UL 60745-2-3

STANDARD FOR SAFETY

Hand-Held Motor-Operated Electric Tools – Safety – Part 2-3: Particular Requirements for Grinders, Polishers and Disk-Type Sanders

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UL Standard for Safety for Hand-Held Motor-Operated Electric Tools – Safety – Part 2-3: Particular Requirements for Grinders, Polishers, and Disk-Type Sanders, UL 60745-2-3

Second Edition, Dated May 31, 2007

Summary of Topics

The revisions of ANSI/UL 60745-2-3 dated December 11, 2018 is being issued to update the title page to reflect the most recent designation as a Reaffirmed American National Standard (ANS). No technical changes have been made.

As noted in the Commitment for Amendments statement located on the back side of the title page, UL and CSA are committed to updating this harmonized standard jointly. However, the revision pages dated December 11, 2018 will not be jointly issued by UL and CSA as these revision pages address UL ANSI approval dates only.

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin.

The requirements are substantially in accordance with Proposal(s) on this subject dated October 5, 2018.

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CSA Group
CAN/CSA-C22.2 No. 60745-2-3-07
Second Edition
(IEC 60745-2-3:2006, MOD)

Underwriters Laboratories Inc.
UL 60745-2-3
Second Edition

Hand-Held Motor-Operated Electric Tools – Safety – Part 2-3: Particular Requirements for Grinders, Polishers and Disk-Type Sanders

May 31, 2007

(Title Page Reprinted: December 11, 2018)

This national standard is based on publication IEC 60745-2-3, Second Edition (2006).

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ANSI/UL 60745-2-3-2013 (R2018)

Commitment for Amendments

This standard is issued jointly by the Canadian Standards Association (operating as CSA Group) and Underwriters Laboratories Inc. (UL). Comments or proposals for revisions on any part of the standard may be submitted to CSA Group or UL at anytime. Revisions to this standard will be made only after processing according to the standards development procedures of CSA Group and UL. CSA Group and UL will issue revisions to this standard by means of a new edition or revised or additional pages bearing their date of issue.

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This ANSI/UL Standard for Safety consists of the Second Edition including revisions through December 11, 2018. The most recent designation of ANSI/UL 60745-2-3 as a Reaffirmed American National Standard (ANS) occurred on December 11, 2018. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page (front and back), or the Preface. The National Difference Page and IEC Foreword are also excluded from the ANSI approval of IEC-based standards.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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Preface

This is the harmonized CSA Group and UL standard for Hand-Held Motor-Operated Electric Tools – Safety – Part 2-3: Particular Requirements for Grinders, Polishers, and Disk-Type Sanders. It is the second edition of CAN/CSA-C22.2 No. 60745-2-3 and the second edition of UL 60745-2-3. This standard is based on IEC 60745-2-3, second edition. This harmonized standard has been jointly revised on September 20, 2013. For this purpose, CSA Group and UL are issuing revision pages dated September 20, 2013.

This standard is based on edition 2.2 of the Standard for Hand-Held Motor-Operated Electric Tools – Safety – Part 2-3: Particular Requirements for Grinders, Polishers, and Disk-Type Sanders, IEC 60745-2-3, published July 2012.

The first edition of this standard was designated CAN/CSA-C22.2 No. 745-2-3/UL 745-2-3. This standard CAN/CSA-C22.2 No. 60745-2-3/UL 60745-2-3, second edition, supersedes:

a) the first edition CAN/CSA-C22.2 No. 745-2-3/UL 745-2-3 published in 1995; and

b) CAN/CSA-C22.2 No. 745-4-3/UL 745-4-3, (requirements for battery tools and battery packs are now incorporated into the requirements of CAN/CSA-C22.2 No. 60745-2-3, second edition, and UL 745-4-3, second edition).

This common standard was prepared by the CSA Group and Underwriters Laboratories Inc. (UL). The efforts and support of the Harmonization Working Group for the Adoption of the IEC 60745 Series of Tool Standards 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 Safety of Hand-Held Motor-Operated Electric Tools, 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 has been approved as a National Standard of Canada by the Standards Council of Canada.

This standard has been approved by the American National Standards Institute (ANSI) as an American National Standard.

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

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: Technical national differences are allowed for codes and governmental regulations as well as those recognized as being in

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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. Presentation is word for word except for editorial changes.

All national differences from the IEC text are included in the CSA 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 basic safety requirements and existing safety practices present in the USA and Canada.

Interpretations

The interpretation by the standards development organization of an identical or equivalent standard is based on the literal text to determine compliance with the standard in accordance with the procedural rules of the standards development organization. If more than one literal interpretation has been identified, a revision is to be proposed as soon as possible to each of the standards development organizations to more accurately reflect the intent.

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