

Australian Standard™

**Common specifications for high-voltage
switchgear and control gear standards
(IEC 60694, Ed.2.2(2002) MOD)**

This Australian Standard was prepared by Committee EL-007, Power Switchgear. It was approved on behalf of the Council of Standards Australia on 16 March 2005. This Standard was published on 27 May 2005.

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PREFACE

This Standard was prepared by the Standards Australia Committee EL-007, Power Switchgear, to supersede AS/NZS 2650:2000.

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 is an adoption with national modifications and has been reproduced from IEC 60694, Ed.2.2(2002), *Common specifications for high-voltage switchgear and controlgear standards*, and has been varied as indicated to take account of Australian conditions.

Variations to IEC 60694, Ed.2.2(2002) are indicated at the appropriate places throughout this Standard. Strikethrough (~~example~~) identifies IEC text, tables and figures which, for the purposes of this Australian 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 differs from the Standard it supersedes in the following major areas:

- (a) Standard is now Australian only to reflect the withdrawal of New Zealand participation in Committee EL-007.
- (b) Definitions have been updated.
- (c) ‘Rated supply voltage of closing and opening devices and of auxiliary and control circuits’ (Subclause 4.8) has been replaced.
- (d) Tables 14 and 15 replace tables 4 and 5.
- (e) ‘Auxiliary and control equipment’ (Subclause 5.1) has been replaced.
- (f) New figures 4,5,6,7 and 8 have been added.
- (g) Electromagnetic compatibility (Subclause 5.18) has been replaced.
- (h) The title and text of Subclause 6.1.10 has been replaced.
- (i) The title and text of Subclause 6.1.2 has been replaced.
- (j) Subclauses 6.9.1 to 6.9.7 and table 13 have been replaced.
- (k) Additional tests on auxiliary and control circuits (Subclause 6.10) have been added.
- (l) New annex ‘Electromagnetic compatibility site measurements’ (Annex H) has been added.
- (m) Bibliography (Annex G) has been updated.
- (n) References have been updated.

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

- (i) The number does not appear on each page of text and its identity is shown only on the cover and title page.
- (ii) In the source text ‘this international standard’ should read ‘this Australian Standard’.
- (iii) A full point should be substituted for a comma when referring to a decimal marker.
- (iv) Any French text on figures should be ignored.

The terms ‘normative’ and ‘informative’ are used 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.

CONTENTS

	<i>Page</i>
1 General.....	1
1.1 Scope	1
1.2 Normative references.....	1
2 Normal and special service conditions	7
2.1 Normal service conditions.....	8
2.2 Special service conditions.....	9
3 Definitions.....	10
3.1 General terms.....	10
3.2 Assemblies of switchgear and controlgear	12
3.3 Parts of assemblies	13
3.4 Switching devices	13
3.5 Parts of switchgear and controlgear.....	13
3.6 Operation.....	17
3.7 Characteristic quantities	21
3.8 Index of definitions.....	21
4 Ratings	22
4.1 Rated voltage (U_r).....	23
4.2 Rated insulation level.....	23
4.3 Rated frequency (f_r)	27
4.4 Rated normal current and temperature rise.....	27
4.5 Rated short-time withstand current (I_k).....	30
4.6 Rated peak withstand current (I_p).....	30
4.7 Rated duration of short circuit (t_k).....	30
4.8 Rated supply voltage of closing and opening devices and of auxiliary and control circuits (U_a).....	30
4.9 Rated supply frequency of closing and opening devices and of auxiliary circuits.....	32
4.10 Rated pressure of compressed gas supply for insulation and/or operation	32
5 Design and construction.....	32
5.1 Requirements for liquids in switchgear and controlgear.....	32
5.2 Requirements for gases in switchgear and controlgear	32
5.3 Earthing of switchgear and controlgear	33
5.4 Auxiliary and control equipment	33
5.5 Dependent power operation	43
5.6 Stored energy operation.....	43
5.7 Independent manual operation	44
5.8 Operation of releases.....	44
5.9 Low- and high-pressure interlocking and monitoring devices.....	45
5.10 Nameplates.....	45
5.11 Interlocking devices	46
5.12 Position indication.....	46
5.13 Degrees of protection by enclosures	47
5.14 Creepage distances	48
5.15 Gas and vacuum tightness.....	49
5.16 Liquid tightness.....	49

5.17	Flammability	50
5.18	Electromagnetic compatibility (EMC).....	50
6	Type tests	51
6.1	General.....	51
6.2	Dielectric tests	53
6.3	Radio interference voltage (r.i.v.) test	59
6.4	Measurement of the resistance of circuits	60
6.5	Temperature-rise tests	61
6.6	Short-time withstand current and peak withstand current tests	64
6.7	Verification of the protection	6
6.8	Tightness tests	66
6.9	Electromagnetic compatibility tests (EMC)	69
6.10	Additional tests on auxiliary and control circuits	72
6.200	Dielectric dissipation factor	76
7	Routine tests.....	76
7.1	Dielectric test on the main circuit	76
7.2	Tests on auxiliary and control circuits	77
7.3	Measurement of the resistance of the main circuit	77
7.4	Tightness test	78
7.5	Design and visual checks.....	78
7.200	Dielectric dissipation factor	78
7.201	Partial discharge test.....	78
8	Guide to the selection of switchgear and controlgear	78
9	Information to be given with enquiries, tenders and orders.....	79
10	Rules for transport, storage, installation, operation and maintenance.....	79
10.1	Conditions during transport, storage and installation	79
10.2	Installation	79
10.3	Operation.....	80
10.4	Maintenance	80
11	Safety	83
11.1	Electrical aspects.....	83
11.2	Mechanical aspects	83
11.3	Thermal aspects	83
11.4	Operation aspects.....	83
	Annex A (normative) Identification of test specimens.....	87
	Annex B (normative) Determination of the equivalent r.m.s. value of a short-time current during a short circuit of a given duration.....	89
	Annex C (normative) Method for the weatherproofing test for outdoor switchgear and controlgear.....	90
	Annex D (informative) Information about insulation levels and tests.....	93
	Annex E (informative) Tightness (information, example and guidance)	96
	Annex F (informative) Dielectric testing of self-protected switchgear and controlgear	98
	Annex G (informative) Bibliography	101
	Annex H (informative) Electromagnetic compatibility site measurements	102
	Annex ZZ (normative) Variations to IEC 60694, Ed.2.2(2002) for application in Australia	103

STANDARDS AUSTRALIA

Australian Standard

Common specifications for high-voltage switchgear and controlgear standards (IEC 60694, Ed.2.2(2002) MOD)

Any table, figure or text of the international standard that is struck through is not part of this standard. Any Australian table, figure or text that is added is part of this standard and is identified by shading.

1 General

1.1 Scope

This International Standard applies to a.c. switchgear and controlgear, designed for indoor and outdoor installation and for operation at service frequencies up to and including 60 Hz on systems having voltages above 1 000 V.

This standard applies to all high-voltage switchgear and controlgear, except as otherwise specified in the relevant IEC standards for the particular type of switchgear and controlgear.

1.2 Normative references

The following normative documents contain provisions which through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this International Standard 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 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 identified as such.

~~IEC 60034-1:1996, Rotating electrical machines—Part 1: Rating and performance~~

AS 1359.101, Rotating electrical machines, Part 101: General requirements—Rating and performance (identical to IEC 60034-1)

IEC 60038:1983, IEC standard voltages

~~IEC 60050(31):1978, International Electrotechnical Vocabulary (IEV)—Chapter 131: Electric and magnetic circuits~~

AS 1852.31, International Electrotechnology Vocabulary, Part 131: Electric and magnetic circuits

~~IEC 60050(151):1978, International Electrotechnical Vocabulary (IEV)—Chapter 151: Electrical and magnetic devices~~

AS 1852.151, International Electrotechnology Vocabulary, Part 151: Electric and magnetic devices

IEC 60050(191):1990, International Electrotechnical Vocabulary (IEV) – Chapter 191: Dependability and quality of service