standardized fuse-systems for use by unskilled persons are given in IEC Publication 269-3-1.

5. Characteristics of fuses

5.2 Rated voltage

The values of the standardized rated voltages given in Table I of IEC Publication 269-1 are applicable up to and including 500 V.

5.3 Rated current

5.3.2 Rated current of the fuse-holder

The rated current of the fuse-holder is identical with the rated current of the largest fuse-link which the fuse-holder can accept under the conditions of these requirements.

Fuses used in plugs may require special current ratings to protect adequately flexible conductors.

5.3.3 Rated current of the gauge-piece

The rated current of the gauge-piece (if any) is identical with the highest rated current of the fuse-link which the gauge-piece can accept.

5.5 Rated power dissipation of a fuse-link and rated power acceptance of a fuse-holder

The rated power dissipation and rated power acceptance, respectively, are particular to fuse-systems. Values for specified fuse-systems are given in IEC Publication 269-3-1.

5.6 Limits of time-current characteristics

The standard limits for time-current characteristics based on a reference-ambient air temperature of 20°C are given in Table II and Table III of IEC Publication 269-1. Values for rated currents below 16 A are given in IEC Publication 269-3-1.

In addition to IEC Publication 269-1, conventional times and currents and gates for fuse-links without standardized rated current and for special use in plugs are given in IEC Publication 269-3-1.

5.7 Breaking range and breaking capacity

5.7.2 Rated breaking capacity

The minimum rated breaking capacities are specified in Table A.

TABLE A

Minimum rated breaking capacities

Rated voltage (U_n)	Minimum rated breaking capacity
$U_n < 240 \text{ V}$	6 kA*
$240 \text{ V} \leq U_n \leq 500 \text{ V}$	20 kA

* This value applies also to fuse-links to be used in plugs up to and including 240 V.