

**SLOVENSKI  
STANDARD**

**SIST EN 60127-2:1995**

prva izdaja  
december 1995

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Miniature fuses - Part 2: Cartridge fuse-links (IEC 127-2:1989)

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ICS 29.120.50

Referenčna številka  
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EUROPEAN STANDARD

EN 60127-2

NORME EUROPEENNE

EUROPÄISCHE NORM

March 1991

UDC 621.316.923

Supersedes HD 109.2 S1:1990

Descriptors: Miniature fuse, cartridge fuse-link, specification, rated characteristic, dimension, test

ENGLISH VERSION

MINIATURE FUSES  
PART 2: CARTRIDGE FUSE-LINKS  
(IEC 127-2:1989)



PREVZETI SU VERNIŠI PRAVILNOSTI

12-1991

Coupe-circuit miniatures  
Deuxième partie: Cartouches  
(CEI 127-2:1989)

Geräteschutzsicherungen  
Teil 2: Sicherungseinsätze  
(IEC 127-2:1989)

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This European Standard was approved by CENELEC on 1991-02-01. 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.

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 CENELEC questionnaire procedure, performed for finding out whether or not the International Standard IEC 127-2:1989, as corrected by corrigendum March 1990, could be accepted without textual changes, has shown that no CENELEC common modifications were necessary for the acceptance as European Standard. The reference document was submitted to the CENELEC members for formal vote and was approved by CENELEC as EN 60127-2 on 1 February 1991.

The following dates were fixed:

- latest date of announcement  
of the EN at national level (doa) 1991-09-01
- latest date of publication of  
an identical national standard (dop) 1992-03-01
- latest date of withdrawal of  
conflicting national standards (dow) 1992-03-01

Annexes designated "normative" are part of the body of the standard.  
In this standard, annex ZA is normative.

For products which have complied with HD 109.2 S1:1990 before 1992-03-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1997-03-01.

### ENDORSEMENT NOTICE

The text of the International Standard IEC 127-2:1989 with its corrigendum March 1990 was approved by CENELEC as a European Standard without any modification.



ANNEX ZA (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD  
WITH THE REFERENCES OF THE RELEVANT EUROPEAN PUBLICATIONS

<u>ISO</u>	<u>Publication</u>	<u>Date</u>	<u>Title</u>	<u>EN/HD</u>	<u>Date</u>
3		1973	Preferred numbers Series of preferred numbers	-	-

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NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD

CEI  
IEC  
127-2

Première édition  
First edition  
1989-06

Coupe-circuit miniatures

Deuxième partie:  
Cartouches

iTeh STANDARD PREVIEW

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Part 2:

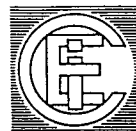
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Cartridge fuse-links

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Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

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 d04fb121e7c6/sist-en-60127-2-1995

- Standard Sheet 1: Fuse-links 5 mm × 20 mm  
Quick-acting, high-breaking capacity
- Standard Sheet 2: Fuse-links 5 mm × 20 mm  
Quick-acting, low-breaking capacity
- Standard Sheet 3: Fuse-links 5 mm × 20 mm  
Time-lag (surge-proof), low-breaking capacity
- Standard Sheet 4: Fuse-links 6,3 mm × 32 mm  
Quick-acting, low-breaking capacity
- Standard Sheet 5: Fuse-links 5 mm × 20 mm  
Time-lag (surge-proof), high-breaking capacity



## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## MINIATURE FUSES

## Part 2: Cartridge fuse-links

## 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.
- 4) The IEC has not laid down any procedure concerning marking as an indication of approval and has no responsibility when an item of equipment is declared to comply with one of its recommendations.

## iTeh STANDARD PREVIEW

## PREFACE

This standard has been prepared by Sub-Committee 32C: Miniature fuses, of IEC Technical Committee No. 32: Fuses. It forms Part 2 of IEC 127.

This Part 2 should be used in conjunction with Part 1 of IEC 127.

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

Six Months' Rule	Report on Voting	Two Months' Procedure	Report on Voting
32C(CO)47	32C(CO)52	32C(CO)57	32C(CO)59

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

*The following publication is quoted in this standard:*

ISO 3 (1973): Preferred numbers — Series of preferred numbers.

## MINIATURE FUSES

### Part 2: Cartridge fuse-links

#### INTRODUCTION

According to the wish expressed by the users of miniature fuses, all standards, recommendations and other documents relating to miniature fuses should have the same publication number in order to facilitate reference to fuses in other specifications, for example, equipment specifications.

Furthermore, a single publication number and subdivision into parts would facilitate the establishment of new standards, because clauses containing general requirements need not be repeated.

The new IEC 127 series is thus subdivided as follows:

IEC 127:	Miniature fuses (general title).
IEC 127-1, Part 1:	Definitions for miniature fuses and general requirements for miniature fuse-links. (Issued in 1988.)
IEC 127-2, Part 2:	Cartridge fuse-links.
IEC 127-3, Part 3:	Sub-miniature fuse-links.
IEC 127-4, Part 4:	Universal modular fuse-links.
IEC 127-5, Part 5:	Guidelines for quality assessment of miniature fuse-links.
IEC 127-6, Part 6:	Fuse-holders (previously IEC 257).
IEC 127-7:	(Free for further documents.)
IEC 127-8:	(Free for further documents.)
IEC 127-9, Part 9:	Test-holders and test-circuits.
IEC 127-10, Part 10:	User guide.

The second part of the complete standard covers additional requirements, test equipment and Standard Sheets.

The SI system of units is used throughout this standard.

#### SECTION ONE — ADDITIONAL REQUIREMENTS AND TEST EQUIPMENT

##### 1. Scope

This standard relates to special requirements applicable to cartridge fuse-links for miniature fuses with dimensions of 5 mm × 20 mm and 6,3 mm × 32 mm for the protection of electric appliances, electronic equipment and component parts thereof, normally intended for use indoors.

It does not apply to fuses for appliances intended to be used under special conditions, such as in corrosive or explosive atmospheres.

This standard applies in addition to the requirements of Part 1.

## 2. Object

The object of this standard is to define special and additional test methods for cartridge fuse-links applying in addition to the requirements of Part 1.

## 3. Definitions (see Part 1)

## 4. General requirements (see Part 1)

## 5. Standard ratings (see Part 1)

## 6. Marking

In addition to the requirements of Clause 6 in Part 1, the following criterion is to be observed:

6.1 In addition to the requirements of Sub-clause 6.1 in Part 1 each fuse-link shall be marked with:

e) A symbol denoting the rated breaking capacity. This symbol shall be placed between the marking for the rated current and the marking for the rated voltage.

These symbols are:

H: denoting high-breaking capacity

L: denoting low-breaking capacity

Examples of marking:

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T	3	1	5	L	2	5	0	V
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	F	4	H	2	5	0	V
--	---	---	---	---	---	---	---

6.4 The values for "d" and "s" shall be  $0,8 \pm 0,2$  mm.

## 7. General notes on tests

In addition to the requirements of Clause 7 in Part 1, the following criteria are to be observed:

7.2.1 The number of fuse-links required is 48, of which 12 are kept as spares in case some of the tests have to be repeated.

7.2.4 Schedule for testing cartridge fuse-links for miniature fuses, see Table 1, page 15.

### 7.3.1 Fuse-bases for tests

For tests that require a fuse-base for mounting the fuse-links, bases according to Figures 1, 2 or 3 shall be used as appropriate.

The contact resistance between each contact and a silvered brass piece having the same nominal dimensions and shape as the fuse-link to be tested shall not exceed 3 mΩ and is measured under the following conditions: