

Electrical installations (known as the Australian/New Zealand Wiring Rules)

Amendment No. 3

Revised text amendment

Summary

This Amendment applies to the following elements:

- Clauses 1.4.126, 1.5.5.4, 2.5.5.1, 2.5.5.2, 2.10.1, 2.10.3.1, 2.10.3.2, 2.10.3.3, 3.4.1, 3.8.1, 3.9.7.1.2, 3.15, 4.4.1.1.1, 4.4.2.2, 4.13.1.2.
- Appendices A, C and K.

Amendment Details

AS/NZS 3000:2018 is amended as follows. The amendments should be inserted in the locations as instructed.

Element	Instruction / New text
CI 1.4.126	<p>Delete the Exception and <i>replace</i> with the following: <i>“Exception: This definition does not apply to busbar trunking systems (busways) complying with AS/NZS 61439.6.”</i></p>
CI 1.5.5.4	<p>In list item (a), <i>delete</i> item (ii) and <i>replace</i> with the following: <i>“(ii) Switchgear assemblies having total insulation in accordance with AS/NZS 61439.1.”</i></p>
CI 2.5.5.1	<p>Delete Note 1 and <i>replace</i> with the following: <i>“1 Refer to AS/NZS 61439.1 for switchboard requirements and AS/NZS 61439.6 for busways.”</i></p>
CI 2.5.5.2	<p>1 <i>Delete</i> first paragraph and <i>replace</i> with the following: <i>“Switchboards rated at 800 A or greater per phase shall be provided with internal separation in accordance with AS/NZS 61439.2 for—”</i></p> <p>2 <i>Delete</i> Note 1 and <i>replace</i> with the following: <i>“1 Separation in accordance with AS/NZS 61439.2 may be achieved by the insulation of busbars, the use of barriers or by insulated housings, i.e. by the use of a Form 3b, Form 3bi, Form 3bh, Form 3bih, Form 4a, Form 4ah, Form 4aih or Form 4b, Form 4bi, Form 4bh, Form 4bih constructed switchboard.”</i></p> <p>3 <i>Delete</i> Note 3 and <i>replace</i> with the following: <i>“3 Internal arc fault testing of switchboard designs to Annex ZD of AS/NZS 61439.1 or IEC/TR 61641 is not required and is considered to be an enhancement of internal separation. These designs are intended to prevent the arc or products of the arc affecting other parts of the switchboard. Arc fault containment is achieved by the arrangement of the busbars and functional units of the switchboard in vented compartments and relies, for its effectiveness, on compartment access doors being closed during a fault. It is not designed to prevent the initiation of a fault during maintenance and is also not designed to provide switching operator or maintenance personnel protection if any covers are not properly fixed in place.”</i></p>
CI 2.10.1	<p>Delete Exception 1 and <i>replace</i> with the following:</p>

Element	Instruction / New text
	<p>“1 This requirement need not apply to switchgear and protective devices installed in a ground-mounted, cable-distribution cabinet in accordance with AS/NZS 61439.5, that protect small submains teed off larger submains forming an underground reticulated wiring system and to which unskilled persons do not require access.</p>
CI 2.10.3.1	<p>Delete second paragraph and <i>replace</i> with the following:</p> <p>“In situations where the removal of covers and the like exposes live parts, such covers shall be identified in accordance with AS/NZS 61439.1.”</p>
CI 2.10.3.2	<p>1 Delete second paragraph <i>replace</i> with the following:</p> <p>“Switchboards complying with the requirements of the AS/NZS 61439 series are deemed to comply with this Clause.</p> <p>2 Delete third paragraph and <i>replace</i> with the following:</p> <p>“Switchboards shall comply with the AS/NZS 61439 series if one or both of the following exist:</p>
CI 2.10.3.3	<p>Delete first paragraph and <i>replace</i> with the following:</p> <p>“All bare conductors and bare live parts of a switchboard shall be rigidly fixed so that a minimum clearance or creepage distance in air, in accordance with the AS/NZS 61439 series, is maintained between such conductors or parts of opposite polarity or phase and between such conductors or parts and earth.”</p>
CI 3.4.1	<p>Delete Note 4 and <i>replace</i> with the following:</p> <p>“4 Current-carrying capacities for busbars and busways should be obtained from the manufacturer. Information relating to busways is given in AS/NZS 61439.6.”</p>
CI 3.8.1	<p>Delete Note 2 and <i>replace</i> with the following:</p> <p>“2 Switchboard wiring is not regarded as installation wiring but the AS/NZS 61439 series restricts the green/yellow combination to the identification of earthing conductors.”</p>
CI 3.9.7.1.2	<p>Delete item (iv) and <i>replace</i> with the following:</p> <p>“(iv) Busways and busbar systems, including joints and switchboard busbars, having insulation up to the first protective device in accordance with the AS/NZS 61439 series.”</p>
CI 3.15	<p>Delete first paragraph and <i>replace</i> with the following:</p> <p>“Busbar trunking systems (busways) shall comply with AS/NZS 61439.6, and shall be installed in accordance with the manufacturer’s instructions.”</p>
CI 4.4.1.1.1	<p>Delete item (a) and <i>replace</i> with the following:</p> <p>“(a) AS/NZS 3112.”</p>
CI 4.4.2.2	<p>Item (a), <i>delete</i> Note and <i>replace</i> with the following:</p> <p>“NOTE: AS/NZS 3112 contains requirements for socket outlets intended to be mounted in a floor.”</p>
CI 4.13.1.2	<p>Note, <i>delete</i> item (c) and <i>replace</i> with the following:</p> <p>“(c) Switches incorporated with and supplying a socket-outlet intended for use with a plug complying with AS/NZS 3112.”</p>
App A	<p>1 Delete 3439 Low voltage switchgear and controlgear assemblies (series).</p> <p>2 Delete 60884 Plugs and socket-outlets for household and similar purposes.</p> <p>3 Delete 60884.1 Part 1: General requirements (IEC 60884-1, Ed. 3.1 (2006) MOD).</p>
App C2.4.4	<p>Delete first paragraph and <i>replace</i> with the following:</p> <p>“For switchboards conforming with the AS/NZS 61439 series, the maximum demand may be determined by multiplying the arithmetic sum of the circuit overload ratings by the appropriate diversity factor in Table C4 below.”</p>
App K1.2	<p>Delete first paragraph and <i>replace</i> with the following:</p>

Element	Instruction / New text
App K2.1	<p>“Switchboards constructed to the AS/NZS 61439 series are deemed to comply with the requirements of Clause 2.10.3, and are therefore deemed to comply with this Standard.”</p> <p><i>Delete</i> first paragraph and <i>replace</i> with the following:</p> <p>“AS/NZS 61439 series may be used under the conditions provided in Paragraphs K2.2 and K2.3.</p>
App K2.2	<i>Delete</i> clause.
App K2.3	<p><i>Delete</i> first paragraph and <i>replace</i> with the following:</p> <p>“Where tests on an ASSEMBLY have been conducted in accordance with IEC 61439, and the test results fulfil the requirements of the relevant part of the AS/NZS 61439 series, further verification of these requirements is not required.”</p>

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