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AS/NZS 60335.2.34:2016
IEC 60335-2-34 Ed 5.2
(Incorporating Amendment No. 1)

AS/NZS 60335.2.34:2016

Australian/New Zealand Standard™

Household and similar electrical appliances—Safety

Part 2.34: Particular requirements for motor-compressors

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This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-002, Safety of Household and Similar Electrical Appliances and Small Power Transformers. It was approved on behalf of the Council of Standards Australia on 20 June 2016 and by Council of Standards New Zealand on 2 June 2016.
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The following are represented on Committee EL-002:

Australian Industry Group
National Retailers Association (Australia)
Business New Zealand
Consumer Electronic Suppliers Association, Australia
Consumers' Federation of Australia
Electrical Regulatory Authorities, Australia
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This Standard was issued in draft form for comment as DR 15927.

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Household and similar electrical appliances—Safety

Part 2.34: Particular requirements for motor-compressors

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

AS/NZS 60335.2.34:2016

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2.34: Particular requirements for motor-compressors

Foreword

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers to supersede AS/NZS 60335.2.34:2013 two years from the date of publication.

A1

The objective of this Standard is to provide manufacturers, designers, regulatory authorities, testing laboratories and similar organizations with safety requirements designed to give the user protection against hazards that might occur during normal operation and abnormal operation of the appliance and which may be used as the basis for approval for sale or for connection to the electricity supply mains in Australia and New Zealand.

The text of IEC 60335-2-34 Ed 5.1, prepared by IEC Technical Committee SC 61C, was submitted to the Standards Australia/Standards New Zealand Combined Procedure (dual public comment and committee vote) for adoption of the IEC standard as a Standards Australia/Standards New Zealand joint standard.

The principal changes in this edition as compared with the 2013 edition of AS/NZS 60335.2.34 and its amendments are as follows (minor changes are not listed).

– Variable speed and multi-speed **motor-compressors** are added to the scope (1);
– Application category evaporation temperature range has been clarified (3.107, Annex AA);
– tests conditions for cascade systems are specified (5.103);
– requirements for R744 operating in a transcritical system and subcritical system are included (22.7, Annex AA);
– requirements for winding wires, tie cords and insulation exposed to refrigerant are included (22.9, Annex BB and annex CC);
– requirements for use of flammable refrigerants are included (24.101).

A1 DOW 30/11/19

This Standard is an adoption with national modifications of the fifth edition of IEC 60335-2-34, *Household and similar electrical appliances – Safety – Part 2-34: Particular requirements for motor-compressors* and its amendment 1 (2015). It has been varied as indicated to take account of Australian and New Zealand conditions.

A1 DOA 30/11/19

The text of IEC 60335-2-34 edition 5 amendment 2, prepared by IEC Technical Committee SC 61C, was submitted to the Standards Australia/Standards New Zealand Combined Procedure (dual public comment and committee vote) for adoption as an amendment to the Standards Australia/Standards New Zealand joint standard AS/NZS 60335.2.34:2016.

This Standard incorporates Amendment No. 1 (November 2017). The changes required by the amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected. Where an application date other than immediate is applicable to an amendment the date of application (DOA) and the date of withdrawal (DOW) if relevant, is indicated by the marginal bar against the part affected.

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Unless otherwise indicated, the application dates of the changes introduced by Amendment No.1 is (30 November 2019).

A1 DOA 30/11/19

This standard is an adoption with national modifications of the fifth edition of IEC 60335-2-34, *Household and similar electrical appliances – Safety – Part 2-34: Particular requirements for motor-compressors* including its amendment 1 (2015) and amendment 2 (2016). It has been varied as indicated to take account of Australian and New Zealand conditions.

This part 2 has to be used in conjunction with the latest edition of AS/NZS 60335.1 Household and similar electrical appliances – Safety – Part 1: General requirements and its Amendments. It was established on the basis of AS/NZS 60335.1:2011.

This part 2 supplements or modifies the corresponding clauses of AS/NZS 60335.1 so as to convert it into the Australian/New Zealand Standard: Safety requirements for motor-compressors.

When a particular subclause of Part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text of Part 1 is to be adapted accordingly.

NOTE 1 The following numbering system is used:

– subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
– unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
– additional annexes are lettered AA, BB, etc.;
– subclauses, notes and annexes that are additional to those in the IEC standard are prefixed with the letters AZ.

NOTE 2 The following print types are used:

– requirements: in roman type;
– *test specifications: in italic type*;
– notes: in small roman type.

Words in **bold** in the text are defined in Clause 3.

p NOTE 3 In this document, p is used in the margin to indicate instructions for preparing a consolidated version.

The essential safety requirements in AS/NZS 3820[1] that could be applicable to requirements for motor-compressors are covered by this standard.

A1 DOW 30/11/19

The national variations to IEC 60335-2-34 Ed 5.1 form the Australian and New Zealand national variations for purposes of the IECEE scheme for recognition of results of testing to standards for safety of electrical equipment (the CB scheme).

A1 DOA 30/11/19

The national variations to IEC 60335-2-34 Ed 5.2 form the Australian and New Zealand national variations for purposes of the IECEE scheme for recognition of results of testing to standards for safety of electrical equipment (the CB scheme).

There are no national variations from the IEC Standard from which this standard is adopted, other than those listed in the national variations to AS/NZS 60335.1.

[1] AS/NZS 3820 *Essential safety requirements for electrical equipment*

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