

AS/NZS 3129.1:1993

Australian/New Zealand Standard

**Approval and test specification—
Electric fence energizers**

**Part 1: Safety requirements for
mains-operated electric fence
energizers**

AS/NZS 3129.1:1993

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL/2, Electrical Approvals Standards. It was approved on behalf of the Council of Standards Australia on 15 June 1993 and on behalf of the Council of Standards New Zealand on 30 July 1993. It was published on 11 October 1993.

The following interests are represented on Committee EL/2:

Australian Chamber of Commerce and Industry
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Electrical regulatory authorities
Electrical Supply Association of Australia
Electrical test laboratories
Electricity Supply Association, New Zealand
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Part 1: Safety requirements for mains-operated electric fence energizers

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PREFACE

This Specification was prepared by the Joint Australian/New Zealand Standards Committee EL/2 on Electrical Approvals Standards to supersede AS 3129—1989 in Australia and NZS 6203.1:1987 in New Zealand. It was prepared to align Australian approval and test specifications and New Zealand Standards progressively with International Electrotechnical Commission (IEC) Standards for appliances.

This Specification is issued as a Joint Standard under the terms of the Active Cooperation Agreement between Standards Australia and Standards New Zealand, with the objective of reducing technical barriers to trade between the two nations.

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This Specification is reproduced from IEC 1011:1989, *Electric fence energizers—Safety requirements for mains-operated electric fence energizers* including Amendment 1.

A number of variations have been made in this Specification to the requirements of IEC 1011:1989. These variations are necessary, to take into account the national requirements for electrical fence energizers that apply in both Australia and New Zealand. Text subject to variation is indicated throughout the text of this Specification by boxes. Beneath the boxed IEC text and indicated by a marginal bar is the Australian/New Zealand requirement.

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 1011:1989. To allow for the introduction of additional material by the IEC, the numbers 1 to 100 have been reserved. Clauses numbered from 101 are used by the IEC to add to the body of the Specification by the appendices. To allow additional material to be introduced by Australia or New Zealand, the numbers 201 to 300 are used. This scheme eliminates the possibility of the IEC and Australia or New Zealand using the same Clause or Figure number for differing requirements. The use of the word VOID indicates that the IEC requirement is not used in Australia or New Zealand. The word is also used where the deletion of a particular requirement such as a Table would lead to the consequential renumbering of references within the body of the Specification. Where Australia and New Zealand has added a requirement or made a change to a particular Clause of IEC 1011 that Clause number remains unchanged.

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

This Specification will supersede AS 3129—1989 in Australia and NZS 6203.1:1987 in New Zealand two years from publication.

Reference to IEC or ISO publications should be replaced by reference to Australian Standards as follows:

<i>Reference to International Standard or other Publication</i>		<i>Australian Standard</i>	
60	High-voltage test techniques	1931	High voltage testing techniques
60-1	Part 1: General definitions and test requirements	1931.1	Part 1: General definitions, test requirements, test procedures and measuring devices

60-2	Part 2: Test procedures	1931.1	Part 1: General definitions, test requirements, test procedures and measuring devices
60-3	Part 3: Measuring devices	1931.1	Part 1: General definitions, test requirements, test procedures and measuring devices
60-4	Part 4: Application guide for measuring devices	1931.2	Part 2: Application guide for measuring devices
61	Lamp caps and holders together with gauges for the control of interchangeability and safety	—	
61-1	Part 1: Lamp caps	—	
65	Safety requirements for mains operated electronic and related apparatus for household and similar general use	3250	Approval and test specification—Mains operated electronic and related equipment for household and similar general use
68	Environmental testing	1099	Basic environmental testing procedures for electrotechnology
68-2-3	Test Ca: Damp heat, steady state	1099.1 1099.2 1099.2.3	Part 1: General Part 2: Tests Part 2.3: Test Ca—Damp heat, steady state
68-2-11	Test Ka: Salt mist	1099.2Ka	Part 2Ka: Salt mist
83	Plugs and socket-outlets for domestic and similar general use	3112	Approval and test specification—Plugs and socket-outlets
85	Thermal evaluation and classification of electrical insulation	2768	Electrical insulating materials—Evaluation and classification based on thermal endurance
112	Method for determining the comparative and proof tracking indices of solid insulating materials under moist conditions	—	
127	Cartridge fuse-links for miniature fuses	—	
227	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	3191	Approval and test specification—Electric flexible cords
238	Edison screw lampholders	3140	Approval and test specification—Edison-type screw lampholders
245	Rubber insulated cables of rated voltages up to and including 450/750 V	3191	Approval and test specification—Electric flexible cords
320	Appliance couplers for household and similar general purposes	3109 3109.1	Approval and test specification—Appliance couplers for household and similar general purposes Part 1: General requirements

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