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AS 60269.1—2005
IEC 60269-1, Ed.3.0 (1998)

AS 60269.1—2005

Australian Standard™

Low-voltage fuses

Part 1: General requirements

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Australian British Chamber of Commerce
Australian Electrical and Electronic Manufacturers Association
Energy Networks Association
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Low-voltage fuses

Part 1: General requirements

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PREFACE

This Standard was prepared by the Standards Australia Committee EL-007, Power Switchgear to supersede AS/NZS 60269.1:2000.

The objective of this Standard is to provide requirements to establish the characteristics of low-voltage fuses, or parts of low-voltage fuses, in such a way that they are interchangeable as far as their dimensions are concerned.

This Standard is Part 1 of a series which, when complete, will consist of the following:

AS		
60269	Low-voltage fuses	
60269.1	Part 1:	General requirements (this Standard)
60269.2.0	Part 2.0:	Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application)
60269.2.1	Part 2.1:	Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application)—Sections I to VI: Examples of types of standardized fuses
60269.3.0	Part 3.0:	Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications)
60269.3.1	Part 3.1:	Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications)—Sections I to IV: Examples of types of standardized fuses
60269.4.0	Part 4.0:	Supplementary requirements for fuse-links for the protection of semiconductor devices
60269.4.1	Part 4.1:	Supplementary requirements for fuse-links for the protection of semiconductor devices—Sections I to III: Examples of types of standardized fuse-links

This Standard is identical with, and has been reproduced from, IEC 60269-1, Ed.3.0 (1998), *Low-voltage fuses*—Part 1: *General requirements* incorporating its Corrigendum 1:2000 and Amendment 1:2005. The amendment 1 is added in anticipation of its publication in 2005.

This Standard differs from the Standard it supersedes in the following major areas:

(a) Standard is now Australian only to reflect the withdrawal of New Zealand participation in Committee EL-007.

(b) Normative references IEC 60291 and IEC 60291A have been deleted and IEC 60664-1 has been added.

(c) Definitions (Clause 2 and its subclauses) have been updated.

(d) Discrimination of fuse-links (Subclause 3.9) the second paragraph of the subclause has been replaced.

(e) The term ‘rated acceptance’ has been replaced by ‘rated acceptable power dissipation’ throughout the standard.

(f) Markings (Clause 6) has been replaced.

(g) The requirements for the suitability for isolation (Subclause 7.2) have been added.

(h) Table 13 ‘Rated impulse withstand voltage’ has been added.

(i) New subclauses ‘Clearances and creepage distances’ (Subclause 7.9.1), ‘Leakage currents of equipment for isolation’ (Subclause 7.9.2) and ‘Additional constructional requirements for fuses with non-separable fuse-carriers, suitable for isolation’ (Subclause 7.9.3) are added.

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(j) The requirements for the suitability for isolation (Subclause 8.2 and Subclause 8.2.1) have been added.

(k) The Subclauses 8.2.2 to 8.2.5.2 have been replaced.

(l) In Table 12A the first line 'power-frequency recovery voltage' has been replaced.

(m) A new Clause B.3 'Calculation of operating I^2t at reduced voltage' has been added.

As this Standard is reproduced from an International Standard, the following applies:

(i) Its number does not appear on each page of text and its identity is shown only on the cover and title page.

(ii) In the source text 'this international standard' should read 'this Australian Standard'.

(iii) A full point should be substituted for a comma when referring to a decimal marker.

(iv) Any French text on Figures should be ignored.

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