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Australian Standard 2005, Part 3—1980

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

Part 3—FUSES FOR HOUSEHOLD AND SIMILAR APPLICATIONS

[Title allocated by Defence Cataloguing Authority:
FUSES, Enclosed Type for Household and Similar Application]

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THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Australian Electrical and Electronics Manufacturers Association

Australian-British Trade Association

Confederation of Australian Industry

Department of Defence

Department of Productivity

Electrical Contractors Associations of Australia

Electricity Supply Association of Australia

Institution of Engineers, Australia

Railways of Australia Committee

Testing Authorities

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AUSTRALIAN STANDARD

FUSES WITH ENCLOSED FUSE-LINKS

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Part 3

FUSES FOR HOUSEHOLD AND SIMILAR APPLICATIONS

AS 2005, Part 3—1980

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PREFACE

This revised standard was prepared by the Association's Committee on Industrial Switchgear and Controlgear. It is Part 3 of a three-part standard for fuses with enclosed links. The other Parts of the standard are—

Part 1—General Requirements

Part 2—Fuses for Industrial 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. Part 2 applies to fuses used in industrial applications.

Part 3 (this Part) gives specific additional requirements for fuses used in household and similar installations, and this revised edition now includes reference to a 25 A rating fuse-link.

During preparation of the standard, consideration was given to IEC 269-3, Low-voltage Fuses, Part 3—Supplementary Requirements for Fuses for Domestic and Similar Applications, and BS 1361, Cartridge Fuses for A.C. Circuits in Domestic and Similar Premises. Acknowledgement is made of the assistance received from these publications.

The standard generally follows IEC 269; 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.

The dimensions of the fuse-links and fuse-bases and the tests on the fuse-bases are based on BS 1361; however, the specified time/current characteristic zones, and the tests on the fuse-links, are based on the IEC recommendation for gII fuse-links.

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 Appendix D of Part 1.

It has not yet been possible to devise a suitable test to verify the strength of fuse-holders, but this matter is under consideration pending further work.

This standard requires reference to Part 1 and to the following Australian standards:

AS 3000	Part 1—SAA Wiring Rules
AS C100	Approval and Test Specification for Definitions and General Requirements for Electrical Materials and Equipment
AS K118	Phenolic Laminated Sheet
AS K185	Colours for Specific Purposes

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PART 3—FUSES FOR HOUSEHOLD AND SIMILAR APPLICATIONS

SECTION 1. SCOPE, APPLICATION AND OBJECT

1.1 SCOPE. This Part of this standard applies to fuses incorporating fuse-links with current ratings not exceeding 100 A and primarily intended for household and similar applications.

1.2 APPLICATION. Fuses for household and similar applications shall comply with the requirements of AS C100 and with the requirements of Part 1 if not otherwise indicated hereinafter, and shall also comply with the additional requirements specified herein.

1.3 OBJECT. The object of this Part of the standard is to specify the following requirements in addition to those listed in Clause 1.2 of Part 1:

(a) Rated voltages.
(b) Rated breaking currents.
(c) Maximum power dissipation for fuse-links and power acceptance for fuse-holders to effect interchangeability.
(d) Time/current characteristics and conventional currents.
(e) Marking.
(f) Preferred dimensions of fuse-links and fuse-holders influencing interchangeability and mounting.
(g) Constructional requirements.
(h) Test requirements.