

Australian/New Zealand Standard™

**Low-voltage switchgear and controlgear
assemblies**

**Part 1: Type-tested and partially type-
tested assemblies
(IEC 60439-1:1999 MOD)**

AS/NZS 3439.1:2002

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-006, Industrial Switchgear and Controlgear. It was approved on behalf of the Council of Standards Australia on 8 October 2002 and on behalf of the Council of Standards New Zealand on 2 October 2002. It was published on 11 December 2002.

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Low-voltage switchgear and controlgear assemblies

Part 1: Type-tested and partially type-tested assemblies (IEC 60439-1:1999 MOD)

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-006, Industrial Switchgear and Controlgear to supersede AS 3439.1—1993, *Low-voltage switchgear and controlgear assemblies, Part 1: Type-tested and partially type-tested assemblies*.

The objective of this Standard is to lay down the definitions and to state the service conditions, construction requirements, technical characteristics and tests for low-voltage switchgear and controlgear assemblies.

This Standard is a Part of a series:

AS(NZS) 3439 Low-voltage switchgear and controlgear assemblies

AS/NZS 3439.1 Part 1: Type-tested and partially type-tested assemblies (this Standard)

AS/NZS 3439.2 Part 2: Particular requirements for busbar trunking systems (busways)

AS/NZS 3439.3 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

AS 3439.4 Part 4: Particular requirements for assemblies for construction sites (ACS)

AS/NZS 3439.5 Part 5: Particular requirements for assemblies intended to be installed in public places—Cable distribution cabinets (CDCs) for power distribution in networks

This Standard is an adoption with national modifications and has been reproduced from, IEC 60439-1:1999, *Low-voltage switchgear and controlgear assemblies, Part 1: Type-tested and partially type-tested assemblies*, and has been varied as indicated to take account of Australian/New Zealand conditions.

Variations to IEC 60439-1:1999 are indicated at the appropriate places throughout this Standard. Strikethrough (~~example~~) identifies IEC tables, figures and passages of text which, for the purposes of this Australian/New Zealand Standard, are deleted. Where Australian/New Zealand tables, figures or passages of text 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. These changes are identified in Annex ZZ for easy reference.

Additional information for Australian/New Zealand conditions is contained in Annexes ZA to ZF.

Differences between this Standard and AS 3439.1—1993 are listed in Annex ZG.

Information regarding the current carrying capacity of copper busbars can be found in AS 4388—1996.

This Standard provides requirements for stationary or moveable assemblies. Such assemblies consist of fixed, removable or withdrawable parts.

A separate class of assemblies, commonly known as demountable assemblies exists. These assemblies contain parts which can be removed but which may not comply with the minimum clearance requirements of removable or withdrawable parts as specified in this Standard.

Safety requirements for these assemblies are not necessarily covered in this Standard. Requirements for these assemblies are ‘under consideration’. It is the responsibility of the manufacturer to supply adequate information for the safe operation of these assemblies.

All type test approvals gained in accordance with AS 1136.1—1988 and AS 3439.1—1993 still remain valid.

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- (c) A full point should be substituted for a comma when referring to a decimal marker.

The terms 'normative' and 'informative' have been used in this Standard 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.

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