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

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Electric Energy Society of Australia
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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.

This document is identical with, and has been reproduced from, EN 50052:2016, *High-voltage switchgear and controlgear – Gas-filled cast aluminium alloy enclosures.*

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