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AS 3309—1988



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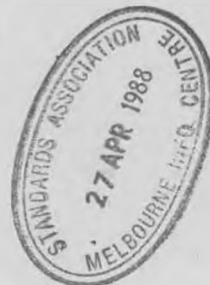
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Amdt 1.
Amdt. 2 - 1992-03-16

Australian Standard® 3309—1988

APPROVAL AND TEST SPECIFICATION— PARTICULAR REQUIREMENTS FOR ELECTRIC SEWING MACHINES



This Australian Standard was prepared by Committee EL/2, Electrical Approvals Standards. It was approved on behalf of the Council of the Standards Association of Australia on 17 December 1987 and published on 7 March 1988.

The following interests are represented on Committee EL/2:

Australian Consumers Association
Australian Electrical and Electronic Manufacturers Association
Confederation of Australian Industry
Consumer Electronics Suppliers Association
Electrical Apparatus Approvals Authorities
Electrical Testing Laboratories
Electricity Supply Association of Australia
Institution of Engineers, Australia

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STANDARDS AUSTRALIA

Amendment No. 2
to
AS 3309—1988

Approval and test specification—Particular requirements for electric sewing machines

REVISED TEXT

The 1990 edition of AS 3309 is amended as follows; the amendments should be inserted in the appropriate place.

SUMMARY: This Amendment applies to the Preface, Clauses 1.1, 3.101, 25.10 and 30.101.2, Appendices H to O and the Annex.

Published on 16 March 1992.

AMDT
No. 2
MAR.
1992

Page 2 Preface

Delete the Preface and substitute the following:

PREFACE

This Specification was prepared by the Standards Australia Committee on Electrical Approvals Standards to supersede AS 3309—1984. It was prepared to align Australian Approval and Test Specifications progressively with International Electrotechnical Commission (IEC) Standards for appliances.

This Specification closely follows IEC 335-2-28:1979, *Safety of household and similar electrical appliances, Part 2: Particular requirements for electric sewing machines*. It is to be read in conjunction with AS 3300/NZS 6300, *Approval and test specification—General requirements for household and similar electrical appliances*, and modifies the corresponding clauses of AS 3300/NZS 6300 to convert that Specification into the Australian safety standard for electric sewing machines in the following manner:

- (a) Where a particular clause of AS 3300/NZS 6300 is not referred to in this Specification, that clause of AS 3300/NZS 6300 is applicable.
- (b) Where the word 'ADDITION' is used it means that the corresponding requirement of AS 3300/NZS 6300 is added to by the requirement of this Specification.
- (c) Where the word 'REPLACEMENT' is used it means that the corresponding requirement of AS 3300/NZS 6300 is replaced by the requirement of this Specification.

Where the word 'VOID' is used it means that the requirement in IEC 335-2-28:1979 is not used in Australia. The word is also used where the deletion of a requirement would lead to consequential renumbering of references within the body of this Specification.

In this Specification the reference to AS 3300 is taken to mean AS 3300/NZS 6300. A number of variations have been made in this Specification to the text of IEC 335-2-28:1979. These variations are necessary to take into account the national requirements for electrical appliances that apply in Australia. The variations are indicated throughout the text of this Specification by marginal bars located against the changed text or figure. The majority are technical. Other variations to notes, explanatory matter, figures and references to Australian Standards and Specifications are also included for completeness.

Descriptions of these variations are to be found in the Annex to this Specification, given in the order found within the body of this Specification. These variations also form the Australian national variations for purposes of the IEC scheme for recognition of results of testing to Standards for safety of electrical equipment (the CB scheme).

The numbering of clauses and figures closely follows that of IEC 335-2-28:1979. To allow for the introduction of additional material by the IEC, the numbers 101 to 200 have been reserved. To allow for additional material to be introduced by Australia, the numbers 301 to 400 are used. This scheme has been introduced to reduce the likelihood of the IEC and Australia using the same clause or figure number for differing requirements. Where Australia has added a requirement or made a change to a particular clause of IEC 335-2-28:1979, that clause number remains unchanged.

(continued)

PREFACE (continued)

In this Specification the requirements appear in roman type, notes and explanatory matter appear in smaller roman type and tests appear in italic type.

This Specification supersedes AS 3309—1984 on publication.

This Specification incorporates Amendment Nos 1 and 2 to the 1984 edition and contains changes which more closely align it with IEC 335-2-28:1979. It has also been editorially changed to align it with the latest edition of AS 3300/NZS 6300.

This Specification requires reference to the following:

APPROVAL AND TEST SPECIFICATIONS

AS NZS

3191 — Electric flexible cords

3300 6300 General requirements for household and similar electrical appliances

This Amendment forms part of the Specification on publication.

AMDT
No. 2
MAR.
1992

Page 4 Clause 1.1

After the first paragraph, redesignate Note 4 as Note 301.

This Amendment forms part of the Specification on publication.

AMDT
No. 2
MAR.
1992

Page 4 Clause 3.101

Delete Clause 3.101 and substitute the following:

3.202 DIRECT CURRENT FROM ALTERNATING CURRENT APPLIANCES. Replace the fifth paragraph and Notes 201 and 202 with the following:
The permissible direct current in the appliance neutral shall not exceed 720 mA.

This Amendment forms part of the Specification on publication.

AMDT
No. 2
MAR.
1992

Page 7 Clause 25.10

Redesignate the Note as Note 301.

This Amendment forms part of the Specification on publication.

AMDT
No. 2
MAR.
1992

Page 8 Clause 30.101.2

Redesignate Clause 30.101.2 as Clause 30.201.2.

This Amendment forms part of the Specification on publication.

AMDT
No. 2
MAR.
1992

Page 10 Appendices

After Appendix G, add the following:

APPENDICES H TO O
(VOID)

This Amendment forms part of the Specification on publication.

AMDT
No. 2
MAR.
1992

Page 11 ANNEX

1 Delete the initial Note and substitute the following:

This Annex sets out variations between AS 3309 and IEC 335-2-28:1979. These variations indicate national variations for purposes of the IECEE CB Scheme and will be published in the IECEE CB Bulletin.

No indication is given of the variations between AS 3300/NZS 6300 and IEC 335-1. For such variations refer to AS 3300/NZS 6300.

2 Clause 1.1, line 1, after the word 'Note', insert the number '301'.

3 Redesignate Clause 3.101 as Clause 3.202.

4 Clause 25.10, delete the words 'The note' and substitute 'Note 301'.

5 After Appendix C, add 'APPENDICES H to O. Marked void.'

This Amendment forms part of the Specification on publication.

STANDARDS AUSTRALIA

Amendment No 1
to
AS 3309—1988
Approval and test specification—Particular requirements for
electric sewing machines

REVISED TEXT

The 1988 edition of AS 3309 is amended as follows; the amendment should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Appendix B.

Published on 25 January 1991.

AMDT
No 1
JAN
1991

Page 9 Appendix B

Delete the existing text and *replace* with the following:

This Appendix of AS 3300/NZS 6300 is applicable.

This Amendment forms part of the Specification on publication.

AUSTRALIAN STANDARD

**APPROVAL AND TEST
SPECIFICATION—
PARTICULAR REQUIREMENTS
FOR ELECTRIC SEWING
MACHINES**

AS 3309—1988

First published as AS 3309—1984.
(replaced AS 3171—1982 which was withdrawn in
April 1987).
Second edition 1988.

**PUBLISHED BY THE STANDARDS ASSOCIATION OF AUSTRALIA
STANDARDS HOUSE, 80 ARTHUR ST, NORTH SYDNEY, N.S.W.**

ISBN 0 7262 4874 6

PREFACE

This Standard was prepared by the Association's Committee on Electrical Approvals Standards to supersede AS 3309—1984.

It contains specific requirements for electric sewing machines and is a supplementary specification to AS 3300, *Approval and test specification—General requirements for household and similar electrical appliances* (which closely follows IEC 335-1).

The clauses of this Standard supplement or modify the corresponding clauses in AS 3300. Where the reference in the text of this Standard indicates an 'addition' or 'replacement' of the relevant requirements, tests or explanatory notes of AS 3300, these changes are made to the relevant text which then become part of the Standard. It will be observed that when no such change is necessary, the words 'this Clause of AS 3300 is applicable' are used.

This Standard closely follows IEC 335-2-28—1979, *Particular requirements for electric sewing machines*, but some of the requirements of that publication have been modified to take account of local conditions. Where the requirements of AS 3300 do not apply to electric sewing machines the words 'not applicable' are used. Where the requirements of AS 3300 are additional to the essential safety requirements presently specified in the AS 3100 series of Specifications and are not to be applied, the words 'not required' are used.

Where this Standard deviates technically from IEC 335-2-28 by way of additional or different requirements, the deviation is indicated by a rule in the margin against the clause, or part thereof, affected. Editorial and other minor changes such as the reference to Australian Standards in notes are not indicated. An annex to the Standard lists the variations from IEC 335-2-28—1979.

This edition was published to incorporate Amendments No 1 and No 2 (published 3 March 1986 and 6 April 1987 respectively) and to effect changes to the following:

Clause 1.1—Note with regard to attended appliances added.

Clause 24.3—Requirements for switch categories added.

Amendment No 1—Contained changes to Clause 30 and added Appendices F and G.

Amendment No 2—Contained changes to Clause 25.6.

This Standard will supersede AS 3309—1984 from the date of publication.

This Standard requires reference to the following Australian Standard Approval and Test Specifications:

AS 3191 *Electric flexible cords*

AS 3300 *General requirements for household and similar electrical appliances.*

See Amdt. 2 (new text)

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

APPROVAL AND TEST SPECIFICATION—
PARTICULAR REQUIREMENTS FOR ELECTRIC SEWING MACHINES

1. SCOPE

This Clause of AS 3300 is applicable except as follows:
REPLACEMENT. Replace Clause 1.1 with the following:

1.1 SCOPE AND APPLICATION. This Specification applies to electric sewing machines and to electrical sets for mounting on sewing machines with incomplete electrical equipment or without electrical equipment.

NOTES:

1. Sewing machines not intended for normal household use, but which nevertheless may be a source of danger to the public, such as sewing machines intended to be used by laymen in shops and in light industry, are within the scope of this Standard.
 2. This Specification does not apply to appliances designed exclusively for industrial or commercial purposes.
 3. Additional requirements for non-resistive controllers and for sewing machines and electrical sets incorporating semiconductor devices are under consideration.
- (Amdt. 2) 301. For the purpose of this Specification sewing machines are considered to be attended appliances.

2. DEFINITIONS

This Clause of AS 3300 is applicable except as follows:
REPLACEMENT. Replace Clause 2.2.30 with the following:

2.2.30 Normal load denotes the load obtained when the sewing machine is operated at full speed and without thread and fabric and with the presser foot in its lifted position. If the stitch length and the zig-zag stitch width can be manually adjusted, they are adjusted to their maximum values; if, however, the adjustment can be obtained by operating automatic devices, these devices are operated if this results in a higher load than that obtained with the maximum manual settings.

Spool winding devices are disengaged and lighting fittings are switched on.

ADDITION. Add the following new definition:

2.2.101 Electrical set denotes an assembly comprising a motor and its controller, this assembly being intended for mounting on a sewing machine with incomplete electrical equipment or without electrical equipment.

NOTE: An electrical set may also incorporate lighting fittings which are electrically connected to a component of the electrical set and mechanically fixed to the motor or intended to be fixed to the sewing machine.

3. GENERAL REQUIREMENTS

This Clause of AS 3300 is applicable except as follows:
REPLACEMENT.

3.101 D.C. COMPONENT FROM A.C. APPLIANCES. Replace paragraph 5 and Notes 1 and 2 with the following:

The permissible direct current in the equipment neutral shall not exceed 720 mA.

3.202 (see Amdt. 2)

4. GENERAL NOTES ON TESTS

This Clause of AS 3300 is applicable except as follows:
ADDITION.

4.2 SAMPLING. Add the following new Note 6.

6. Electrical sets are tested together with the sewing machine specified in the instruction sheet that gives the most unfavourable results.

Clauses 4.8 and 4.12 are not applicable.

ADDITION. Add the following new clause:

4.101 PORTABLE APPLIANCES. Sewing machines normally used on a table are tested as portable appliances.

5. RATING

This Clause of AS 3300 is applicable.

6. CLASSIFICATION

This Clause of AS 3300 is applicable.

7. MARKING

This Clause of AS 3300 is applicable except as follows:
Clause 7.1, Items (h) and (m) are not applicable.
ADDITION.

7.1 GENERAL. Add the following:

Sewing machines and electrical sets shall be marked with the maximum rated input of any lamp in watts.

The motor and the controller of electrical sets shall be marked with:

- (i) Rated voltage in volts.
- (ii) Rated frequency or rated frequency range, in hertz, unless designed for d.c. only.
- (iii) Rated current in amperes.