



# UL 60335-2-34

## **STANDARD FOR SAFETY**

Household and Similar Electrical Appliances –  
Safety – Part 2-34: Particular Requirements for  
Motor-Compressors



UL Standard for Safety for Household and Similar Electrical Appliances – Safety – Part 2-34: Particular Requirements for Motor-Compressors, UL 60335-2-34

Sixth Edition, Dated November 3, 2017

### **Summary of Topics**

***The following is the Sixth Edition of ANSI/UL 60335-2-34, the common CSA Group and UL (binational) standard that is an adoption of IEC 60335-2-34, Safety Standard for of Household and Similar Electrical Appliances – Safety – Part 2-34: Particular Requirements for Motor-Compressors (IEC 60335-2-34, Edition 5.2:2016.)***

The new requirements are substantially in accordance with Proposal(s) on this subject dated March 24, 2017 and July 7, 2017.

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UL 60335-2-34  
Sixth Edition

## **Household and Similar Electrical Appliances – Safety – Part 2-34: Particular Requirements for Motor-Compressors**

November 3, 2017

This national standard is based on publication IEC 60335-2-34, Edition 5.2:2016 (Edition 5:2012 consolidated with amendment 1:2015 and its corrigendum 1:2015, and amendment 2:2016).



ANSI/UL 60335-2-34-2017

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## PREFACE

This is the harmonized CSA Group and UL standard for particular requirements for motor-compressors. It is the second edition of CAN/CSA-C22.2 No. 60335-2-34, and the sixth edition of UL 60335-2-34. This edition of CAN/CSA-C22.2 No. 60335-2-34 supersedes the previous edition published on March 22, 2013. This edition of UL 60335-2-34 supersedes the previous edition published on March 22, 2013.

This harmonized standard is based on IEC Publication 60335-2-34: Edition 5.2, Household and Similar Electrical Appliances – Safety – Part 2-34: Particular Requirements for Motor-Compressors, issued November 2016. IEC 60335-2-34 is copyrighted by the IEC.

This harmonized Standard was prepared by CSA Group and Underwriters Laboratories Inc. (UL). The efforts and support of the motor-compressor manufacturing industry are gratefully acknowledged.

This standard is considered suitable for use for conformity assessment within the stated scope of the standard.

This Standard was reviewed by the CSA Subcommittee on Household Appliances for Refrigeration, under the jurisdiction of the CSA Technical Committee on Consumer and Commercial Products and the CSA Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the CSA Technical Committee. This Standard was also reviewed and approved by UL's Standards Technical Panel for Heating and Cooling Equipment – Particular Requirements for Motor-Compressors, STP 60335-2-34.

This Standard has been approved as a National Standard of Canada by the Standards Council of Canada (SCC) and approved by the American National Standards Institute (ANSI) for publication as an American National Standard.

### Application of Standard

Where reference is made to a specific number of samples to be tested, the specified number is to be considered a minimum quantity.

**Note:** Although the intended primary application of this standard is stated in its scope, it is important to note that it remains the responsibility of the users of the standard to judge its suitability for their particular purpose.

CAN/CSA-C22.2 No. 60335-2-34 is to be used in conjunction with the second edition of CAN/CSA-C22.2 No. 60335-1:16. The requirements for motor-compressors are contained in this Part 2 Standard and CAN/CSA-C22.2 No. 60335-1:16. Requirements of this Part 2 Standard, where stated, amend the requirements of CAN/CSA-C22.2 No. 60335-1:16. Where a particular subclause of CAN/CSA-C22.2 No. 60335-1:16 is not mentioned in CAN/CSA-C22.2 No. 60335-2-34, the CAN/CSA-C22.2 No. 60335-1:16 subclause applies.

UL 60335-2-34 is to be used in conjunction with the sixth edition of UL 60335-1. The requirements for motor-compressors are contained in this Part 2 Standard and UL 60335-1. Requirements of this Part 2 Standard, where stated, amend the requirements of UL 60335-1. Where a particular subclause of UL 60335-1 is not mentioned in UL 60335-2-34, the UL 60335-1 subclause applies.

## Level of Harmonization

This standard adopts the IEC text with national differences. This standard is published as an equivalent standard for CSA and UL.

An equivalent standard is a standard that is substantially the same in technical content, except as follows:

a) Technical national differences are allowed for national differences resulting from conflicts in codes and governmental regulations as well as those recognized as being in accordance with NAFTA Article 905, for example, because of fundamental climatic, geographical, technological, or infrastructural factors, scientific justification, or the level of protection that the country considers appropriate.

b) Presentation is word for word except for editorial changes that do not alter the technical content of the standard. Examples of editorial changes include:

- 1) different font sizes, figure sizes, and table sizes;
- 2) minor variations in format, such as indentation and pagination;
- 3) font appearance (including the use of italic or bold text or uppercase or lowercase letters);
- 4) the use of a symbol (e.g., A or %) rather than the word (Ampere or percent), or the word rather than the symbol;
- 5) inclusion of inch-pound units for informational purposes;
- 6) corrections of misprints or typographical errors;
- 7) bilingual column headings or figure captions on a common table or figure in a bilingual edition;
- 8) change from first-angle to third-angle drawing;
- 9) addition of a statement: "This is a first-angle drawing"; and
- 10) substitution of a point (.) for a comma (,) as the decimal marker.

All national differences from the IEC text are included in the CSA Group and UL versions of the standard. While the technical content is the same in each organization's version, the format and presentation may differ.

## Reasons for Differences From IEC

Differences from the IEC are being added in order to address safety and regulatory situations present in the US and Canada.