

Australian/New Zealand Standard™

**Low-voltage switchgear and controlgear
assemblies**

**Part 5: Particular requirements for
assemblies for power distribution in
public networks**



AS/NZS 3439.5:2009

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 13 August 2009 and on behalf of the Council of Standards New Zealand on 16 October 2009.
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Australasian Railway Association
Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Bureau of Steel Manufacturers of Australia
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National Electrical Switchboard Manufacturers Association
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Australian/New Zealand Standard™

Low-voltage switchgear and controlgear assemblies

Part 5: Particular requirements for assemblies for power distribution in public networks

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PREFACE

This Standard was prepared by the Standards Australia/Standards New Zealand Committee EL-006, Industrial Switchgear and Controlgear to supersede AS/NZS 3439.5:2001 on publication.

The objective of this Standard is to specify requirements for cable distribution cabinets in public places, accessed by skilled persons.

This Standard is identical with, and has been reproduced from IEC 60439-5, Ed. 2.0 (2006), *Low-voltage switchgear and controlgear assemblies – Part 5: Particular requirements for assemblies for power distribution in public networks*.

This publication should be read in conjunction with AS/NZS 3439.1. The numbering of its clauses and subclauses correspond with the latter. The clauses of this Standard supplement, modify or replace clauses in AS/NZS 3439.1.

Where there is no corresponding clause or subclause in this Standard the clause or subclause of AS/NZS 3439.1 applies without modification.

Clauses, subclauses, figures and tables that are additional to those in Part 1 are numbered starting from 101.

This Standard is Part 5 of the following series:

| | |
|---------------|--|
| AS/NZS 3439 | Low-voltage switchgear and controlgear assemblies |
| AS/NZS 3439.1 | Part 1: Type-tested and partially type-tested assemblies |
| AS 3439.2 | Part 2: Particular requirements for busbar trunking systems (busways) |
| AS 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 for power distribution in public networks (this Standard) |

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

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text 'IEC 60439-5' should read 'AS/NZS 3439.5' and 'IEC 60439-1' should read 'AS/NZS 3439.1'.
- (c) A full point should be substituted for a comma when referring to a decimal marker.

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.

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Australian/New Zealand Standard**Low-voltage switchgear and controlgear assemblies**
Part 5: Particular requirements for assemblies for power distribution in public networks

1 General**1.1 Scope and object**

Replacement:

Substation cable distribution boards (SCDBs) and cable distribution cabinets (CDCs) for power distribution in networks shall comply with all the requirements of IEC 60439-1 (1999) if not otherwise indicated hereinafter and shall also comply with the particular requirements contained in this publication.

This standard gives supplementary requirements for substation cable distribution boards (SCDBs) and cable distribution cabinets (CDCs), which are stationary, type-tested assemblies (TTA). They are used for the distribution of electrical energy in three-phase systems. Open-type ASSEMBLY are not covered by this standard.

Individual components, such as fuses and switching devices that comply with other standards, shall also comply with the supplementary requirements of this standard.

The object of this standard is to state the definitions and to specify the service conditions, construction requirements, technical characteristics and tests for SCDBs and CDCs. Higher performance and test levels may be required for particular networks, for example, those with meshed connections.

NOTE 1 If a CDC is equipped with additional equipment (for example meters), in such a way that the main function is changed considerably, then other standards may also apply as agreed between user and manufacturer (see 7.6).

NOTE 2 Where local regulations and practices permit, an SCDB or CDC according to this standard may be used in other than public networks.

SCDBs are suitable for installation in places where only skilled persons have access for their use; however, outdoor types may be installed in situations which may be accessible to the public.

SCDBs are connected to the low voltage terminals of distribution transformers by means of connecting bars, rods or cables.

CDCs are for outdoor installation in places which are accessible to the public, and where only skilled persons have access for their use.

1.2 Normative references

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.

This subclause of Part 1 applies with the following additions: