

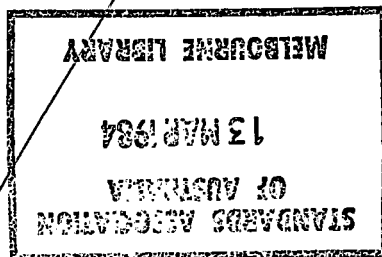
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Amend. 1.—1986
Amend. 2—1987

APPROVAL AND TEST SPECIFICATION FOR PARTICULAR REQUIREMENTS FOR ELECTRIC SEWING MACHINES



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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 13 January 1984 and published on 1 March 1984.

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

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STANDARDS ASSOCIATION OF AUSTRALIA
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AMENDMENT No 1
to
AS 3309—1984
Approval and Test Specification—
PARTICULAR REQUIREMENTS FOR ELECTRIC SEWING MACHINES

REVISED TEXT

The 1984 edition of AS 3309 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: Clause 30 and Appendices F and G.

Published on 3 March 1986.

AMDT
No 1
MAR.
1986

Page 8. Clause 30.

Delete the following:

‘Clauses 30.1 and 30.2 are not required.’

Delete Clause 30.101 and *substitute* the following:

30.101.2 Glow-wire tip temperature and duration of test.

Item (a)—replace ‘As specified in the individual approval and test specification’ with ‘750 °C for 30 s’.

Item (b)—replace ‘As specified in the individual approval and test specification’ with ‘650 °C for 30 s’.

This amendment forms part of the specification on publication.

AMDT
No 1
MAR.
1986

Appendix F:

Add the following new Appendix F:

APPENDIX F

MOTORS NOT ISOLATED FROM THE SUPPLY MAINS AND
HAVING BASIC INSULATION NOT DESIGNED FOR THE RATED
VOLTAGE OF THE APPLIANCE

This Appendix of AS 3300 is applicable.

This amendment forms part of the specification on publication.

AMDT
No 1
MAR.
1986

Appendix G.

Add the following new Appendix G:

APPENDIX G

CIRCUIT FOR MEASURING LEAKAGE CURRENTS

This Appendix of AS 3300 is applicable.

This amendment forms part of the specification on publication.

STANDARDS ASSOCIATION OF AUSTRALIA
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AMENDMENT No 2
to
AS 3309—1984
Approval and Test Specification—
PARTICULAR REQUIREMENTS FOR
ELECTRIC SEWING MACHINES

REVISED TEXT

The 1984 edition of AS 3309 which was amended in March 1986 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 25.6.

Published on 6 April 1987.

AMDT
No 2
APR.
1987

Page 8. Clause 25.6.

Delete '2.7 m' and substitute '1.8 m'.

This amendment forms part of the specification on publication.

PREFACE

This standard was prepared by the Association's Committee on Electrical Approvals Standards.

It contains specific requirements for electric sewing machines and is a supplementary specification to AS 3300, Approval and Test Specification for 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, Particular Requirements for Electric Sewing Machines; however, some of the requirements of that publication have been modified to take account of local conditions. 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.

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. An annex to the standard lists the variations from IEC 335-2-28. It should be noted that there are variations between AS 3300 and IEC 335-1 (see AS 3300 for such information), which must also be taken into account.

Preparation of this standard was undertaken to progressively align Australian approval and test specifications and IEC standards for appliances.

This standard will supersede AS 3171—1982 two years after the date of publication. However, during the two-year period before withdrawal of AS 3171 while the two standards are concurrent for the same appliance, it is anticipated that regulatory authorities will approve appliances to either standard.

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.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard APPROVAL AND TEST SPECIFICATION FOR 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.

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.

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.
- (iv) Maker's or responsible vendor's name, trademark or identification mark.
- (v) Maker's model or type reference.

Electrical sets shall be marked with the rated speed of the motor in revolutions per minute.

Clauses 7.2 and 7.3 are not applicable.

ADDITION.

7.10 POSITIONS OF REGULATING DEVICES AND SWITCHES. Add the following:

This requirement does not apply to switches operating lamps only, or to motor speed controllers.

NOTE: Motor speed controllers are not considered to be regulating devices.

ADDITION.

7.11 ADJUSTABLE DEVICES. Add the following new Note 2:

2. Motor speed controllers are not considered to be adjustable devices.