AS/NZS 3439.4:2009
IEC 60439-4, Ed. 2.0 (2004)

AS/NZS 3439.4:2009

Australian/New Zealand Standard™

Low-voltage switchgear and controlgear assemblies

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

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 11 September 2009 and on behalf of the Council of Standards New Zealand on 16 October 2009.
This Standard was published on 11 November 2009.

The following are represented on Committee EL-006:

Australasian Railway Association
Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Bureau of Steel Manufacturers of Australia
Engineers Australia
National Electrical Switchboard Manufacturers Association
Testing Interests (Australia)

Additional Interests:

Subcommittee EL-006-08

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Web Shop at www.saiglobal.com.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR 07162.

Australian/New Zealand Standard™

Low-voltage switchgear and controlgear assemblies

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

Originated as AS 3439.4—1995.
Revised and redesignated as AS/NZS 3439.4:2009.

Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 9299 5

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-006, Industrial Switchgear and Controlgear, to supersede AS 3439.4—1995 on publication.

The objective of this Standard is to specify requirements for type-tested assemblies for construction sites.

This Standard is identical with, and has been reproduced from IEC 60439-4, Ed. 2.0 (2004), *Low-voltage switchgear and controlgear assemblies – Part 4: Particular requirements for assemblies for construction sites (ACS)*.

This Standard is Part 4 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/NZS 3439.4	Part 4:	Particular requirements for assemblies for construction sites (ACS) (this Standard)
AS/NZS 3439.5	Part 5:	Particular requirements for assemblies for power distribution in public networks

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.

The following major changes with respect to Edition 1 of IEC 60439-4 (including amendments 1 and 2) have been incorporated:

– introduction of the definition for ‘rated current of ACS’;

– replacement of classification based on the rated current of ACS by classification based on the function as assigned by the manufacturer;

– amended requirements for the protection of socket-outlets with reference to the more comprehensive requirements of IEC 60364-7-704;

– introduction of common requirements for all types of ACS.

In addition to the particular requirements in this Part 4, all requirements of AS/NZS 3439.1 apply to assemblies for construction sties (ACS) if not otherwise indicated hereinafter.

The clauses and subclauses of this Part 4, modify or replace the respective clauses and subclauses in AS/NZS 3439.1 which is a modified adoption of IEC 60349-1:1999.

In view of the fact that this Part 4 should be read in conjunction with AS/NZS 3439.1, the numbering of its clauses and subclauses correspond to the latter.

Where there is no corresponding clause or subclause in this Part 4, the clause or subclause of AS/NZS 3439.1 applies without modification.

Subclauses and figures which are additional to those in part 1 are numbered starting from 101.

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 60439-4’ should read ‘AS 3439.4’ 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.

CONTENTS

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard

Low-voltage switchgear and controlgear assemblies Part 4: Particular requirements for assemblies for construction sites (ACS)

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 and object

Replace the last three paragraphs by the following:

This standard applies to type-tested ASSEMBLIES (TTA) intended for use on construction sites, i.e. temporary places of work to which the public do not generally have access and where building construction, installation, repairs, alteration or demolition of property (buildings) or civil engineering (public works) or excavation or any other similar operations are carried out. These ASSEMBLIES may be transportable (semi-fixed) or mobile.

This standard does not apply to ASSEMBLIES for use in the administrative centres of construction sites (offices, cloakrooms, ASSEMBLY rooms, canteens, restaurants, dormitories, toilets, etc.).

The nominal primary voltage and the nominal secondary voltage of transformers incorporated in ACS shall be within the limits specified in IEC 60439-1.

Requirements for electrical protection provided by equipment manufactured according to this International Standard shall comply with the requirements given in IEC 60364-7-704.

NOTE This standard may be used as a guide to partially type-tested ASSEMBLIES (PTTA) constructed according to agreement between manufacturer and user taking into account the nature of supply and/or distribution network and relevant installation requirements.

1.2 Normative references

This subclause of Part 1 applies with the following additions:

~~IEC 60068-2-27:1987, *Environmental testing – Part 2: Tests - Test Ea and guidance: Shock*~~

AS 60068.2.27, *Environmental testing—Tests—Test Ea and guidance: Shock* (identical to IEC 60068-2-27)

~~IEC 60068-2-42:2003, *Environmental testing – Part 2-42: Tests - Test Kc: Sulphur dioxide test for contacts and connections* (identical to IEC 60068-2-42)~~

AS 60068.2.42, *Environmental testing—Tests—Test Kc: Sulphur dioxide test for contacts and connections*

IEC 60309-1, *Plugs, socket-outlets and couplers for industrial purposes – Part 1: General requirements*