

AS 62271.1—2012
IEC 62271-1, Ed.1.1 (2011)

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Australian Standard[®]

**High-voltage switchgear and
controlgear**

Part 1: Common specifications



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The following are represented on Committee EL-007:

- Australian British Chamber of Commerce
 - Australian Industry Group
 - Energy Australia
 - Energy Networks Association
 - Engineers Australia
 - University of New South Wales
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High-voltage switchgear and controlgear

Part 1: Common specifications

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PREFACE

This Standard was prepared by the Standards Australia Committee EL-007, Power Switchgear to supersede AS 2650—2005, *Common specifications for high-voltage switchgear and controlgear standards (IEC 60694, Ed.2.2 (2002) MOD)*.

The objective of this Standard is to state those specifications common to high-voltage switchgear and controlgear within the scope of the Standard.

This Standard applies to all high-voltage switchgear and control gear except as otherwise specified in the relevant high-voltage switchgear and controlgear standards for the particular type of switchgear and controlgear.

This Standard is identical with, and has been reproduced from, IEC 62271-1, Ed.1.1 (2011), *High-voltage switchgear and controlgear—Part 1: Common specifications*. This is a consolidated edition that consists of the first edition (2007) and its amendment 1 (2011). Amended text is indicated by marginal bars.

Common numbering of Standards falling under the responsibility of EL-007

In accordance with the decision taken by 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 the 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 AS 62271 numbering and original Standard numbers. Standards current at the time of publication of this Standard are marked with an asterisk (*).

AS 62271 series part number	High-voltage switchgear and controlgear	Previous AS number
100*	High-voltage alternating-current circuit-breakers	AS 2006
102*	Alternating current disconnectors and earthing switches	AS 1306
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
105	Alternating current switch-fuse combinations	*AS 2024
106	Alternating current contractors and contractor-based motor-starters	*AS 60470
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 2264
201*	AC insulation-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV	AS 2264
202*	High-voltage/low-voltage prefabricated substations	AS 61330
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 ₆) 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 climactic conditions	*AS 4243
308*	Guide for asymmetrical short-circuit breaking test duty T100a	—

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

- (a) Its number appears on the cover and title page while the International Standard number appears only on the cover.
- (b) In the source text ‘this part of IEC 62271’ should read ‘this part of AS 62271’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

Only normative references in the source document that have been adopted as Australia or Australia/New Zealand have been listed as follows:

<i>Reference to International Standard</i>		<i>Australian or Australian/New Zealand Standard</i>	
IEC		AS	
60038	IEC Standard voltages	60038	Standard voltages
60068	Environmental testing	60068	Environmental testing
60068-2	Part 2: Tests (all parts)	60068.2	Part 2: Tests (all parts)
60269	Low voltage fuses	60269	Low voltage fuses
60269-2	Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application)	60269.2	Part 2: Supplementary requirements for fuses for use by authorized persons (fuses for industrial application)
60270	High-voltage test techniques—Partial discharge measurements	60270	High-voltage test techniques—Partial discharge measurements
60417	Graphical symbols for use on equipment	60417	Graphical symbols for use on equipment
60947	Low-voltage switchgear and controlgear	60947	Low-voltage switchgear and controlgear
60947-2	Part 2: Circuit-breakers	60947.2	Part 2: Circuit breakers
60947-4-1	Part 4-1: contactors and motor-starters—Electromechanical contactors and motor-starters	60947.4.1	Part 4.1: Contactors and motor-starters—Electromechanical contactors and motor-starters
60947-4-2	Part 4-2: Contactors and motor-starters—AC semiconductor motor controllers and starters	60947.4.2	Part 4.2: Contactors and motor-starters—AC semiconductor motor controllers and starters
60947-5-1	Part 5-1: Control circuit devices and switching elements—Electromechanical control circuit devices	60947.5.1	Part 5.1: Control circuit devices and switching elements—Electromechanical control circuit devices
60947-7-1	Part 7-1: Ancillary equipment—Terminal blocks for copper conductors	60947.7.1	Part 7.1: Ancillary equipment—Terminal blocks for copper conductors
60947-7-2	Part 7-2: Ancillary equipment—Protective conductor terminal blocks for copper conductors	60947.7.2	Part 7.2: Ancillary equipment—Protective conductor terminal blocks for copper conductor
		AS/NZS	
60227	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	60227	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V
60227-5	Part 5: Flexible cables (cords)	60227.5	Part 5: Flexible cables (cords)
61000	Electromagnetic compatibility (EMC)	61000	Electromagnetic compatibility (EMC)
61000-4-1	Part 4-1: Testing and measurement techniques—Overview of IEC 61000-4 series	61000.4.1	Part 4.1: Testing and measurement techniques—Overview of IEC 61000-4 series
61000-4-4	Part 4-4: Testing and measurement techniques—Electrical fast transient/burst immunity test	61000.4.4	Part 4.4: Testing and measurement techniques—Electrical fast transient/burst immunity test

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