Superseded by AS/NZS 3191:1993

AS 3197—1990

Australian Standard®

Approval and test specification—Portable electrical control or conditioning devices

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STANDARDS AUSTRALIA

This Australian Standard was prepared by Committee EL/4, Electrical Accessories. It was approved on behalf of the Council of Standards Australia on 1 May 1990 and published on 6 August 1990.

The following interests are represented on Committee EL/4:

Australian Electrical and Electronic Manufacturers Association

Confederation of Australian Industry

Department of Public Works, N.S.W.

Electrical Contractors Association of Australia

Electricity Supply Association of Australia

Plastics Industry Association

Railways of Australia Committee

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Approval and test specification—Portable electrical control or conditioning devices

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PREFACE

This Standard was prepared by the Standards Australia Committee on Electrical Accessories to supersede AS 3197—1980.

It is one of a series of Approval and Test Specifications issued by the organization. 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 Standard was revised to align the switching and protection requirements with AS 3105, *Approval and test specification—Electrical portable outlet devices,* and to encompass devices with a control or conditioning function, rather than the former switching or control function only.

Typical examples of devices having a control or conditioning function are those which incorporate energy regulators, speed controllers, timing devices, photo-electric devices, devices actuated by sound or radio frequency, devices actuated by signals or impulses generated remotely by manual or automatic means, movement detectors, lighting dimmers, temperature sensitive devices, overcurrent protection devices of either the manual or automatically resetting type, voltage/frequency conditioning devices, and filtering devices.

This Specification supersedes AS 3197—1980 (including Amendment Nos 1 to 5) from date of publication, with the exception of the indicated passages in Clause 5.1.

Standards Australia points out that this Specification does not purport to include all the necessary provisions of a contract.

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Approval and test specification—Portable electrical control or conditioning devices

1 SCOPE. This Specification specifies essential safety requirements for portable electrical control or conditioning devices as defined in Clause 4 below, which are designed for operation at low voltage and which have a maximum operating current not exceeding 20 A.

Typical examples of devices having a control or conditioning function are those which incorporate energy regulators, speed controllers, timing devices, photo-electric devices, devices actuated by sound or radio frequency, devices actuated by signals or impulses generated remotely by manual or automatic means, movement detectors, lighting dimmers, temperature sensitive devices, overcurrent protection devices of either the manual or automatically resetting type, voltage/frequency conditioning devices and filtering devices.

Plugs complying with AS 3112, cord extension sockets complying with AS 3120, socket-outlet adaptors complying with AS 3122 and cord extension sets complying with AS 3199, which incorporate control or conditioning functions are within the scope of this Specification.

This Specification does not apply to the following:

(a) Control or conditioning devices which are incorporated in an appliance.

(b) Portable residual current (earth-leakage) devices within the scope of AS 3190.

(c) Portable devices incorporating voltage transformation within the scope of AS 3108.

(d) Appliance connectors incorporating control facilities within the scope of AS 3109.

(e) Plugs complying with AS 3112, cord-extension sockets complying with AS 3120 and socket-outlet adaptors complying with AS 3122 which incorporate indicating devices, e.g. neons, light-emitting diodes;

(f) Plugs complying with AS 3112 incorporating fuses.

(g) Electrical portable outlet devices complying with AS 3105.

NOTE: Thermostats and energy regulators of the self-contained type but intended for independent mounting are within the scope of AS 3161.

2 APPLICATION.

2.1 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 control device and the insulation and safeguarding of parts which normally carry current.

2.2 Specific requirements of this Specification. A control device shall be deemed to comply with this Specification only if it complies with all the requirements of this Specification and passes the relevant tests specified herein.

2.3 Requirements of other Specifications. Equipment and components incorporated in a control device which are depended upon for safety, shall comply with the appropriate Specification unless such requirements are varied herein.

3 REFERENCED DOCUMENTS. The documents below are referred to in this Standard.

STANDARDS

AS
3000 SAA Wiring Rules

APPROVAL AND TEST SPECIFICATIONS

AS
3100 Definitions and general requirements for electrical materials and equipment

3105 Electrical portable outlet devices

3108 Isolating transformers and safety isolating transformers

3109 Appliance couplers for household and similar general purposes
3109.1 Part 1: General requirements

3111 Miniature overcurrent circuit-breakers

3112 Plugs and socket-outlets