

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Amendment No. 3
to
AS/NZS 60335.2.76:2003
Household and similar electrical appliances – Safety –
Part 2.76: Particular requirements for electric fence energizers

REVISED TEXT

The 2003 edition of AS/NZS 60335.2.76 is amended as follows;

SUMMARY: This amendment applies to Contents, Foreword, Introduction, Clauses 2, 3, 5, 6, 7, 11, 14, 16, 18, 19, 22, 24, 25, 28, 29, Figure 101, Annexes and Annex ZZ.

Published on 25 October 2013

Approved for publication in Australia on behalf of the Council of Standards Australia on 2 October 2013

Approved for publication in New Zealand by the Standards Council of New Zealand on 20 September 2013

This amendment takes effect two years from the date of publication.

Contents

Replace the title of Clause 3 but not the clause number, by the following:

Terms and definitions

Replace the title of Clause 28 but not the clause number, by the following:

Screws and connections

FOREWORD

Replace the second paragraph by the following:

This Standard incorporates Amendment No. 1 (October 2006), Amendment 2 (April 2011) and Amendment No. 3 (October 2013). The changes required by the amendments are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected. Where an application date other than immediate is applicable to an amendment the date of application (DOA) and the date of withdrawal (DOW) if relevant, is indicated by the marginal bar against the part affected.

Replace the fourth paragraph by the following:

This Standard is an adoption with national modifications and contains the full text of the second edition of IEC 60335-2-76, *Household and similar electrical appliances – Safety - Part 2-76: Particular requirements for electric fence energizers* and its amendment 1 (2007) and amendment 2 (2013) and has been varied as indicated to take account of Australian and New Zealand conditions. It is to be used in conjunction with the latest edition of AS/NZS 60335.1, *Household and similar electrical appliances – Safety - Part 1: General requirements* and its Amendments. It was established on the basis of AS/NZS 60335.1:2002.

In the 7th, 13th and 14th paragraphs replace “2.1” by “2.2”

ISBN 978-1-74342-608-1

Introduction

Replace the fifth paragraph by the following:

When a part 2 standard does not include additional requirements to cover hazards dealt with in Part 1, Part 1 applies.

NOTE 1 This means that the technical committees responsible for the part 2 standards have determined that it is not necessary to specify particular requirements for the appliance in question over and above the general requirements.

This standard is a product family standard dealing with the safety of appliances and takes precedence over horizontal and generic standards covering the same subject.

NOTE 2 Horizontal and generic standards covering a hazard are not applicable since they have been taken into consideration when developing the general and particular requirements for the IEC 60335 series of standards. For example, in the case of temperature requirements for surfaces on many appliances, generic standards, such as ISO 13732-1 for hot surfaces, are not applicable in addition to Part 1 or part 2 standards.

2 Normative references

Add the following new references

IEC 60335-2-29,	<i>Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers</i>	AS/NZS 60335.2.29
IEC 61204-7	<i>Low-voltage power supplies, d.c. output - Part 7: Safety requirements</i>	
IEC 61558-2-16,	<i>Safety of transformers, reactors, power supply units and similar products for voltages up to 1 100 V - Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units</i>	AS/NZS 61558.2.16,
ISO 3864-1,	<i>Graphical symbols — Safety colours and safety signs — Part 1: Design principles for safety signs and safety markings</i>	

3 Definitions

Replace the title of Clause 3 but not the clause number, by the following:

Terms and definitions

3.1.6 *Delete the addition to this subclause.*

3.106 *In the term definition, delete “separate”.*

3.107 *Replace the term definition by the following:*

battery-operated energizer suitable for connection to the mains consisting of an impulse generating circuit intended to be powered by a battery, or a separate supply unit, with a

energizer is in operation. The impulse generating circuit or the battery may be connected to a separate **battery charger** for recharging the battery when the **energizer** is in operation.

Note 1 to entry Examples of separate supply units are power supply units and uninterruptible power supplies.

5 General conditions for the tests

5.8.1 Replace first two paragraphs of the addition by the following:

*For **energizers** where the supply terminals for connection of a battery have no indication of polarity, the more unfavourable polarity shall be applied.*

Replace the third paragraph of the addition by the following:

*For **energizer** tests that require a connection to the mains supply, the reference source impedance of the mains supply shall be $0,4 \Omega + j0,25 \Omega$.*

6 Classification

6.2 Add the following to the addition as a new sentence.

This requirement does not apply to separate supply units of **type D energizers**.

7 Marking and instructions

7.1 In the first paragraph replace “symbol 1641 of ISO 7000” by “symbol ISO 7000-0790 (2004-01)”.

Replace the third paragraph by the following:

Battery-operated energizers shall be marked with the symbol for “connection to mains-operated equipment prohibited” or with the substance of the following warning:

WARNING: Do not connect to mains-operated equipment including battery chargers

The rules for a prohibition sign in ISO 3864-1, except for colours, apply to the symbol for “connection to mains-operated equipment prohibited”.

A **Type D Energizer** shall be marked with symbol IEC 60417-6181 (2013-04) and the references of the separate supply units that may be used to supply the impulse generating circuit.

7.6 Delete the “dangerous voltage symbol” and its associated text.

Replace [symbol 5017 of IEC 60417] by [symbol IEC 60417-5017 (2006-08)].

Replace the last paragraph by the following:

The symbols for output (Fence) and output (Earth) shall be in accordance with symbols IEC 60417-5036 (2002-10) and IEC 60417-5017 (2006-08) respectively.

Add the following:



[symbol IEC 60417-6181 (2013-03)]

separate supply unit



connection to mains-operated
equipment prohibited