

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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 60127-5:2017 sisaldab Euroopa standardi EN 60127-5:2017 ingliskeelset teksti.	This Estonian standard EVS-EN 60127-5:2017 consists of the English text of the European standard EN 60127-5:2017.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 10.02.2017.	Date of Availability of the European standard is 10.02.2017.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 29.120.50

Standardite reprodutseerimise ja levitamise õigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonsesse süsteemi või edastamine ükskõik millises vormis või millisel teel ilma Eesti Standardikeskuse kirjaliku loata on keelatud.

Kui Teil on küsimusi standardite autorikaitse kohta, võtke palun ühendust Eesti Standardikeskusega:
Koduleht www.evs.ee; telefon 605 5050; e-post info@evs.ee

The right to reproduce and distribute standards belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without a written permission from the Estonian Centre for Standardisation.

If you have any questions about copyright, please contact Estonian Centre for Standardisation:

Homepage www.evs.ee; phone +372 605 5050; e-mail info@evs.ee

English Version

**Miniature fuses - Part 5: Guidelines
for quality assessment of miniature fuse-links
(IEC 60127-5:2016)**

Coupe-circuit miniatures - Partie 5: Lignes directrices
pour l'évaluation de la qualité des éléments de
remplacement miniatures
(IEC 60127-5:2016)

Geräteschutzsicherungen - Teil 5: Leitlinien
für die Qualitätsbewertung von G-Sicherungseinsätzen
(IEC 60127-5:2016)

This European Standard was approved by CENELEC on 2016-12-09. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

European foreword

The text of document 32C/526/FDIS, future edition 2 of IEC 60127-5, prepared by SC 32C "Miniature fuses", of IEC/TC 32 "Fuses" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60127-5:2017.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-09-09
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-12-09

This document supersedes EN 60127-5:1991.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 60127-5:2016 was approved by CENELEC as a European Standard without any modification.

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60127-1	2006	Miniature fuses - Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links	EN 60127-1	2006
+ A1	2011		+ A1	2011
+ A2	2015		+ A2	2015
IEC 60127-2	2014	Miniature fuses - Part 2: Cartridge fuse-links	EN 60127-2	2014
IEC 60127-3	2015	Miniature fuses - Part 3: Sub-miniature fuse-links	EN 60127-3	2015
IEC 60127-4	2005	Miniature fuses - Part 4: Universal modular fuse-links (UMF) - Through-hole and surface mount types	EN 60127-4	2005
+ A1	2008		+ A1	2009
+ A2	2012		+ A2	2013
IEC 60127-7	2015	Miniature fuses - Part 7: Miniature fuse-links for special applications	EN 60127-7	2016

CONTENTS

FOREWORD.....	3
INTRODUCTION.....	5
1 Scope.....	6
2 Normative references	6
3 Terms and definitions	6
4 Lot-by-lot inspection	7
4.1 Test conditions	7
4.2 Non-destructive tests	7
4.3 Destructive tests	7
4.3.1 Destructive tests for IEC 60127-2 and IEC 60127-3	7
4.3.2 Destructive tests for IEC 60127-4	8
4.3.3 Destructive tests for IEC 60127-7	8
4.4 Acceptance criteria	9
5 Periodic inspection	9
5.1 Reduced type tests for IEC 60127-2 or IEC 60127-3	9
5.2 Reduced type tests for IEC 60127-4.....	10
5.3 Reduced type tests for IEC 60127-7.....	10
Bibliography.....	12
Table 1 – Primary characteristics (inspection level II) (Samples may be returned to the lot after inspection).....	7
Table 2 (for IEC 60127-2 and IEC 60127-3) – Time/current characteristic (IEC 60127-1:2006, 9.2.1) (Inspection level S4, destructive test)	8
Table 3 (for IEC 60127-4) – Time/current characteristic (IEC 60127-1:2006, 9.2.1) (Inspection level S4, destructive test)	8
Table 4 (for IEC 60127-7) – Time/current characteristic (IEC 60127-1:2006, 9.2.1) – (Inspection level S4, destructive test)	9
Table 5 – Reduced type tests for IEC 60127-2 or IEC 60127-3	9
Table 6 – Reduced type tests for IEC 60127-4.....	10
Table 7 – Reduced type tests for IEC 60127-7	11

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 IEC 60127 series, under the general heading *Miniature fuses*, 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 fuse-links*

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

IEC PAS 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*