

Irish Standard I.S. EN IEC 60282-1:2020

High-voltage fuses - Part 1: Currentlimiting fuses

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I.S. EN IEC 60282-1:2020

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I.S. EN IEC 60282-1:2020 is the adopted Irish version of the European Document EN IEC 60282-1:2020, High-voltage fuses - Part 1: Current-limiting fuses

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EN IEC 60282-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2020

ICS 29.120.50

Supersedes EN 60282-1:2009 and all of its amendments and corrigenda (if any)

English Version

High-voltage fuses - Part 1: Current-limiting fuses (IEC 60282-1:2020)

Fusibles à haute tension - Partie 1: Fusibles limiteurs de courant (IEC 60282-1:2020)

Hochspannungssicherungen - Teil 1: Strombegrenzende Sicherungen (IEC 60282-1:2020)

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EN IEC 60282-1:2020 (E)

European foreword

The text of document 32A/347/FDIS, future edition 8 of IEC 60282-1, prepared by SC 32A "High-voltage fuses" of IEC/TC 32 "Fuses" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60282-1:2020.

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IEC 60085:2007	NOTE	Harmonized as EN 60085:2008 (not modified)
IEC 62271-100:2008	NOTE	Harmonized as EN 62271-100:2009 (not modified)
IEC 62271-100:2008/A1:2012	NOTE	Harmonized as EN 62271-100:2009/A1:2012 (not modified)
IEC 62271-100:2008/A2:2017	NOTE	Harmonized as EN 62271-100:2009/A2:2017 (not modified)
IEC 62271-103	NOTE	Harmonized as EN 62271-103
ISO 179 (series)	NOTE	Harmonized as EN ISO 179 (series)

EN IEC 60282-1:2020 (E)

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

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.

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

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60060-1	2010	High-voltage test techniques - Part 1: General definitions and test requirements	EN 60060-1	2010
IEC 60071-1	-	Insulation co-ordination - Part 1: Definitions, principles and rules	EN IEC 60071-1	-
IEC 60549	-	High-voltage fuses for the external protection of shunt capacitors	EN 60549	-
IEC 60644	-	Specification for high-voltage fuse-links for motor circuit applications	EN 60644	-
IEC 62271-105	-	High-voltage switchgear and controlgear - Part 105: Alternating current switch-fuse combinations for rated voltages above 1 kV up to and including 52 kV	-	-

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Edition 8.0 2020-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

High-voltage fuses -

Part 1: Current-limiting fuses

Fusibles à haute tension -

Partie 1: Fusibles limiteurs de courant





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Edition 8.0 2020-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

High-voltage fuses -

Part 1: Current-limiting fuses

Fusibles à haute tension -

Partie 1: Fusibles limiteurs de courant

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HIGH-VOLTAGE FUSES -

Part 1: Current-limiting fuses

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International Standard IEC 60282-1 has been prepared by subcommittee 32A: High-voltage fuses, of IEC technical committee 32: Fuses.

This eighth edition cancels and replaces the seventh edition published in 2009.

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

- additional information concerning thermally operated strikers;
- the division of ratings, characteristics and type tests into those applicable to all fuses and those applicable to particular fuse-link types and applications;
- adjustment of Series II voltages and tests to meet present North American standard system voltages and applications;
- clarification of requirements for fuse-links used in surrounding temperatures above 40 °C; and

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clarification of homogeneous requirements for fuse-links containing one element.

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

FDIS	Report on voting
32A/347/FDIS	32A/349/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 60282 series, published under the general title *High-voltage 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 "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

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

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HIGH-VOLTAGE FUSES -

Part 1: Current-limiting fuses

1 Scope

This part of IEC 60282 applies to all types of high-voltage current-limiting fuses designed for use outdoors or indoors on alternating current systems of 50 Hz and 60 Hz and of rated voltages exceeding 1 000 V.

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.

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IEC 60071-1, Insulation coordination - Part 1: Definitions, principles and rules

IEC 60549, High-voltage fuses for the external protection of shunt capacitors

IEC 60644, Specification for high-voltage fuse-links for motor circuit applications

IEC 62271-105, High-voltage switchgear and controlgear – Part 105: Alternating current switch-fuse combinations for rated voltages above 1 kV up to and including 52 kV

3 Terms and definitions

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

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

- IEC Electropedia: available at http://www.electropedia.org/
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3.1 Electrical characteristics

3.1.1

rated value

value of a quantity used for specification purposes, established for a specified set of operating conditions of a component, device, equipment, or system

Note 1 to entry: Examples of rated value usually stated for fuses: voltage, current and breaking current.

[SOURCE: IEC 60050-441:2000, 441-18-35, modified – "used for specification purposes" and "system" added, "assigned, generally by the manufacturer" deleted.]



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