

Australian/New Zealand Standard™

**Residual current operated circuit-
breakers without integral overcurrent
protection for household and similar
uses (RCCBs)**

**Part 1: General rules
(IEC 61008-1, Ed. 3.0 (2010) MOD)**



AS/NZS 61008.1:2011

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-004, Electrical Accessories. It was approved on behalf of the Council of Standards Australia on 5 August 2011 and on behalf of the Council of Standards New Zealand on 13 September 2011.
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The following are represented on Committee EL-004:

Australian Industry Group
Consumer Electronics Suppliers Association
Consumers Federation of Australia
Electrical Compliance Testing Association
Electrical Regulatory Authorities Council
Engineers Australia
International Accreditation New Zealand
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This Standard was issued in draft form for comment as DR AS/NZS 61008.1.

Australian/New Zealand Standard™

Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs)

Part 1: General rules (IEC 61008-1, Ed. 3.0 (2010) MOD)

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-004, Electrical Accessories, to supersede AS/NZS 61008.1:2004, *Residual current operated circuit-breakers without overcurrent protect for household and similar uses (RCCBs)—Part 1: General rules* (IEC 61008-1, Ed.2.1 (2002) MOD).

The objective of this Standard is to provide Australian and New Zealand electrical industries, manufacturers and regulatory bodies with safety requirements for residual current-operated circuit-breakers without integral overcurrent protection for household and similar uses, and which may be used as the basis for approval for sale or for connection to supply in Australia and New Zealand.

This Standard is an adoption with national modifications and has been reproduced from IEC 61008-1 Ed. 3.0 (2010)), *Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs)—Part 1: General rules* and has been varied as indicated to take account of Australian/New Zealand conditions. The modifications are specified in Appendix ZZ for the IEC CB scheme.

This Standard will exist in parallel with AS/NZS 3190, *Approval and test specification—Residual current devices (current-operated earth-leakage devices)* and any revisions thereof. Both this Standard and AS/NZS 3190 are acceptable for RCCBs. For other RCD devices refer to AS/NZS 3190.

The essential safety requirements in AS/NZS 3820, *Essential safety requirements for electrical equipment* that could be applicable to RCCBs are covered by this Standard taken in conjunction with any other relevant requirements affecting safety.

This Standard does not purport to include all the necessary conditions of a contract.

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- (a) Its number appears on the cover and title page while the international standard number appears only on the cover.
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- (c) A full point substitutes for a comma when referring to a decimal marker.

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

<i>Reference to International Standard</i>		<i>Australian/New Zealand Standard</i>	
IEC		AS	
60038	IEC standard voltages	60038	Standard voltages
60060	High-voltage test techniques	1931	High-voltage test techniques
60060-1	Part 1: General definitions and test requirements	1931.1	Part 1: General definitions and test requirements
60060-2	Part 2: Measuring systems	1931.2	Part 2: Measuring systems
60068	Environmental testing	60068	Environmental testing,
60068-2-30	Part 2-30: Tests—Test Db: Damp heat, cyclic (12 + 12 h cycle)	60068.2.30	Part 2.30: Tests—Test Db and guidance: Damp heat, cyclic (12 + 12 hour cycle)
60068-3-4	Part 3-4: Supporting documentation and guidance—Damp heat tests	60068.3.4	Part 3.4: Supporting documentation and guidance—Damp heat tests

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IEC		AS	
60112	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	60112	Method for the determination of the proof and the comparative tracking indices of solid insulating materials
60417	Graphical symbols for use on equipment	60417	Graphical symbols for use on equipment
60364	Low voltage electrical installations	AS/NZS 3000	Electrical installations (known as the Australian/New Zealand Wiring Rules)
60364-4-44	Part 4-44: Protection for safety—Protection against voltage disturbances and electromagnetic disturbances		
60364-5-53	Part 5-53: Selection and erection of electrical equipment—Isolation, switching and control		
60695	Fire Hazard testing	60695	Fire hazard testing
60695-2-10	Part 2-10: Glowing/hot-wire based test methods—Glow-wire apparatus and common test procedure	60695.2.10	Part 2.10: Glowing/hot wire based test methods—Glow-wire apparatus and common test procedure
60884	Plugs and socket-outlets for household and similar purposes	3112	Approval and test specification—Plugs and socket-outlets
60884-1	Part 1: General requirements		
61009	Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs)	61009	Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs)
61009-1	Part 1: General rules	61009.1	Part 1: General rules (IEC 61009-1, Ed.2 (2003) MOD)

Only International Standards that have been adopted as Australian or Australian/New Zealand Standards have been listed.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the annex or appendix to which they apply. A ‘normative’ annex or appendix is an integral part of a Standard, whereas an ‘informative’ annex or appendix is only for information and guidance.

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