

INTERNATIONAL STANDARD



**Miniature fuses –
Part 6: Fuse-holders for miniature fuse-links**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

MINIATURE FUSES –

Part 6: Fuse-holders for miniature fuse-links

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of 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, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). 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. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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This redline version of the official IEC Standard allows the user to identify the changes made to the previous edition IEC 60127-6:2014. A vertical bar appears in the margin wherever a change has been made. Additions are in green text, deletions are in strikethrough red text.

IEC 60127-6 has been prepared by subcommittee 32C: Miniature fuses, of IEC technical committee 32: Fuses. It is an International Standard.

This third edition cancels and replaces the second edition published in 2014. This edition constitutes a technical revision.

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

- a) enhanced maximum rated current from 16 A to 25 A in Clause 1;
- b) adding of IEC 60127-4 and IEC 60127-7 in Clause 1;
- c) modification of marking position in Clause 6;
- d) modification of rated voltage, rated current and rated power acceptance in Table 2;
- e) modification of Table 5, Table 6, Table 7, Table 9, Table 16 and Table A.1.

The text of this International Standard is based on the following documents:

Draft	Report on voting
32C/620/FDIS	32C/623/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

A list of all parts in the IEC 60127 series, published under the general title *Miniature fuses*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

IMPORTANT – The "colour inside" logo on the cover page of this document indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

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 and subclauses containing general requirements need not be repeated.

To this day, the IEC 60127 series, is thus subdivided as follows:

IEC 60127-1, *Miniature fuses – Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links*

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

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

IEC 60127-4, *Miniature fuses – Part 4: Universal modular fuse-links (UMF) – Through-hole and surface mount types*

IEC 60127-5, *Miniature fuses – Part 5: Guidelines for quality assessment of miniature fuse-links*

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

IEC 60127-7, *Miniature fuses – Part 7: Miniature fuse-links for special applications*

~~IEC 60127-8 (free for further documents)~~

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IEC 60127-8, *Miniature fuses – Part 8: Fuse resistors with particular overcurrent protection*

~~IEC 60127-9 (free for further documents)~~

IEC 60127-10, *Miniature fuses – Part 10: User guide for miniature fuses*

This part of IEC 60127 covers requirements, test equipment and test methods for fuse-holders. It is a self-standing document, which refers back to IEC 60127-1 with regard to certain definitions and the atmospheric conditions for test. It also makes reference to other parts of the IEC 60127 series with regard to dimensions and maximum power losses of fuse-links.

MINIATURE FUSES –

Part 6: Fuse-holders for miniature fuse-links

1 Scope

This part of IEC 60127 is applicable to fuse-holders for miniature cartridge fuse-links according to IEC 60127-2, sub-miniature fuse-links according to IEC 60127-3, universal modular fuse-links to IEC 60127-4 and miniature fuse-links for special applications to IEC 60127-7 for the protection of electric appliances, electronic equipment and component parts thereof, normally intended for use indoors.

NOTE Requirements for fuse-holders for miniature fuse-links complying with IEC 60127-4 and IEC 60127-7 are under consideration.

It does not apply to fuse holders for fuses completely covered by the subsequent parts of IEC 60269-1.

This document applies to fuse-holders with:

- a maximum rated current of ~~16~~ 25 A and
- a maximum rated voltage of 1 500 V DC or 1 000 V AC; and
- for use up to 2 000 m above sea-level, unless otherwise specified.

The object of this document is to establish uniform requirements for safety and the assessment of electrical, mechanical, thermal and climatic properties of fuse-holders and the compatibility between fuse-holders and fuse-links.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

~~IEC 60050 (all parts), International Electrotechnical Vocabulary~~

IEC 60050-441, *International Electrotechnical Vocabulary (IEV) – Part 441: Switchgear, controlgear and fuses*

IEC 60050-581, *International Electrotechnical Vocabulary (IEV) – Part 581: Electromechanical components for electronic equipment*

IEC 60068-1:2013, *Environmental testing – Part 1: General and guidance*

~~IEC 60068-2-1:2007, Environmental testing – Part 2-1: Tests – Test A: Cold~~

~~IEC 60068-2-2:2007, Environmental testing – Part 2-2: Tests – Test B: Dry heat~~

IEC 60068-2-6:2007, *Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal)*

IEC 60068-2-20:2008/2021, *Environmental testing – Part 2-20: Tests – ~~Test F~~ Tests Ta and Tb: Test methods for solderability and resistance to soldering heat of devices with leads*

IEC 60068-2-21:~~2006~~, *Environmental testing – Part 2-21: Tests – Test U: Robustness of terminations and integral mounting devices*

IEC 60068-2-27:2008, *Environmental testing – Part 2-27: Tests – Test Ea and guidance: Shock*

IEC 60068-2-45:~~1980~~, *Basic environmental testing procedures – Part 2-45: Tests – Test XA and guidance: Immersion in cleaning solvents*

~~IEC 60068-2-45:1980/AMD1:1993~~

IEC 60068-2-47:~~2005~~, *Environmental testing – Part 2-47: Test – Mounting of specimens for vibration, impact and similar dynamic tests*

IEC 60068-2-75:~~1997~~, *Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests*

~~IEC 60068-2-78:2012, Environmental testing – Part 2-78: Tests – Test Cab: Damp heat, steady state~~

~~IEC 60068-3-4:2001, Environmental testing – Part 3-4: Supporting documentation and guidance – Damp heat tests~~

~~IEC 60112:2003, Method for the determination of the proof and the comparative tracking indices of solid insulating materials~~

~~IEC 60112:2003/AMD1:2009~~

IEC 60127-1¹:2006, *Miniature fuses – Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links*

IEC 60127-1:2006/AMD1:2011

IEC 60127-1:2006/AMD2:2015

IEC 60127-2:~~2003~~, *Miniature fuses - Part 2: Cartridge fuse-links*

~~IEC 60127-2:2003/AMD1:2003~~

~~IEC 60127-2:2003/AMD2:2010~~

IEC 60127-3:~~1988~~2015, *Miniature fuses - Part 3: Sub-miniature fuse-links*

~~IEC 60127-3:1988/AMD1:1991~~

~~IEC 60127-3:1988/AMD2:2002~~

IEC 60216-1:~~2013~~, *Electrical insulating materials – Thermal endurance properties – Part 1: Ageing procedures and evaluation of test results*

IEC 60529:1989, *Degrees of protection provided by enclosures (IP Code)*

~~IEC 60529:1989/AMD1:1999~~

~~IEC 60529:1989/AMD2:2013~~

IEC 60664-1:~~2007~~2020, *Insulation coordination for equipment within low-voltage supply systems – Part 1: Principles, requirements and tests*

IEC 60695-4:2012, *Fire hazard testing – Part 4: Terminology concerning fire tests for electrotechnical products*

¹ A consolidated version of this publication exists, comprising IEC 60127-1:2006, IEC 60127-1:2006/AMD 1:2011 and IEC 60127-1:2006/AMD 2:2015.

IEC 60695-2-12:~~2010~~2021, *Fire hazard testing – Part 2-12: Glowing/hot-wire based test methods – Glow-wire flammability index (GWFI) test method for materials*
~~IEC 60695-2-12:2010/AMD1:2014~~

IEC 60695-2-13:~~2010~~2021, *Fire hazard testing – Part 2-13: Glowing/hot-wire based test methods – Glow-wire ignition temperature (GWIT) test method for materials*
~~IEC 60695-2-13:2010/AMD1:2014~~

IEC 60695-11-5:~~2004~~2016, *Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance*

IEC 60999-1:~~1999~~, *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 mm² up to 35 mm² (included)*

~~IEC 61140:2001, Protection against electric shock – Common aspects for installation and equipment~~
~~IEC 61140:2001/AMD1:2004~~

IEC 61210:~~2010~~, *Connecting devices – Flat quick-connect terminations for electrical copper conductors – Safety requirements*

~~ISO 3:1973, Preferred numbers – Series of preferred numbers~~

3 Terms and definitions

~~For the definitions of general terms used in this standard, reference should be made to IEC 60050-441, IEC 60050-581 and IEC 60664-1.~~

~~For definitions of terms relating to fuse-links, reference is made to IEC 60127-1:2006.~~

~~For the purposes of this document, the following terms and definitions apply.~~

For the purposes of this document, the terms and definitions given in IEC 60050-441, IEC 60050-581, IEC 60127-1 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

fuse-holder

combination of a fuse-base with its fuse-carrier

Note 1 to entry: In some fuse-holder constructions where the fuse-base and the fuse-carrier are not separate parts the fuse-holder may consist of only the fuse-base and no fuse-carrier.

3.1.1

fuse-base

fuse-mount

fixed part of a fuse provided with contacts and terminals for connection to the system

[SOURCE: IEC 60127-1:2006, 3.10]

3.1.2

fuse-carrier

movable part of a fuse designed to carry a fuse-link

[SOURCE: IEC 60127-1:2006, 3.12]

3.1.3

unexposed fuse-holder

fuse-holder with enclosed contacts

3.1.4

exposed fuse-holder

fuse-holder with exposed contacts

EXAMPLE Clips.

3.2

rating

characteristic values that together define the working conditions upon which the tests are based and for which the fuse-holder is designed

EXAMPLE Examples of rated values usually stated for ~~fuses~~ fuse-holders are:

- voltage (U_N);
- current (I_N);
- ~~– breaking capacity;~~
- power acceptance.

[SOURCE: IEC 60127-1:2006, 3.16]

3.3

rated power acceptance

value of power acceptance of a fuse-holder assigned by the manufacturer

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Note 1 to entry: This value is the maximum power dissipation produced by the inserted dummy fuse-link during testing, at the rated current tolerated by the fuse-holder without exceeding the specified temperatures.

Note 2 to entry: The rated power acceptance is referred to an ambient temperature of 23 °C.

3.4

rated current

value of current of a fuse-holder assigned by the manufacturer and to which the rated power acceptance is referred

3.5

rated voltage

value of voltage of a fuse-holder assigned by the manufacturer and to which operation and performance characteristics are referred

3.6

insulation coordination

mutual correlation of insulation characteristics of electrical equipment taking into account the expected micro-environment and other influencing stresses

[SOURCE: IEC 60664-1:2007/2020, 3.1.3, modified – Note 1 to entry has been removed.]

3.7

impulse withstand voltage

highest peak value of impulse voltage of ~~prescribed~~ specified form and polarity which does not cause breakdown of insulation under specified conditions