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Australian Standard 3150—1982

APPROVAL AND TEST SPECIFICATION FOR INSECT ELECTROCUTORS

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Represented on the committee which was responsible for the preparation of this standard were the following:

Australian Consumers Association

Australian Electrical and Electronic Manufacturers Association

Confederation of Australian Industry

Electrical Apparatus Approvals Authorities

Electrical Testing Laboratories

Electricity Supply Association of Australia

Electronics Importers Association

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STANDARDS ASSOCIATION OF AUSTRALIA
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AMENDMENT No 1
to
AS 3150—1982
Approval and Test Specification for
INSECT ELECTROCUTORS

REVISED TEXT

The 1982 edition of AS 3150 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 4.2, Clause 5, (new) Clause 14.14.

Published on 9 May 1983.

Page 4. Clause 4.2.

Alter 'Clause 14.14' to 'Clause 14.15'.

This amendment forms part of the specification 6 months after publication.

AMDT No 1 MAY 1983

Page 4. Clause 5.

Item *(a)—*alter* 'Clause 14.19' to 'Clause 14.20'.
Item (f)—*alter* 'Clause 14.18' to 'Clause 14.19'.

These amendments form part of the specification 6 months after publication.

AMDT No 1 MAY 1983

Page 7. New Clause 14.14.

After Clause 14.13, *add* the following new clause:

14.14 Leakage Current Test. Immediately following the test of Clause 14.13, a leakage current test shall be carried out in accordance with Clause 8.3.2 of AS 3100.

Renumber Clauses 14.14 to 14.19 inclusive as 14.15 to 14.20 inclusive.

This amendment forms part of the specification 6 months after publication.

AMDT No 1 MAY 1983

PREFACE

This edition of this specification, prepared by Committee EL/2, Electrical Approvals Standards, was approved on behalf of the Standards Association of Australia on 22 February 1982, and was published on 24 May 1982.

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 1978 edition except that it incorporates changes to the following clauses:

*Clause 5—relates to addition of fire test
Clauses 7.3 and 7.4—modify requirements for connection
†Clause 14.19—adds fire test
‡Clause 14.20—adds test for d.c. component

This specification supersedes AS 3150—1978 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.

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

AS 3100	Definitions and General Requirements for Electrical Materials and Equipment
AS 3133	Air Break Switches
AS 3191	Electric Flexible Cords
AS C168	Fluorescent Lamp Ballasts

and to the following Australian standard:

AS 1939	Classification of Degrees of Protection Provided by Enclosures for Electrical Equipment.

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*This change forms part of the specification on 1 January 1983.
†This Clause forms part of the specification on 1 January 1983.
‡This Clause forms part of the specification on 1 March 1983.

STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
APPROVAL AND TEST SPECIFICATION
FOR
INSECT ELECTROCUTORS

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

1 SCOPE. This specification applies to insect electrocutors, suitable for connection to low voltage supply and intended to provide a secondary high voltage for the destruction of insects.

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

2.1 Insect electrocutor—an appliance designed to destroy insects by means of a high voltage discharge.

2.2 Grid—the component of the insect electrocutor which, under operating conditions, has a high voltage applied to it.

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 insect electrocutor and the insulation and safeguarding of parts which normally carry current.

3.2 Specific Requirements of this Specification. An insect electrocutor shall be deemed to comply with this specification only if it complies with all the requirements of this specification and passes the tests specified herein.

3.3 Requirements of Other Specifications. Components incorporated in an insect electrocutor 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 SECONDARY VOLTAGE AND CURRENT.

4.1 Voltage. The insect electrocutor shall not have a secondary voltage in excess of 7000 V peak, when measured in accordance with Clause 14.11.

4.2 Current. The insect electrocutor shall not have a secondary current in excess of 30 mA r.m.s, when measured in accordance with Clause 14.14.15 SEE AMENDMENTS No 1

5 ENCLOSURE. The enclosure of the insect electrocutor shall comply with the following requirements:

(a) It shall be of non-ignitable material of adequate mechanical strength.

*(a) It shall comply with the requirements of Clause 14.19.20 SEE AMENDMENTS No 1

(b) If not of inherently corrosion-resisting material it shall be protected against corrosion both internally and externally.

(c) Unless marked in a legible and indelible manner 'SUITABLE FOR INDOOR USE ONLY', it shall be designed to prevent the ingress of water in accordance with the requirements of AS 1939 for Classification IPX3.

(d) It shall be provided with means of attachment of mounting of adequate mechanical strength to support the device as a whole.

(e) Doors, covers and guards shall be securely fixed in place, and where these are required to be frequently removed in service, the means of fixing shall be such as will not readily deteriorate under such conditions. Self-tapping screws and the like are not acceptable for such conditions.

(f) The grid shall be protected by a guard consisting of not less than 2.5 mm round steel, or its equivalent, and shall be of robust construction. The areas of any opening in the guard shall not exceed 1000 mm² and the guard shall be capable of complying with Clause 14.18.19 SEE AMENDMENTS The guard shall be fitted in such a manner as will prevent contact of the standard test finger with the grid.

NOTE: Guards may be constructed of non-metallic material, provided that the requirements of Clause 14.18 are satisfied.

6 REMOVABLE TRAY. The surface of any removable tray provided to facilitate the collection and removal of insects shall be insulated or the tray should be manufactured of insulating material. The tray shall be so mounted as to prevent accidental contact with the grid.

With the tray partially or completely removed it shall not be possible for the standard test finger to contact the grid.

7 MEANS OF CONNECTION.

7.1 Arrangement of Input and Output Conductors. The means of connection shall be so arranged that the input and output conductors enter the transformer enclosure through separate openings.

7.2 Cord Anchorage. Every insect electrocutor shall be provided with facilities for the anchorage of a flexible cord or cable appropriate to its current rating, in accordance with the relevant requirements of AS 3100.

7.3 Connection Facilities. The insect electrocutor shall be provided with one of the following means of connection to the supply:

*This item (a) supersedes the existing item (a) on 1 January 1983.