AS 1025.2—1989
IEC 265-2 (1988)

Australian Standard®

High-voltage a.c. switchgear and controlgear—Switches and switch-disconnectors

Part 2: For rated voltages of 52 kV and above

[IEC title: High-voltage switches, Part 2: High-voltage switches for rated voltages of 52 kV and above]
[Title allocated by Defence Cataloguing Authority: SWITCHGEAR AND CONTROLGEAR, ELECTRICAL (Switches and Switchgear, a.c., 52 kV and above)]

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Australian British Chamber of Commerce

Australian Electrical and Electronic Manufacturers Association

Confederation of Australian Industry

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PREFACE

This Standard was prepared by Standards Australia's Committee on Power Switchgear.

Together with AS 1025.1, this Standard completes the replacement of AS 1025–1979.

The parts are arranged as follows:

Part 1: For rated voltages above 1 kV and less than 52 kV (AS 1025.1)
Part 2: For rated voltages of 52 kV and above (AS 1025.2)

This Standard has been reproduced from, and including the technical deviations shown in Appendix A, is technically equivalent to IEC 265-2 (1988), *High-voltage switches, Part 2: High-voltage switches for rated voltages of 52 kV and above*.

Where this Standard deviates technically from IEC 265-2 the IEC text affected is marked with a rule in the margin and is replaced by amendments shown in Appendix A.

Statements in mandatory terms in Notes to tables are deemed to be requirements of this Standard.

The page numbers of the IEC English text are given at the bottom left hand corner of each page of this Standard.

Cross-references to IEC Publications should be replaced by references to Australian Standards as follows:

Reference to international Standard		*Australian Standard*	
IEC		AS	
50(441)	International electrotechnical vocabulary (IEV), Chapter 441: Switchgear, controlgear and fuses	1852(441)	International electrotechnical vocabulary—Switchgear, control gear and fuses
56	High-voltage alternating-current circuit-breakers.	2006	High voltage a.c. switchgear and controlgear—Circuit-breakers for rated voltages above 1000 V
59	IEC standard current ratings	—	
71-1	Insulation co-ordination Part 1: Terms, definitions, principles and rules	1824	Insulating coordination (phase-to-earth) and phase-to-phase, above 1 kV) Part 1: Basic principles, standard insulation levels and test procedures
129	Alternating current disconnectors (isolators) and earthing switches	1306	High voltage a.c. switchgear and controlgear—Disconnectors (isolators) and earthing switches
137	Bushings for alternating voltages above 1000 V	1265	Bushings for alternating voltages above 1000 V

270	Partial discharge measurements	1018	Partial discharge measurements
694	Common clauses for high-voltage switchgear and controlgear Standards	2650	High voltage a.c. switchgear and controlgear—Common requirements.

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STANDARDS AUSTRALIA

Australian Standard

High-voltage a.c. switchgear and controlgear—Switches and switch-disconnectors

Part 2: For rated voltages of 52 kV and above

1. **Scope**

This standard is applicable to three-phase alternating-current switches, having making and breaking current ratings, for indoor and outdoor installations, for rated voltages 52 kV and above; and for rated frequencies up to and including 60 Hz.

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

Notes *1.* — Switches for gas insulated switchgear are covered by this standard.

2. — Switches having a disconnecting function and called switch-disconnectors are also covered by IEC Publication 129.

3. — Earthing switches are not covered by this standard. Earthing switches forming an integral part of a switch are covered by IEC Publication 129.

1.101 *Object*

The main object of this standard is to establish requirements for switches used in transmission and distribution systems. General-purpose switches for this application shall comply with the following service applications:

— carrying rated normal current continuously;

— carrying short-circuit currents for a specified time;

— switching of mainly active loads;

— switching of no-load transformers;

— switching of the charging current of unloaded cables, overhead lines or busbars;

— switching of closed-loop circuits;

— making short-circuit currents.

A further object of this standard is to establish requirements for limited-purpose and special-purpose switches used in transmission and distribution systems.

Limited-purpose switches shall comply with one or more of the service applications indicated above.

Special-purpose switches may comply with one or more of the service applications indicated above and, in addition, shall be suitable for one or more of the following applications:

— switching single capacitor banks;

— switching back-to-back capacitor banks;

— switching shunt reactors including secondary or tertiary reactors switched from the primary side of the transformer;

— applications requiring an increased number of operating cycles;

— switching under earth fault conditions in systems with isolated neutral or in resonant earthed systems.