

AS/NZS 4898:1997
IEC 898:1995

Australian/New Zealand Standard[®]

**Approval and test specification—
Circuit-breakers for overcurrent
protection for household and similar
installations**

AS/NZS 4898:1997

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL/4, Electrical Accessories. It was approved on behalf of the Council of Standards Australia on 10 March 1997 and on behalf of the Council of Standards New Zealand on 21 February 1997. It was published on 5 June 1997.

The following interests are represented on Committee EL/4:

Australasian Railway Association
Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Consumer Electronic Suppliers Association
Electricity Supply Association of Australia
Ministry of Commerce, New Zealand
National Electrical Contractors Association of Australia
New Zealand Manufacturers Federation
Plastics and Chemicals Industry Association
Regulatory authorities (electrical)
Testing interests

Review of Standards. To keep abreast of progress in industry, Joint Australian/New Zealand Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Joint Standards and related publications will be found in the Standards Australia and Standards New Zealand Catalogue of Publications; this information is supplemented each month by the magazines 'The Australian Standard' and 'Standards New Zealand', which subscribing members receive, and which give details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Joint Standards, addressed to the head office of either Standards Australia or Standards New Zealand, are welcomed. Notification of any inaccuracy or ambiguity found in a Joint Australian/New Zealand Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

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STANDARDS AUSTRALIA
1 The Crescent,
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL/4, Electrical Accessories, to supersede, in Australia, AS 3111—1994, *Approval and test specification—Miniature overcurrent circuit-breakers*, (and any revision thereof), 10 years from date of publication; and to supersede, in New Zealand, NZS 2205.1:1968, *Specification for miniature and moulded case circuit-breakers, Part 1: Miniature air-break circuit-breakers for alternating circuits*, 12 months from date of publication.

The objective of this Standard is to provide approval and test requirements for a.c. air-break circuit-breakers for operation at 50 or 60 Hz, having a rated voltage not exceeding 440 V (between phases), a rated current not exceeding 125 A and a rated short-circuit capacity not exceeding 25 000 A.

This Standard is based on and reproduced from IEC 898:1995, *Electrical accessories—Circuit-breakers for overcurrent protection for household and similar installations*.

A number of variations to IEC 898:1995, which are necessary for Australian/New Zealand requirements, have been made in this Standard. These are listed in Annex ZZ, and are indicated throughout the text by a marginal bar set adjacent to the varied text or figure.

These variations also form the Australian/New Zealand national variations for purposes of the IECEE scheme for recognition of results of testing to standards for safety of electrical equipment (the CB scheme).

The numbering of clauses, notes and figures, closely follows those of IEC 898:1995. To allow for additional material to be introduced by Australia or New Zealand, numbers from 201 upwards are used. This scheme has been introduced to reduce the likelihood of the IEC and Australia or New Zealand using the same numbers for differing requirements.

In this Standard, the following print types are used:

- Requirements proper: in *helvetica* type.
- Test specifications: in *italic helvetica* type.
- Explanatory matters: in smaller *helvetica* type.

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

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text ‘this International Standard’ should read ‘this Australian/New Zealand Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.
- (d) References to International Standards should be replaced by references, where appropriate, to the following Australian Standards:

<i>Reference to International Standard</i>	<i>Australian Standard</i>
IEC 38 IEC standard voltages	AS 2926 Standard voltages—Alternating (50 Hz) and direct
50(441) International electrotechnical vocabulary (IEV) Chapter 441: Switchgear, controlgear and fuses	1852.441 International electrotechnical vocabulary —Switchgear, controlgear and fuses
227 Polyvinyl chloride insulated cables of rated voltages up to and including 450/750V	3147 Approval and test specification — Electric cables—Thermoplastic insulated—For working voltages up to and including 0.6/1 kV

IEC		AS	
269	Low-voltage fuses	2005	Low-voltage fuses—Fuses with enclosed fuse-links
269-1	Part 1: General requirements	2005.10	Part 10: General requirements
364	Electrical installations of buildings	3000	Electrical installations—Buildings, structures and premises (known as the SAA Wiring Rules)
364-4-4	Electrical installations of buildings Part 4: Protection for safety— Chapter 4: Protection against electric shock	—	
417	Graphical symbols for use on equipment. Index, survey and compilation of the single sheets	1104	Informative symbols for use on electrical and electronic equipment
529	Degrees of protection provided by enclosures (IP Code)	1939	Degrees of protection provided by enclosures for electrical equipment (IP Code)
695	Fire hazard testing	4695	Fire hazard testing of electrotechnical products
695-2-1	Part 2: Test methods— Section 1: Glow-wire test and guidance	4695.2.12	Part 2.12: Test methods— Glow-wire flammability test on materials
947	Low-voltage switchgear and controlgear	—	
947-2	Part 2: Circuit-breakers		
1009	Residual current operated circuit-breakers with integral overcurrent protection for household and similar use (RCBO's)	—	
1009-1	Part 1: General rules		
1009-2-1	Part 2-1: Applicability of the general rules to RCBO's functionally independent on line voltage	—	
1009-2-2	Part 2-2: Applicability of the general rules to RCBO's functionally dependent on line voltage	—	
ISO/IEC		SAA	
Guide 2	General terms and their definitions concerning standardization and related activities	HB18	Guidelines for third-party certification and accreditation.
		HB18.2	Guide 2—General terms and their definitions concerning standardization and related activities
ISO			
2039	Plastics—Determination of hardness	—	
2039/2	Part 2: Rockwell hardness		
—		AS	
		3100	Approval and test specification— General requirements for electrical equipment

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