

AS 2005, Part 1—1981  
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# Australian Standard 2005, Part 1—1981

Withdrawn TAS July 1999

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## FUSES WITH ENCLOSED FUSE-LINKS (up to and including 1000 V a.c. and 1500 V d.c.) Part 1—GENERAL REQUIREMENTS

STANDARDS ASSOCIATION  
OF AUSTRALIA  
11 NOV 1981



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Australian-British Trade Association  
Bureau of Steel Manufacturers of Australia  
Confederation of Australian Industry  
Department of Defence  
Department of Productivity  
Electrical Contractors Associations of Australia  
Electricity Supply Association of Australia  
Institution of Engineers Australia  
Metropolitan Water Sewerage and Drainage Board, Sydney  
Railways of Australia Committee  
Testing Authorities

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This standard, prepared by Committee EL/6, Industrial Switchgear and Controlgear, was approved on behalf of the Council of the Standards Association of Australia on 17 August 1981, and was published on 9 November 1981.

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**AUSTRALIAN STANDARD**

**FUSES WITH ENCLOSED FUSE-LINKS  
(up to and including 1000 V a.c. and 1500 V d.c.)**

**Part 1  
GENERAL REQUIREMENTS**

**AS 2005, Part 1—1981**

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## PREFACE

This edition of this standard was prepared by the Association's Committee on Industrial Switchgear and Controlgear, to supersede AS 2005, Part 1—1977. It is Part 1 of a three-part standard for fuses with enclosed fuse-links.

The Parts of the standard are as follows:

Part 1—General Requirements

Part 2—Fuses for Industrial Application

Part 3—Fuses for Household Application

Part 1 deals with requirements common to all fuses within the scope of the standard and includes definitions, standard conditions for operation in service, fuse characteristics and marking, construction and test requirements.

This edition includes an amendment to Clause 7.2 to ensure that adequate contact pressure will be maintained for the life of the fuse and an amendment to Clause 8.5.3 covering the measurement of arc voltages required in tests 1 and 2. Other amendments to the previous edition are of an editorial nature only.

Within the standard the IEC concept of 'conventional fusing and non-fusing current' has been adopted in place of the more familiar concept of 'fusing factor'. An explanation and contrast of these concepts is included in an appendix to this Part.

The standard closely follows IEC 269-1; however some of the requirements of that publication have been modified to take account of local conditions. Where this standard deviates technically from the IEC document by way of additional or different requirements, the deviation is indicated by a rule in the margin against the clause, or part thereof, affected.

This standard requires reference to the following Australian standards:

- |          |   |
|----------|---|
| AS 1102  | Graphical Symbols for Electrotechnology<br>Part 1—General, Qualifying and Supplementary Symbols                               |
| AS 1931  | High Voltage Testing Techniques   |
| AS 1939  | Classification of Degrees of Protection Provided by Enclosures<br>for Electrical Equipment                                    |
| AS C320  | Classification of Insulating Materials for Electrical Machinery<br>and Apparatus on the Basis of Thermal Stability in Service |
| SAA MP19 | Report on Preferred Numbers and Their Use   |

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