

Australian Standard™

**High voltage switchgear and controlgear  
Part 102: Alternating current  
disconnectors and earthing switches  
(IEC 62271-102, Ed.1.0(2003) MOD)**



This Australian Standard was prepared by Committee EL-007, Power Switchgear. It was approved on behalf of the Council of Standards Australia on 20 July 2005.

This Standard was published on 21 September 2005.

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The following are represented on Committee EL-007:

Australian British Chamber of Commerce  
Australian Electrical and Electronic Manufacturers Association  
Energy Networks Association  
Engineers Australia  
Testing interests (Australia)

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AS 62271.102—2005

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Part 102: Alternating current  
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## PREFACE

This Standard was prepared by the Standards Australia Committee EL-007, Power Switchgear, to supersede AS 1306—1985, *High voltage a.c. switchgear and controlgear—Disconnectors (isolators) and earthing switches* and AS 4298—1995, *Gas-insulated metal-enclosed switchgear for rated voltages 72.5 kV and above—Requirements for switching of bus-charging currents by disconnectors*.

The objective of this Standard is to provide requirements for alternating current disconnectors and earthing switches, designed for indoor and outdoor enclosed and open terminal installations for voltages above 1000 V.

This Standard is an adoption with national modifications and has been reproduced from IEC 62271-102, Ed.1.0 (2003), *High-voltage switchgear and controlgear – Part 102: Alternating current disconnectors and earthing switches*, and has been varied as indicated to take account of Australian conditions.

Variations to IEC 62271-102, Ed.1.0 (2003) are indicated at the appropriate places throughout this standard. Strikethrough (~~example~~) identifies IEC text, tables and figures which, for the purposes of this Australia Standard, are deleted. Where text, tables or figures are added, each is set in its proper place and identified by shading (**example**). Added figures are not themselves shaded, but are identified by a shaded border.

This Standard should be read in conjunction with AS 2650 to which it refers and which is applicable, unless otherwise specified. In order to simplify the indication of corresponding requirements, the same numbering of clauses and subclauses is used as in AS 2650. Additional subclauses are numbered from 101.

### Common numbering of standards falling under the responsibility of EL-007

In accordance with the decision taken by the committee EL-007 a common numbering system will be established in order to align the numbering of Australian Standards falling under the responsibility of EL-007 with IEC standards. All high-voltage switchgear and controlgear Standards will, at their next revision (or as equivalent Standards become available in IEC), become parts of the AS 62271 (High-voltage switchgear and controlgear) series. The table below gives the relationship between future numbering and existing Standard numbers. Standards current at the time of publication of this Standard are marked with an asterisk (\*).

AS 62271 Series	High-voltage switchgear and controlgear	Old AS Number
1	Common specifications	*AS 2650
100*	High-voltage alternating current circuit-breakers	AS 2006
102*	Alternating current disconnectors and earthing switches	AS 1306 and AS 4298
103	Switches for rated voltages above 1 kV and less than 52 kV	*AS/NZS 60265.1
104	Switches for rated voltages of 52 kV and above	*AS 60265.2
106	Alternating current contactors and contactor based motor-starters	*AS 2024
110	Inductive load switching	*AS 4372
200*	AC metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV	AS 2086
201	AC insulation-enclosed switchgear and controlgear for rated voltages above 1 kV up to and including 38 kV	*AS 2264
202	High-voltage/low-voltage prefabricated substations	*AS 61330

<b>AS 62271 Series</b>	<b>High-voltage switchgear and controlgear</b>	<b>Old AS Number</b>
203*	Gas-insulated metal enclosed switchgear for rated voltages above 52 kV	AS 2263
301*	Dimensional standardization of terminals	AS 2395
303	Use and handling of sulphur hexafluoride (SF <sub>6</sub> ) in high-voltage switchgear and controlgear	*AS 2791
304	Additional requirements for enclosed switchgear and controlgear from 1 kV to 72,5 kV to be used in severe climatic conditions	*AS 4243
308*	Guide for asymmetrical short-circuit breaking test duty T100a	—

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