

Australian/New Zealand Standard™

Approval and test specification— Residual current devices (current- operated earth-leakage devices)



AS/NZS 3190:2011

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 25 October 2011 and on behalf of the Council of Standards New Zealand on 3 October 2011.

This Standard was published on 21 November 2011.

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 3190.

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Originated in Australia as AS 3190—1974.
First New Zealand edition AS/NZS 3190:2002.
Previous edition AS/NZS 3190:2009.
Eighth edition 2011.

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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 3190:2009, *Approval and test specification—Residual current devices (current-operated earth-leakage devices)* 12 months from the date of publication.

This Standard will exist in parallel to the deemed to comply Standards listed in Clause 3.2.

The essential safety requirements in AS/NZS 3820, *Essential safety requirements for electrical equipment*, that could be applicable to residual current devices (current-operated earth-leakage devices) are covered by this Standard taken in conjunction with any other relevant requirements affecting safety.

The objective of this Standard is to provide Australian and New Zealand electrical industries (including manufacturers, test laboratories, installers and regulators) with electrical safety requirements and test methods for residual current devices (current-operated earth-leakage devices).

This Standard is one of a series of Approval and Test Specifications to be read in conjunction with AS/NZS 3100, *Approval and test specification—General requirements for electrical equipment*. The purpose of this series is to outline conditions that must be met to secure approval for the sale and use of electrical equipment in Australia and New Zealand. Only safety matters and related conditions are covered.

There is a general acceptance that Type III and Type IV residual current devices do not provide adequate personal protection, however, they are within the scope of this Standard.

This Standard was revised to introduce the following changes:

- (a) Revised requirements for the resistance to fire test.
- (b) The requirements for PSOAs (see Clause 2.4) have been aligned with AS/NZS 3012.
- (c) Deletion of FSE PRCDs requirements and replacement with IEC 62335 SPE-PRCD requirements (see Clause 3.2).
- (d) Changes to marking requirements and symbols including AS/NZS 3012 for PRCDs.
- (e) Revised testing requirements.
- (f) General editorial revision and correction of some minor errors.
- (g) Addition of deemed to comply standards in Clause 3.2 and guidance notes.

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

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

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