



High-voltage switchgear and controlgear

Part 202: High-voltage/low-voltage prefabricated substation (IEC 62271- 202:2014, MOD)



AS 62271.202:2019

This Australian Standard® was prepared by EL-007, Power Switchgear. It was approved on behalf of the Council of Standards Australia on 21 October 2019.

This Standard was published on 22 November 2019.

The following are represented on Committee EL-007:

- Australian Industry Group
- Energy Networks Australia
- Engineers Australia
- University of New South Wales

This Standard was issued in draft form for comment as DR AS IEC 62271.202:2019.

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ISBN 978 1 76072 634 8



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Originated as AS 61330—2005.
Revised and redesignated as AS 62271.202—2008.
Second edition 2019.

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Preface

This Standard was prepared by the Standards Australia Committee EL-007, Power Switchgear, to supersede AS 62271.202—2008, *High-voltage switchgear and controlgear, Part 202: High-voltage/low-voltage prefabricated substation*.

The objective of this Standard is to specify the service conditions, rated characteristics, general structural requirements and test methods of the following:

- (a) High voltage/low voltage or low voltage/high voltage prefabricated substations, which are cable-connected, to be operated from inside (walk-in type) or outside (non-walk-in type) for alternating current of rated voltages above 1 kV and up to and including 52 kV on the high voltage side.
- (b) One or more transformers for service frequencies up to and including 60 Hz for outdoor installation at locations with public accessibility and where protection of personnel is provided.

In general, a prefabricated substation comprises an enclosure containing the following electrical components:

- (i) Power transformers.
- (ii) High voltage and low voltage switchgear and controlgear.
- (iii) High voltage and low voltage interconnections.
- (iv) Auxiliary equipment and circuits.

However, relevant provisions of this standard are applicable to designs where not all these electrical components exist (for example, an installation consisting of power transformer and low voltage switchgear).

This Standard is an adoption with national modifications, and has been reproduced from, IEC 62271-202:2014, *High-voltage switchgear and controlgear — Part 202: High-voltage/low-voltage prefabricated substation*. The modifications are additional requirements and are set out in Appendix ZZ which has been added at the end of the source text.

Appendix ZZ lists the variations to IEC 62271-202:2014 for the application of this Standard in Australia.

As this document has been reproduced from an International Standard, the following applies:

- (A) In the source text “this part of IEC 62271” should read “this Australian Standard”.
- (B) A full point substitutes for a comma when referring to a decimal marker.

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The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

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