

AS/NZS 3175.1:1994

IEC 1008-1:1990

IEC 1008-1:1990/Amd 1:1992

IEC 1008-1:1990/Corr 1:1990

Australian/New Zealand Standard

**Approval and test specification—
Residual current-operated
circuit-breakers without integral
overcurrent protection for
household and similar uses
(RCCB's)**

Part 1: General rules

[IEC title: Residual current-operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's), Part 1: General rules]

AS/NZS 3175.1:1994

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 21 July 1994 and on behalf of the Council of Standards New Zealand on 27 April 1994. It was published on 14 November 1994.

The following interests are represented on Committee EL/4:

Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Consumer Electronic Suppliers Association, Australia
Department of Public Works, N.S.W.
Electricity Supply Association of Australia
Ministry of Commerce, New Zealand
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AS/NZS 3175.1:1994

Australian/New Zealand Standard

Approval and test specification— Residual current-operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's)

Part 1: General rules

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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 on Electrical Accessories to replace, in part, AS 3190—1994, *Approval and test specification—Residual current devices (current-operated earth-leakage devices)*, as a Joint Standard. It was prepared to align Australian Approval and Test Specifications and New Zealand Standards progressively with International Electrotechnical Commission (IEC) Standards for electrical accessories.

This Standard is equivalent in technical content but not in full presentation to IEC 1008-1:1990, *Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's)*, Part 1: General rules, including Amendment 1.

A number of variations have been made in this Standard to the requirements of IEC 1008-1:1990. These variations are necessary, to take into account the national requirements for RCCB's that apply in both Australia and New Zealand. Text subject to variation is indicated throughout the text of this Standard by boxes. Beneath the boxed IEC text and indicated by a marginal bar is the Australian/New Zealand requirement.

These variations also form the Australian national variations for purposes of the IEC 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 1008-1:1990. To allow additional material to be introduced by Australia or New Zealand, the numbers 201 to 300 are used. This scheme has been introduced to reduce the likelihood of the IEC and Standards Australia or Standards New Zealand using the same numbers for different requirements.

In this Standard, the following print types are used:

- Requirements proper: in roman type;
- *Test specifications: in italic type;*
- Notes: in smaller roman type

In Australia, this Standard will replace, in part, AS 3190—1994 or any subsequent revisions of AS 3190, 10 years from publication. During this period it is anticipated that regulatory authorities will approve RCCB's to either specification. In New Zealand other standards also apply to RCCB's, including AS 3190.

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.

References to International Standards should be replaced by equivalent Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian/New Zealand Standard</i>	
IEC		AS	
38	IEC standard voltages	2926	Standard voltages—Alternating (50 Hz) and direct
50	International Electrotechnical Vocabulary (IEV)	1852	International Electrotechnical Vocabulary
50(151)	Electrical and magnetic devices	1852(151)	Electric and magnetic devices
50(441)	Switchgear, controlgear and fuses	1852(441)	Switchgear, controlgear and fuses
51	Direct acting indicating analogue electrical measuring instruments and their accessories	—	

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IEC		AS	
68-2-28	Basic environmental testing procedures Part 2: Tests—Guidance for damp heat tests	1099	Basic environmental testing procedures for electrotechnology
		1099.3	Background information
		1099.3.3	Section 3: Guidance for damp heat tests
68-2-30	Test Db and guidance: Damp heat, cyclic (12 + 12-hour cycle)	—	
364	Electrical installations of buildings	3000	Electrical installations—Buildings, structures and premises (known as the SAA Wiring Rules)
36-4-443	Part 4: Protection for safety Chapter 44: Protection against over voltages of atmospheric origin or due to switching		
364-5-53	Part 5: Selection and erection of electrical equipment Chapter 53: Switchgear and controlgear		
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)
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755	General requirement for residual current-operated protective devices	—	
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