

1983

Australian Standard 3300—1980

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APPROVAL AND TEST SPECIFICATION FOR GENERAL REQUIREMENTS FOR HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES

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THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL ORGANIZATIONS and departments were officially represented on the committee entrusted with the preparation of this standard:

Australian Chamber of Commerce

Australian Electrical and Electronics Manufacturers Association

Confederation of Australian Industry

Electrical Apparatus Approvals Authorities

Electrical Contractors Associations of Australia

Electrical Testing Laboratories

Electricity Supply Association of Australia

Electronics Importers Association

This standard, 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.

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AMENDMENT No 5

to

AS 3300—1980

Approval and Test Specification for

**GENERAL REQUIREMENTS FOR HOUSEHOLD AND SIMILAR
ELECTRICAL APPLIANCES**

REVISED TEXT

The 1980 edition of AS 3300, which was previously amended in April and August 1981 and March and October 1982 is further amended as follows; the amendment should be inserted in the appropriate place.

SUMMARY: The following sections of the standard are covered by this amendment: Table 16.

Published on 9 May 1983.

Page 45. Table 16.

Add the following Notes:

3. In column 2, if screws greater than 5.3 mm are used it is considered that a test of 0.8 N.m is sufficient, unless varied in the particular specification.
4. In column 3, if screws greater than 6 mm are used it is considered that a test of 2.5 N.m is sufficient, unless varied in the particular specification.
5. In column 4, if screws greater than 6 mm are used it is considered that a test of 1.25 N.m is sufficient, unless varied in the particular specification.

This amendment forms part of the specification on publication.

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Amendment No 4

to

AS 3300—1980

Approval and Test Specification for
GENERAL REQUIREMENTS FOR HOUSEHOLD AND SIMILAR
ELECTRICAL APPLIANCES

REVISED TEXT

The 1980 edition of AS 3300 is amended as follows: the amendments should be inserted in the appropriate place.

SUMMARY: The following sections of the standard are covered by this amendment: Table 2 and Clause 23.6.

Published on 11 October 1982.

Page 19. Table 2.

Footnote *b*, 2nd column—*delete* the paragraph 'For totally enclosed motors ... 5°C' and *substitute*:

For totally enclosed motors the temperature rise limits for Class A, Class E, Class B, Class F, Class H and Class C may be increased by 5°C.

This amendment forms part of the specification on publication.

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Page 35. Clause 23.6.

Delete Clause 23.6 (i.e. both versions and corresponding footnotes) and *substitute*:

23.6 IDENTIFICATION OF WIRING. Where insulated or covered conductors are used as earthing conductors, they shall be coloured—

- (a) green, or
- (b) green and yellow in the proportions specified in AS 3191.

The colour green in combination with colours other than yellow shall be acceptable for live conductors, provided that the other colour covers not less than 30 percent of the surface of the conductor in any 15 mm length.

The single colour green shall not be used to identify any live conductor except—

- (i) at the discretion of the Approvals Authority where the conductor forms portion of complex wiring of equipment; or
- (ii) where it is specified by an individual approval and test specification.

This amendment forms part of the specification on publication.

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STANDARDS ASSOCIATION OF AUSTRALIA
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AMENDMENT No 3
to
AS 3300—1980
SAA Approval and Test Specification
for

GENERAL REQUIREMENTS FOR HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES

The 1980 edition of AS 3300 which was previously amended in April and August 1981 is further 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 2.2.10, 3.101, 7.12, 27.5 and 30.101 (new) and Fig. 14.

Published on 15 March 1982.

AMDT No 3 MARCH 1982
Page 6. Clause 2.2.10.

Delete existing item (b) and substitute:

- (b) **Type M attachment** which denotes a method of attachment such that the flexible cable or cord can easily be replaced, without the aid of special tools, by a special cable or cord with, for example, a moulded-on cord guard or pre-prepared method of termination.

Add the following note after item (d):

NOTE: Mouse-trap terminals are considered suitable for Type Y and Type Z attachments only.

This amendment forms part of the specification on publication.

AMDT No 3 MARCH 1982
Page 9. Clause 3.101.

Delete existing Clause 3.101 and footnote and substitute:

3.101 D.C. COMPONENT FROM A.C. APPLIANCES. Equipment shall be so designed that in normal use the value of any direct current in the equipment neutral will not contribute unduly to the failure of the installation earth electrode by corrosion.

Any device such as an isolating transformer intended to prevent direct current in the supply shall be an integral part of the equipment.

Compliance is checked by operating the equipment—

- (a) *at rated voltage, or rated wattage if specified in an individual approval and test specification;*
(b) *on a supply free from any d.c. component;*
(c) *in the maximum d.c. producing mode, if any, but not exceeding normal load;*

and measuring the d.c. component in the supply neutral caused by the equipment as described below.

If it is evident from the design of the equipment that there will be no d.c. component, this test is not conducted.

The permissible direct current in the equipment neutral shall not exceed—

- (i) *5 mA, for equipment considered as operating continuously; or*
(ii) $\frac{5 \times 24}{t}$ mA, *for other than continuously operated equipment, where t is the assessed daily average operating time, in hours.*

The maximum value of direct current permitted in the neutral is 1.44 A which could be applicable to equipment with an assessed average daily operating time of 5 min or less.

NOTES:

1. The d.c. limits specified in the individual approval and test specifications have been determined in accordance with (i) and (ii) above.
2. In the absence of an individual specification, when determining the assessed daily average operating time the Approvals Authority may accept evidence supplied by the manufacturer.
3. The d.c. peak value due to transient starting effects is not applicable.

The measuring system used to measure any direct current produced shall have a sufficiently high normal (series) mode rejection ratio, by the use of a low pass filter, if necessary, to ensure that an overall accuracy of at least 10 percent can be achieved (see Fig. 14).

This amendment forms part of the specification on 1 March 1983.

Page 13. Clause 7.12.

AMDT No 3 MARCH 1982
1st paragraph, 3rd last line—*add* the word 'active' between the words 'all' and 'poles'.

This amendment forms part of the specification on publication.

Page 44. Clause 27.5.

Add the following Note 3:

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3. For item (a) above a minimum current of 12 A is acceptable.

This amendment forms part of the specification on publication.