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Australia



High-voltage switchgear and controlgear — Gas-filled cast aluminium alloy enclosures

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- Australian Industry Group
- Electric Energy Society of Australia
- Energy Networks Australia
- Engineers Australia
- Institute of Electrical Inspectors
- The University of Queensland
- University of New South Wales

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Preface

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee EL-007, Power Switchgear to supersede AS EN 50052—2008, *Cast aluminium alloy enclosures for gas-filled high-voltage switchgear and controlgear*.

The objective of this document is to specify requirements for cast aluminium alloy enclosures pressurized with dry air, inert gases, for example sulfur hexafluoride or nitrogen or a mixture of such gases, used in indoor or outdoor installations of high-voltage switchgear and controlgear above 1 kV, where the gas is used principally for its dielectric and/or arc-quenching properties with rated voltages:

- (a) Above 1 kV and up to and including 52 kV and with gas-filled enclosures with design pressure higher than 300 kPa relative pressure (gauge).
- (b) With rated voltage above 52 kV.

The enclosures comprise parts of electrical equipment not necessarily limited to the following examples:

- (i) Circuit-breakers.
- (ii) Switch-disconnectors.
- (iii) Disconnectors.
- (iv) Earthing switches.
- (v) Current transformers.
- (vi) Voltage transformers.
- (vii) Surge arrestors – Busbars and connections.

The scope also covers enclosures of pressurized components such as the centre chamber of live tank switchgear and gas-insulated current transformers.

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