

AS/NZS 61439.2:2016

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Australian/New Zealand Standard™

## **Low-voltage switchgear and controlgear assemblies**

**Part 2: Power switchgear and  
controlgear assemblies  
(IEC 61439-2, Ed. 2.0 (2011), MOD)**



## **AS/NZS 61439.2:2016**

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 16 March 2016 and by the New Zealand Standards Approval Board on 4 May 2016.

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The following are represented on Committee EL-006:

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Bureau of Steel Manufacturers of Australia  
Business New Zealand  
Electrical Contractors Association of New Zealand  
Engineers Australia  
National Electrical and Communications Association  
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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-006, Industrial Switchgear and Controlgear.

The AS/NZS 61439 series will supersede the AS/NZS 3439 series five years from the date of publication. During this period, low-voltage switchgear and controlgear assemblies may comply with either series. After five years it is anticipated that the AS/NZS 3439 series will be withdrawn.

The objective of this Standard is to define specific requirements of power switchgear and controlgear assemblies (PSC-ASSEMBLIES).

Where tests on the ASSEMBLY have been conducted in accordance with the IEC 60439, IEC 61439 or AS/NZS 3439 series and the test results fulfil the requirements of the relevant part of AS/NZS 61439, the verification of these requirements need not be repeated (see Clause 10.1 of Part 1).

This Standard is an adoption with national modifications. It has been reproduced from IEC 61439-2, Ed. 2.0 (2011), *Low-voltage switchgear and controlgear assemblies*, Part 2: *Power switchgear and controlgear assemblies* and has been varied as indicated to take account of Australian/New Zealand conditions.

Variations made to IEC 61439-2, Ed. 2.0 (2011) form the Australian/New Zealand variations for the purposes of the CB scheme for recognition of testing to standards for safety of electrical equipment. They are listed in Appendix ZZ for easy reference.

This Standard is structured as follows:

- (a) Preface.
- (b) IEC 61439-2, Ed. 2.0 (2011) (unedited from the contents page to the final clause of the source document).
- (c) Appendix ZZ—Australian/New Zealand variations to the source document.
- (d) Appendices ZA to ZC contain additional requirements and information referred to from Appendix ZZ.

This second edition includes the following significant technical changes with respect to the last edition of IEC 61439-2:

- (i) Clarification of the scope.
- (ii) Revision of requirements for withdrawable and removable parts.
- (iii) Revision of mechanical impact test (10.2.6).
- (iv) Extension of Table 101.
- (v) Review of Table BB.1 to reflect modified requirements and verifications.

This Standard is to be read in conjunction with AS/NZS 61439.1. The provisions of the general rules dealt with in AS/NZS 61439.1 (hereinafter referred to as Part 1) are only applicable to this Standard insofar as they are specifically cited. When this Standard states ‘addition’, ‘modification’ or ‘replacement’, the relevant text in Part 1 is to be adapted accordingly.

Subclauses that are numbered with a 101 (102, 103, etc.) suffix are additional to the same subclause in Part 1.

Tables and figures in this Part 2 that are new are numbered starting with 101.

New annexes in this Part 2 are lettered AA, BB, etc.

In this Standard, terms written in small capitals are defined in Clause 3.

NOTE: Throughout the IEC 61439 series of standards, the term ASSEMBLY (see 3.1.1 of Part 1) is used for a low-voltage switchgear and controlgear assembly.

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

(A) In the source text ‘this part of IEC 61439’ should read ‘this Australian/New Zealand Standard’.

(B) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>	<i>Australian/New Zealand Standard</i>
IEC	AS/NZS
61439 Low-voltage switchgear and controlgear assemblies	61439 Low-voltage switchgear and controlgear assemblies
61439-1 Part 1: General rules	61439.1 Part 1: General rules (IEC 61439-1, Ed. 2.0 (2011), MOD)

Only normative references that have been adopted as Australian or Australian/New Zealand Standard have been listed.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the annexes or appendices to which they apply. A ‘normative’ annex or appendix is an integral part of a Standard, whereas an ‘informative’ annex or appendix is only for information and guidance.

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