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Australian Standard 1033—1971

HIGH-VOLTAGE EXPULSION AND SIMILAR FUSES

METRIC UNITS



STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

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

Associated Chambers of Manufactures of Australia
Australia and New Zealand Railways Conferences
Australian British Trade Association
Electricity Supply Association of Australia
The Institution of Engineers, Australia

This standard, prepared by Committee EL/7, Power Switchgear, was approved on behalf of the Council of the Standards Association of Australia on 31 December 1970.

In order to keep abreast with progress in the industries concerned, Australian standards are subject to periodical review. Suggestions for improvements, addressed to the head office of the Association, are welcomed.

This standard was issued in draft form for public review as Doc. 1453.

AUSTRALIAN STANDARD SPECIFICATION

**HIGH-VOLTAGE
EXPULSION
AND SIMILAR FUSES**

AS 1033—1971

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PREFACE

The preparation of this standard was undertaken by a subcommittee of the Association's Committee on Power Switchgear.

The standard follows substantially, both in matter and in expression, IEC Publication 282-2 and acknowledgment is made of the assistance obtained from this source. The IEC publication was examined in the light of developing Australian practice, and was amended by omission of certain requirements not considered to be applicable, by additions considered necessary in Australian practice, by editorial actions not involving change of basic meanings and by re-numbering and re-arrangement of clauses to conform with the style of Australian standards.

The standard applies to expulsion and similar types of fuses for outdoor and indoor installations, for a.c. voltages above 1000 volts. The characteristics of the fuses, and requirements in respect of all tests are enumerated in detail.

Two appendices have been included: Appendix A—Application Guide, and Appendix B—Standardization of Time/Current Characteristics and Dimensions. The latter appendix is intended to rationalize the large number of different fusing characteristics and sizes of fuse links available, and to this end, values of preferred time/current characteristics and preferred dimensions have been listed for fuse links having rated currents in a range 1.0 to 400 amperes. The preferred dimensions have been stated in metric units but have been derived from inch units in common use; it is envisaged, however, that with the general introduction of metrication in Australia, the smaller nominal dimensions given in the tables may be amended.

In the application of this standard, reference to the following standards may be necessary:

- AS C1 Standard Voltages and Frequency for A.C. Transmission and Distribution Systems
- AS C320 Classification of Insulating Materials for Electrical Machinery and Apparatus
- AS C328 High Voltage Testing Techniques
- AS C337 Insulation Co-ordination
- AS C338 Surge Diverters.

This Australian standard is one of a series in which the requirements are expressed solely in metric units. Certain new standards, including revised standards formerly expressed in imperial units, are identified by a four-digit reference without a prefix letter.

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