

AS 3190—1994

Australian Standard<sup>®</sup>

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

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This Australian Standard was prepared by Committee EL/4, Electrical Accessories. It was approved on behalf of the Council of Standards Australia on 29 June 1994 and published on 19 September 1994.

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The following interests are represented on Committee EL/4:

Australian Chamber of Commerce and Industry  
Australian Electrical and Electronic Manufacturers Association  
Consumer Electronics Suppliers Association, Australia  
Electricity Supply Association of Australia  
Ministry of Commerce, New Zealand  
National Electrical Contractors Association of Australia  
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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL/4 on Electrical Accessories to supersede AS 3190—1990, *Approval and test specification—Residual current devices (current-operated earth-leakage devices)*.

Under the terms of the Active Cooperation Agreement, this Standard is the result of a consensus among Australian and New Zealand representatives on the Joint Committee to produce this document as an Australian Standard. However, the publishing of a Joint Standard will be considered during the next revision.

Where there is a published Australian/New Zealand harmonized or Joint Standard referenced in this Standard, the New Zealand Standard number is given in parenthesis following the Australian Standard number.

This Standard is one of a series of Approval and Test Specifications issued by Standards Australia. These Specifications are accompanied by a general Specification AS 3100, *Approval and test specification—General requirements for electrical equipment*. The purpose of these Specifications is to outline conditions which must be met to secure approval for the sale and use of electrical equipment in Australia. Only safety matters and related conditions are covered.

This Standard was revised to introduce a number of editorial changes and the following technical changes:

- A new definition for outlet facilities.
- New requirements for outlet facilities.
- Amendment of existing and inclusion of new marking requirements.

This Standard supersedes AS 3190—1990 from date of publication. A Standard reproduced from and with the same title as IEC 1008-1:1990, *Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's)*, Part 1: *General rules*,

Part 2-1: *Applicability of the general rules to RCCB's functionally independent of line voltage*, and

Part 2-2: *Applicability of the general rules to RCCB's functionally dependent on line voltage*, will be published as AS 3175, Parts 1, 2.1 and 2.2, to replace part of AS 3190 in 10 years. During this period, it is anticipated that regulatory authorities will approve devices within the scope of AS 3175 to either AS 3190 or AS 3175.

Attention is drawn to Appendix E which details the additional requirements and tests for approval of portable residual current devices (RCDs) in New Zealand. For such compliance in New Zealand, portable RCDs are required to comply with the appropriate requirements of this Standard, except as varied by Appendix E.

It is generally accepted that Types III and IV RCDs (see Clause 5.1) do not provide adequate personal protection. However, they are within the scope of this Standard.

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An informative appendix is only for information and guidance.

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

## CONTENTS

	<i>Page</i>
1 SCOPE .....	4
2 APPLICATION .....	4
3 REFERENCED DOCUMENTS .....	4
4 DEFINITIONS .....	5
5 CLASSIFICATION .....	6
6 DESIGN AND CONSTRUCTION .....	6
7 ELECTRICAL REQUIREMENTS .....	10
8 MARKING .....	12
9 TESTS .....	14
 APPENDICES	
A REQUIREMENTS FOR TYPE I RCDS .....	26
B IMPULSE WITHSTAND TEST .....	28
C HIGH-FREQUENCY DISTURBANCE TEST .....	29
D RELIABILITY .....	32
E ADDITIONAL TESTS AND REQUIREMENTS FOR APPROVAL OF PORTABLE RCDs IN NEW ZEALAND .....	36

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