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APPROVAL AND TEST SPECIFICATION— ELECTRIC ROTARY CLOTHES DRYERS FOR HOUSEHOLD USE



PUBLISHED BY THE STANDARDS ASSOCIATION OF AUSTRALIA
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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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PREFACE

This standard was prepared by 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 was published to incorporate into the specification Amendment Nos 1 to 4 to AS 3185—1981 and to effect changes to Clauses 15 and 19.8 with regard to new requirements for switches and fire tests: Also a list of referenced documents has been added to Clause 1 and a Note with regard to the Standards Mark added to Clause 16.

This specification supersedes AS 3185—1981 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.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

APPROVAL AND TEST SPECIFICATION—
ELECTRIC ROTARY CLOTHES DRYERS FOR HOUSEHOLD USE

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

1 SCOPE AND REFERENCED DOCUMENTS.

1.1 Scope. This specification applies to electric clothes dryers, as defined in Clause 2.1, which are designed for operation at low or medium voltage and are intended for use in the drying of household textile material which has been previously washed in a water solution.

The specification also applies to electric washing machines which provide for a rotary drying cycle as described in Clause 2.1, and to electric rotary clothes dryers incorporated as part of combination washer/dryer units. It does not apply to combination gas/electric rotary clothes dryers.

1.2 Referenced documents. The following approval and test specifications are referred to in this standard:

- AS 3100 Definitions and General Requirements for Electrical Materials and Equipment
- AS 3109 Appliance Couplers for Household and Similar General Purposes
- AS 3121 Insulating Mouldings
- AS 3133 Air Break Switches
- AS 3145 Radio Interference Suppression Devices
- AS 3161 Thermostats and Energy Regulators
- AS 3191 Electric Flexible Cords

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

2.1 Electric rotary clothes dryer—an electrical appliance primarily intended for household use and designed principally for drying water-washed household textile materials by the circulation of heated air over and through such materials while they are caused to tumble freely during the process.

NOTE: Throughout the specification an electric rotary clothes dryer is referred to as a 'dryer'.

2.1.1 Automatic dryer—a dryer in which the sequence and period of the various operations can be pre-set and the 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 that specification shall apply to the construction of the dryer and the insulation and safeguarding of parts which normally carry current.

3.2 Specific requirements of this specification. A dryer 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, the function of which is likely to give rise to a hazard, incorporated in a dryer, shall comply with the appropriate specification unless such requirements are varied herein.

4 MEANS OF CONNECTION.

4.1 General. A dryer intended for connection to a plug socket by means of a flexible cord and plug shall comply with the requirements of Clause 4.2.

A dryer intended for connection to fixed wiring shall comply with the requirements of Clause 4.3.

4.2 Connection by flexible cord.

4.2.1 Flexible cord and connecting plug. Where required by Clause 4.4 of AS 3100, the dryer shall be provided with a supply flexible cord and connecting plug.

Any flexible cord provided with a dryer for the purpose of connecting it to the supply shall—

- (a) be of a type not inferior to an ordinary duty sheathed type in accordance with AS 3191;
- (b) be correctly wired in accordance with the appropriate requirements of Clause 4.4 of AS 3100; and
- (c) have a free length of not less than 1.8 m.

4.2.2 Connecting facilities. A clothes dryer intended for connection by means of a flexible cord shall be provided with one of the following means of connection to the supply:

- (a) Type C appliance plug and appliance inlet socket complying with AS 3109. The inlet socket shall be located or shielded so as to be protected from any spillage which may occur in the normal use of the dryer.
- (b) A power supply cord which shall be assembled with the appliance by one of the following methods:

- Type X attachment.
- Type M attachment.
- Type Y attachment.

4.3 Permanent connection. A clothes dryer intended for connection to fixed wiring shall be provided with terminals in accordance with Clauses 4.3 and 4.9 of AS 3100.

5 EARTHING. Where not provided with double insulation (see Clause 6), the dryer shall comply with the relevant requirements of Clause 5.3 of AS 3100 and the earthing terminal shall be marked in accordance with Clause 7.4 of AS 3100.

The metal sheath of any enclosed-type heating unit shall be regarded as exposed metal where the sheath or water in contact therewith can be touched by the standard test finger during normal use of the dryer.

The dryer shall be capable of passing the earthing connection test prescribed in Clause 19.1 herein.