

Australian/New Zealand Standard™

High-voltage switches

**Part 1: Switches for rated voltages
above 1 kV and less than 52 kV
(IEC 60265-1:1998, MOD)**



Standards Australia



STANDARDS
NEW ZEALAND
Te Ara Raukawa

AS/NZS 60265.1:2001

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-007, Power Switchgear. It was approved on behalf of the Council of Standards Australia on 20 August 2001 and on behalf of the Council of Standards New Zealand on 24 August 2001. It was published on 17 October 2001.

The following interests are represented on Committee EL-007:

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Australian/New Zealand Standard™

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Part 1: Switches for rated voltages above 1 kV and less than 52 kV (IEC 60265-1:1998, MOD)

Originated as AS C339—1967.
Previous edition AS 1025.1—1984.
Jointly revised and redesignated as AS/NZS 60265.1:2001.

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Jointly published by Standards Australia International Ltd, GPO Box 5420, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 4110 X

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-007, Power Switchgear, to supersede AS 1025.1—1984.

The objective of this Standard is to establish requirements for general purpose, limited purpose and special purpose switches used in distribution systems.

This Standard is Part 1 of a two-Part Standard which, when complete, will consist of the following:

AS/NZS

60265 High-voltage switches

60265.1 Part 1: Switches for rated voltages above 1 kV and less than 52 kV (This Standard)

60265.2 Part 2: High-voltage switches for rated voltages of 52 kV and above

Requirements for high-voltage switches greater than 52 kV in Australia are currently given in AS 1025.2 *High-voltage a.c. switchgear and controlgear—Switches and switch-disconnectors* Part 2: *For rated voltages of 52 kV and above*. AS 1025.2 will be redesignated AS/NZS 60265.2 at its next revision.

This Standard is an adoption, with national modifications, and has been reproduced from, IEC 60265-1:1998, *High-voltage switches—Part 1: Switches for rated voltages above 1 kV and less than 52 kV*, including Corrigendum:2000 and has been varied as indicated to take account of Australian/New Zealand conditions.

Australian/New Zealand variations include the introduction of type testing, upon agreement between the manufacturer and user, for partial discharge, dielectric dissipation factor and radio interference voltage; routine testing, upon agreement between manufacturer and user, for partial discharge and dielectric dissipation factor; an Australian/New Zealand annex listing items to be agreed between the purchaser and the user; and an Annex ZZ which summarizes these variations.

Variations to IEC 60265-1:1998 are indicated at the appropriate places throughout this Standard. Strikethrough (~~example~~) identifies IEC tables, figures and passages of text which, for the purposes of this Australian/New Zealand Standard, are deleted. Where Australian/New Zealand tables, figures or passages of text are added, each is set in its proper place and identified by shading (**example**).

The provisions of AS/NZS 2650, *Common specifications for high-voltage switchgear and controlgear standards* are applicable to this Standard, where specifically called for. Clauses and subclauses thus applicable, as well as tables and figures are identified by reference to IEC 60694.

This Standard differs from AS 1025.1—1984 in the following areas:

- (a) General requirements and ratings.
- (b) Design and construction.
- (c) Type and routine tests.
- (d) Selection of switches for service and information to be given with tenders.
- (e) Operation and safety.

A reference to an International Standard identified in the Normative References Clause by strikethrough (~~example~~) is replaced by a reference to the Australian or Australian/New Zealand Standard(s) listed immediately thereafter and identified by shading (**example**). Where the struck-through referenced document and the referenced Australian or Australian/New Zealand Standard are identical, this is indicated in parenthesis after the title of the latter.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text 'this standard' should read 'this Australian/New Zealand Standard'.
- (c) A full point should be substituted for a comma when referring to a decimal marker.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the annex to which they apply. A 'normative' annex is an integral Part of a Standard, whereas an 'informative' annex is only for information and guidance.

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Any IEC table, figure or passage of text that is struck-through is not Part of this Standard. Any Australian/New Zealand table, figure or passage of text that is added (and identified by shading) is part of this Standard.

1 General**1.1 Scope**

This Part of IEC 60265 is applicable to three-phase, alternating current switches and switch-disconnectors having making and breaking current ratings, for indoor and outdoor installations, for rated voltages above 1 kV and less than 52 kV and for rated frequencies from $16\frac{2}{3}$ Hz up to and including 60 Hz.

This standard is also applicable to the operating devices of these switches and to their auxiliary equipment.

Switch-disconnectors are also covered by IEC 60129.

General principles and provisions of this standard may also be applicable to single pole switches intended for application in single-phase systems. The requirements for dielectric tests and making and breaking tests should be in accordance with the requirements of the specific application.

NOTE 1 –Except where special clarification is required, the term “switch” is used to refer to all kinds of switches and switch-disconnectors within the scope of this standard.

NOTE 2 –Earthing switches are not covered by this standard. Earthing switches forming an integral Part of a switch are covered by IEC 60129.

NOTE 3 –This standard is not applicable to switching devices attached as an accessory to a high-voltage fuse assembly or its mounting and operated by opening and closing the fuse assembly.

1.2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this Part of IEC 60265. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this Part of IEC 60265 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

References to International Standards that are struck through in this Clause are replaced by references to equivalent Australian or Australian/New Zealand Standards that are listed immediately thereafter and identified by shading. Any Australian or Australian/New Zealand Standard that is identical to the International Standard it replaces is appropriately identified.