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Miniature fuses - Part 10: User guide for miniature fuses (IEC 60127-10:2001)

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EUROPEAN STANDARD **EN 60127-10**

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English version

Miniature fuses
Part 10: User guide for miniature fuses
(IEC 60127-10:2001)

Coupe-circuit miniatures
Part 10: Guide d'utilisation
pour coupe-circuit miniatures
(CEI 60127-10:2001)

Geräteschutzsicherungen
Teil 10: Leitfaden für die Anwendung
von Geräteschutzsicherungen
(IEC 60127-10:2001)

This European Standard was approved by CENELEC on 2002-02-01. 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, 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

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Foreword

The text of document 32C/294/FDIS, future edition 1 of IEC 60127-10, prepared by SC 32C, Miniature fuses, of IEC TC 32, Fuses, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60127-10 on 2002-02-01.

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) 2002-11-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2005-02-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60127-10:2001 was approved by CENELEC as a European Standard without any modification.

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 60127-2 + corr. March	1989 1990	Miniature fuses Part 2: Cartridge fuse-links	EN 60127-2	1991
IEC 60127-3	1988	Part 3: Sub-miniature fuse-links	EN 60127-3 [1)] + corr. June	1996 1996
IEC 60127-4	1996	Part 4: Universal Modular Fuse-links (UMF)	EN 60127-4	1996
IEC 60127-6	1994	Part 6: Fuse-holders for miniature fuse-links	EN 60127-6	1994
IEC 60269	Series	Low-voltage fuses	EN 60269	Series

1) EN 60127-3 includes A1:1991 and its corrigendum October 1994 to IEC 60127-3.

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Coupe-circuit miniatures –

Partie 10:
Guide d'utilisation pour coupe-circuit miniatures

Miniature fuses –

Part 10:
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For price, see current catalogue

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

MINIATURE FUSES –

Part 10: User guide for miniature fuses

FOREWORD

1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60127-10 has been prepared by subcommittee 32C: Miniature fuses, of IEC technical committee 32: Fuses.

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

FDIS	Report on voting
32C/294/FDIS	32C/301/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.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 3.

The committee has decided that the contents of this publication will remain unchanged until 2004. At this date, the publication will be

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

INTRODUCTION

The users of miniature fuses express the wish that 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 and subclauses containing general requirements need not be repeated.

The new IEC 60127 series is thus subdivided as follows:

IEC 60127, *Miniature fuses* (general title)

Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links

Part 2: Cartridge fuse-links

Part 3: Sub-miniature fuse-links

Part 4: Universal Modular Fuse-links (UMF)

Part 5: Guidelines for quality assessment of miniature fuse-links

Part 6: Fuse-holders for miniature cartridge fuse-links

Part 7: (Free for further documents)

Part 8: (Free for further documents)

Part 9: (Free for further documents)

Part 10: User guide for miniature fuses

MINIATURE FUSES –

Part 10: User guide for miniature fuses

1 Scope

This part of IEC 60127 relates to miniature fuses for the protection of electric appliances, electronic equipment and component parts thereof, normally intended to be used indoors, as specified in IEC 60127-2, 60127-3 and 60127-4.

This standard does not apply to fuses for appliances intended to be used under special conditions, such as in a corrosive or explosive atmosphere.

It relates to fuse-holders for miniature fuse-links according to IEC 60127-6.

The object of this guide is to introduce the user to the important properties of miniature fuse-links and fuse-holders for miniature fuses-links and to give some guidance on applying them.

NOTE 1 If the performance of IEC 60127 fuses proves inadequate, refer to IEC 60269.

NOTE 2 Fuse-links of the same type and rating may, due to differences in design, have different voltage drops and different behaviours. Therefore, in practice, they may not be interchangeable when used in applications with low-circuit voltages, especially in combination with fuse-links of lower rated currents.

NOTE 3 Contact the manufacturer for further information.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 60127. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of IEC 60127 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 60127-2:1989, *Miniature fuses – Part 2: Cartridge fuse-links*

IEC 60127-3:1988, *Miniature fuses – Part 3: Sub-miniature fuse-links*

IEC 60127-4:1996, *Miniatures fuses – Part 4: Universal Modular Fuse-links (UMF)*

IEC 60127-6:1994, *Miniature fuses – Part 6: Fuse-holders for miniature cartridge fuse-links*

IEC 60269 (all parts), *Low-voltage fuses*