

AS EN 50064—2008

EN 50064:1989

EN 50064:1989 AMD1:1994

AS EN 50064—2008

Australian Standard<sup>®</sup>

**Wrought aluminium and aluminium alloy  
enclosures for gas-filled high-voltage  
switchgear and controlgear**

**STANDARDS**  
Australia



This Australian Standard® was prepared by Committee EL-007, Power Switchgear. It was approved on behalf of the Council of Standards Australia on 4 November 2008. This Standard was published on 9 December 2008.

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The following are represented on Committee EL-007:

- Australasian Railway Association
  - Australian British Chamber of Commerce
  - Australian Electrical and Electronic Manufacturers Association
  - Energy Networks Association
  - Engineers Australia
  - Testing interests (Australia)
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This Standard was issued in draft form for comment as DR 08175.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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## PREFACE

This Standard was prepared by the Standards Australia Committee EL-007, Power Switchgear.

The objective of this Standard is to specify the requirements for wrought aluminium and aluminium alloy enclosures for use in high-voltage switchgear and controlgear and associated gas-filled equipment.

This Standard is identical with, and has been reproduced from, EN 50064:1989, *Wrought aluminium and aluminium alloy enclosures for gas-filled high-voltage switchgear and controlgear* (including its Amendment 1).

The formatting of this document has been updated to reflect current style and minor editorial errors have been corrected.

This document forms a supplement to EN 50052 (1986), *Cast aluminium alloy enclosures for gas-filled high-voltage switchgear and controlgear*, concerning enclosures for the same type of switchgear and controlgear but made of wrought aluminium and aluminium alloys. It is based on the general specifications given in IEC 60517 (1986), which are, however, not sufficient to satisfy the conditions for the service allowance of pressurized high-voltage switchgear and controlgear.

These specifications are appropriate for pressurized switchgear enclosures allowing an economic production without sacrificing aspects of safety. For unusual shapes dictated by electrical conditions they permit the verification of sound design by proof tests instead of calculations. Nevertheless this Standard makes use of many internationally well acknowledged calculation rules and the Technical Committee will in addition pursue the progress in standardization in CEN/TC 121 and ISO/TC 44 on welding and allied processes.

For the time being reference can only be made to published International Standards as far as they are appropriate for the purpose of production of enclosures to be used in gas-filled switchgear and controlgear.

The present EN has been established as an international specification for the design, construction, testing, inspection and certification of pressurized enclosures used in high-voltage switchgear and controlgear. This Standard follows to that extent also Article 2 of the Directive 76/767/EEC.

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

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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 Standard</i>
IEC 60517 (1986) Gas-insulated metal-enclosed and switchgear for rated voltages of HD 358 S2 72.5 kV and above (all versions superseded by IEC 62271-203)	All versions superseded by AS 62271.203

ISO		
373:1964	General principles for fatigue testing of metals	—
3134:1985	Light metals and their alloys – Terms and definitions Part 1: Materials Part 3: Wrought products Part 5: Methods of processing and treatment	—
6213:1983	Welding – Items to be considered to ensure quality in welding structures	—
6520:1982	Classification of imperfections in metallic fusion welds, with explanations	—
9000:1987	Guidelines for selection and use of the standards on quality management, quality system elements and quality assurance	—
ISO/IEC		
Guide 2:1986	General terms and their definitions concerning standardization and related activities	—

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