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*Amendment 1 - Nov. 1981.
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Australian Standard 3111-1980

APPROVAL AND TEST SPECIFICATION FOR MINIATURE OVERCURRENT CIRCUIT-BREAKERS



PUBLISHED BY THE STANDARDS ASSOCIATION OF AUSTRALIA
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THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL organizations or departments were officially represented on the committee entrusted with the preparation of this specification:

- Australian Chamber of Commerce
- Australian Electrical and Electronics Manufacturers Association
- Confederation of Australian Industry
- Department of Housing and Construction
- Electrical Apparatus Approvals Authorities
- Electrical Contractors Association of Australia
- Electrical Testing Laboratories
- Electricity Supply Association of Australia
- Electronic Importers Association

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Amendment No 2
March 1982

STANDARDS ASSOCIATION OF AUSTRALIA
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AMENDMENT No 2

to

AS 3111—1980

SAA Approval and Test Specification

for

MINIATURE OVERCURRENT CIRCUIT-BREAKERS

25 FEB 1982

The 1980 edition of AS 3111 is amended as follows; the amendment should be inserted in the appropriate place.

SUMMARY: The following sections of the standard is covered by this amendment: Clause 5.4. In addition a number of references to AS C100 have been changed to AS 3100.

Published on 15 March 1982.

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Amendment No 1
November 1981

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

AMENDMENT No 1

to

AS 3111—1980

Approval and Test Specification

for

MINIATURE OVERCURRENT CIRCUIT-BREAKERS

The 1980 edition of AS 3111 is amended as follows; the amendment should be inserted in the appropriate place.

SUMMARY: The following sections of the standard are covered by this amendment: Clauses 4.1 and 5.3.2.

Published on 16 November 1981.

PREFACE

This revised specification, prepared by Committee EL/2, Electrical Approvals Standards, was approved on behalf of the Council of the Standards Association of Australia on 25 August 1980, and was published on 1 November 1980.

It is one of a series of approval and test specifications issued by the Association under Part 2 of the SAA Wiring Rules. These specifications are accompanied by a general specification AS 3100 containing definitions and general requirements for electrical materials and 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 specification deals with breakers having current ratings of up to 100 A and breaking capacities up to but not including 10 kA.

This edition is technically identical with the 1974 edition except that it incorporates Amendment No 1 to that edition, which was issued in March 1979, and includes changes to the following clauses:

- Clause 3.4, in which reference is made to compliance with AS 3190.
- Clause 6.6, 2nd paragraph, in which the test tables are now as specified in Clause 8.12 (ii) of AS 3100. 3/00 SEE AMENDMENTS 2

This specification supersedes AS 3111: 1974 from date of publication.

The Association desires to call attention to the fact that this specification does not purport to include all the necessary provisions of a contract.

This specification requires reference to Australian standard approval and test specifications—

AS 3110 Earth leakage Circuit-breakers

AS 3121 Insulating mouldings

AS 3100 Definitions and General Requirements for Electrical
3/00 Materials and Equipment

and to Australian standards—

AS 2184 Moulded-case Circuit-breakers

AS 3000 Part 1, SAA Wiring Rules



STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

APPROVAL AND TEST SPECIFICATION

FOR

MINIATURE OVERCURRENT CIRCUIT-BREAKERS

This specification shall be read in conjunction with AS 3100 (Sockets and Receptacles) Clause 3, below.)

3/00
SEE AMENDMENT 2

1 SCOPE. This specification applies to miniature overcurrent air-break circuit-breakers, referred to hereinafter as 'circuit-breaker(s)', having the following characteristics:

- (a) intended for the prevention of continued overloading of electrical circuit wiring; and
- (b) have current ratings up to and including 100 A; and
- (c) have current breaking capacities up to but not including 10 kA; and
- (d) intended for use at low or medium voltages.

A circuit-breaker intended only for the protection of electrical equipment as distinct from circuit wiring, and which is appropriately marked as such, is not within the scope of this specification.

NOTES:

1. Voltages and currents referred to in this specification relate to alternating currents except where otherwise specified and values quoted are r.m.s. values.
2. Attention is drawn to AS 2184 which covers circuit-breakers having breaking capacities above 3 kA. Some moulded-case circuit-breakers with normal current ratings not exceeding 100 A may be within the scope of this approval and test specification AS 3111 and AS 2184. See Clause 5.2 herein for breaking capacity requirements.)

2 DEFINITIONS. For the purpose of this specification the following definitions apply:

- 2.1 Case**—that part of the circuit-breaker which houses the operating mechanism, tripping device and contacts. A circuit-breaker may have more than one case; e.g. a trip unit inside the main breaker case.
- 2.2 Cover**—an integral part of the case of the circuit-breaker which is removable for wiring purposes.
- 2.3 Enclosure**—a separate piece of equipment, not part of the circuit-breaker, which is designed to accommodate one or more circuit-breakers.
- 2.4 Enclosure type circuit-breaker**—a circuit-breaker which is suitable only for mounting in an enclosure.