

AS 3439.1—1993

IEC 439-1: 1992

(Supersedes AS 1136.1—1988)

Australian Standard[®]

**Low-voltage switchgear and
controlgear assemblies**

**Part 1: Type-tested and partially
type-tested assemblies**

This Australian Standard was prepared by Committee EL/6, Industrial Switchgear and Controlgear. It was approved on behalf of the Council of Standards Australia on 28 September 1993 and published on 20 December 1993.

The following interests are represented on Committee EL/6:

Australian–British Chamber of Commerce
Australian Electrical and Electronic Manufacturers Association
Bureau of Steel Manufacturers of Australia
Electrical Contractors Association of Australia
Electricity Supply Association of Australia
Independent Electrical Switchboard Manufacturers Association
Institution of Engineers Australia
Railways of Australia Committee
The WorkCover Authority New South Wales
Water Board, Sydney — Illawarra — Blue Mountains

Review of Australian Standards. *To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.*

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

Australian Standard[®]

**Low-voltage switchgear and
controlgear assemblies**

**Part 1: Type-tested and partially
type-tested assemblies**

First published as AS-1136 1974.
Second edition 1980.
Revised and redesignated AS-1136.1 1988.
Revised and redesignated AS-3439.1 1993.
Incorporating:
Amdt 1-1994

PREFACE

This Standard was prepared by the Standards Australia Committee EL/6 on Industrial Switchgear and Controlgear to supersede AS 1136.1—1988, *Low voltage switchgear and controlgear assemblies, Part 1: General requirements*.

This Standard is a Part of a series:

AS

3439 Low-voltage switchgear and controlgear assemblies

- *Part 2: Particular requirements for busbar trunking systems (busways)
- *Part 3: Particular requirements for low voltage switchgear and controlgear assemblies intended to be installed in places where unskilled persons have access for their use — Distribution boards
- *Part 4: Particular requirements for assemblies for construction sites (ACS)

With the exception of Appendices AA to HH, this Standard has been reproduced from IEC 439-1:1992, *Low-voltage switchgear and controlgear assemblies, Part 1: Type-tested and partially type-tested assemblies*, and follows the Clause numbers of IEC 439-1.

Similarly, AS 1136.1—1988 was based on the 1985 edition of IEC 439-1, *Low-voltage switchgear and controlgear assemblies, Part 1: Requirements for type-tested and partially type-tested assemblies*, but differed from IEC 439-1 particularly by not following its clause numbers.

Because a new 1992 edition of IEC 439-1 has been published, it is considered necessary to revise and republish AS 1136.1 as AS 3439.1 with a new title based on IEC 439-1.

AS 3439.1, Appendix GG, lists the differences between the two Australian Standards, while Appendix AA lists the variations between this Standard and IEC 439-1.

All type test approvals gained in accordance with AS 1136.1 still remain valid.

For the purposes of this Standard, the IEC text is amended, supplemented or replaced as set out in Appendix AA. These changes are indicated by a marginal bar against each Clause, Table, Figure or Part thereof affected.

When any cross-references to page numbers appear within the text, these relate to page numbering in the International Standard and are to be disregarded.

Under arrangements made between Standards Australia and the international Standards bodies, ISO and IEC, as well as certain other Standards organizations, users of this Australian Standard are advised that the number of this Standard is not reproduced on each page; its identity is shown only on the cover and title pages.

For the purpose of this Standard, the IEC text should be modified as follows:

- (i) *Terminology* The words 'Australian Standard' should replace the words 'International Standard' wherever they appear.
- (ii) *References* The references to International Standards should be replaced by references to the following Australian Standards:

<i>Reference to International Standard</i>		<i>Australian Standard</i>	
IEC		AS	
38	IEC standard voltages	2926	Standard voltages—Alternating (50 Hz) and direct
50	International Electrotechnical Vocabulary (IEV)	1852	International Electrotechnical Vocabulary
50(441)	Chapter 441: Switchgear, control-gear and fuses	1852.441	Part 441: Switchgear, controlgear and fuses

* In course of preparation

50(471)	Chapter 471: Insulators	1852.471	Part 471: Insulators
50(604)	Chapter 604: Generation, transmission and distribution of electricity—Operation	1852.604	Part 604: Generation, transmission and distribution of electricity—Operation
71	Insulation co-ordination	1824	Insulation co-ordination (phase-to-earth and phase-to-phase, above 1 kV)
71-1	Part 1: Terms, definitions principles and rules	1824.1	Part 1: Basic principles, standard insulation levels and test procedures
73	Coding of indicating devices and actuators by colours and supplementary means	1431	Low voltage switchgear and controlgear—Control circuit devices and switching elements
		1431.2	Part 2: Additional requirements for push-buttons and indicator lights
99	Surge arresters	1307	Surge arresters (diverters)
99-1	Part 1: Non-linear resistor type gapped surge arresters for a.c. systems	1307.1	Part 1: Silicon carbide type for a.c. systems
112	Method for determining the comparative and the proof-tracking indices of solid insulating materials under moist conditions	—	
146	Semiconductor convertors	1955	Semiconductor convertors
146-2	Part 2: Semiconductor self-commutated convertors	1955.2	Part 2: Semiconductor self-commutated convertors
158	Low-voltage controlgear	1029	Low voltage contactors
158-2	Part 2: Semiconductor contactors (solid state contactors)	1029.2	Part 2: Semiconductor (solid state) (up to and including 1000 V a.c. and 1500 V d.c)
269	Low-voltage fuses	2005	Low voltage fuses—Fuses with enclosed fuse-links
364	Electrical installations of buildings	3000	SAA Wiring Rules
364-3	Part 3: Assessment of general characteristics		
364-4-41	Part 4: Protection for safety Chapter 41: Protection against electric shock	3000	SAA Wiring Rules
364-4-481	Part 4: Protection for safety—Section 481: Choice of protective measures against electric shock in relation to external influences (in preparation)	3000	SAA Wiring Rules

This is a free preview. Purchase the entire publication at the link below:

AS 3439.1 : 1993 : EN PDF

- ⤵ Looking for additional Standards? Visit SAI Global Infostore
- ⤵ Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation

Need to speak with a Customer Service Representative - Contact Us