

Amendment 1 - June 1983
Amendment 2 - March 1986

Superseded by AS 3115-1990

AS 3115-1983
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Australian Standard 3115-1983

APPROVAL AND TEST SPECIFICATION FOR MOTOR-OPERATED APPLIANCES



**PUBLISHED BY THE STANDARDS ASSOCIATION OF AUSTRALIA
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The following interests are represented on Committee EL/2:

Australian Electrical and Electronic 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 1
to
AS 3115—1983
Approval and Test Specification for
MOTOR OPERATED APPLIANCES

CORRECTION

SUMMARY: This correction applies to Clause 1.

Published on 6 June 1983.

Page 4. Clause 1.

1st paragraph, last line—alter '100 W' to '1000 W'.

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STANDARDS ASSOCIATION OF AUSTRALIA
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AMENDMENT No 2
to
AS 3115—1983
Approval and Test Specification—
MOTOR-OPERATED APPLIANCES

REVISED TEXT

The 1983 edition of AS 3115 which was amended in June 1983 is further amended as follows; the amendment should be inserted in the appropriate place.

SUMMARY: The following section of the standard is covered by this amendment: Clause 12.

Published on 3 March 1986.

Page 6. Clause 12.

Delete this clause and *substitute* the following:

12 SWITCHES. Any switch in a motor-operated appliance shall be a category 3 switch, except where it performs a safety interlocking function it shall be a category 2 switch.

This amendment forms part of the specification on publication.

X



PREFACE

This edition of this standard was prepared by the Association's Committee EL/2, Electrical Approvals Standards.

It is one of a series of approval and test specifications issued by the Association. 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 edition is technically identical with the 1980 edition and incorporates Amendments Nos 1, 2 and 3 to that edition which were issued in August 1981, and March and October 1982 respectively. These amendments included requirements for fire tests, the test for d.c. component, and the deletion of requirements for household fans which are covered by AS 3302, Particular Requirements for Electric Fans, from 1 January 1983.

This standard supersedes AS 3115—1980 from date of publication.

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

This standard requires reference to the following Australian standard approval and test specifications:

AS 3121	Insulating Mouldings
AS 3133	Air Break Switches
AS 3191	Electric Flexible Cords
AS 3100	Definitions and General Requirements for Electrical Materials and Equipment

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
APPROVAL AND TEST SPECIFICATION
FOR
MOTOR-OPERATED APPLIANCES

This specification shall be read in conjunction with AS 3100. (See also Clause 3, below.)

1 SCOPE. This specification applies to electric motor-operated appliances which are intended for operation at low or medium voltage and the largest motor of which has a rating not exceeding 100 W.

This specification does not apply to the following:

- (a) Motor-operated appliances covered by separate approval and test specifications.
- (b) Except for fan controllers and similar equipment, motor control equipment which is not incorporated in the appliance with which the motor is associated or of which it forms a part.
- (c) Separate motors.

NOTE: Table 1 contains a typical list of the types of appliance to which this specification is applicable.

TABLE 1
APPLIANCES TO WHICH THIS SPECIFICATION
APPLIES

Bench grinders	Milking machines
Cream separators	Office machines
Crushers and grinders	Polishing machines
Door opening devices	Pumps and blowers
Evaporative-type air conditioners	Rotating display stands
Fans (other than those within the scope of AS 3302)	Refrigerators (other than those within the scope of AS 3174)
Food waste disposal units	Sign flashers
Fountains	Sirens and bells
Garbage compactors	Window display devices
Ironing machines	
Machine tools (other than those within the scope of AS 3160)	

2 DEFINITIONS. For the purpose of this specification, the following definitions, which are additional to those in AS 3100, apply:

2.1 Motor-operated appliance—an appliance incorporating an electric motor or motors. The term 'motor' shall mean an electrically operated device producing rotary, linear or vibratory motion.

2.2 Maximum normal load—a load to be applied to a motor-operated appliance so that the stress imposed corresponds to that occurring under normal conditions of use, any marking of short-time or intermittent operation being observed and, unless otherwise specified, heating elements, if any, being operated as in normal use.

2.3 Unattended appliance—an appliance is considered to run unattended if it incorporates a continuously running motor or a motor under automatic control, with no person normally in attendance.

2.4 Automatic control—an appliance is considered to be controlled automatically if its sequence and period of the various operations can be preset and its whole cycle carried out and terminated automatically.

3 COMPLIANCE WITH SPECIFICATIONS.

3.1 General Requirements of AS 3100. This specification shall be read in conjunction with AS 3100, and the appropriate provisions of AS 3100 shall apply to the construction of the appliance and the insulation and/or safeguarding of parts which normally carry current.

3.2 Specific Requirements of this Specification. A motor-operated appliance shall be deemed to comply with this specification only if it complies with all the appropriate requirements of this specification and passes the relevant tests specified herein.

3.3 Requirements of Other Specifications. Equipment and components incorporated in a motor-operated appliance which are depended upon for safety shall comply with the appropriate requirements of any relevant approval and test specification unless such requirements are varied herein.

4 MEANS OF CONNECTION.

4.1 General. The means of connection for a motor-operated appliance which is normally moved whilst in operation shall comply with the requirements of Clause 4.2 below. The means of the connection for any other type of motor-operated appliance shall comply with the requirements of Clause 4.2 or 4.3, as appropriate.

4.2 Connection by Flexible Cord and Plug.

4.2.1 Flexible cord and plug. The motor-operated appliance shall be provided with a supply flexible cord and connecting plug.

The flexible cord provided with the motor-operated appliance for the purpose of connecting it to the supply shall comply with AS 3191 and—

- (a) be of a type not inferior to that specified in Table 2;
- (b) be correctly wired in accordance with the appropriate requirements of Clause 4.4 of AS 3100;
- (c) have a free length not less than specified in Table 2; and
- (d) have a conductor with a cross-sectional area of not less than 0.75 mm².

4.2.2 Connecting facilities. Facilities for the connection of the supply flexible cord shall be in accordance with the relevant requirements of Clauses 4.3 and 4.5 of AS 3100. Sealing or encapsulation may be provided subject to the conditions of Clause 3.5.1(i) and (ii) of AS 3100.

4.3 Connection to Fixed Wiring. The motor-operated appliance shall be provided with facilities for the connection of the supply conductors in accordance with the relevant requirements of Clauses 4.3 and 4.9 of AS 3100.