UL 60947-4-1:2026

(IEC 60947-4-1:2009+A1:2012, MOD)

STANDARD FOR SAFETY

Low-Voltage Switchgear and Controlgear – Part 4-1: Contactors and Motor-Starters – Electromechanical Contactors and Motor-Starters

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UL Standard for Safety for Low-Voltage Switchgear and Controlgear – Part 4-1: Contactors and Motor-Starters – Electromechanical Contactors and Motor-Starters, UL 60947-4-1

Fourth Edition, Dated May 31, 2022

Summary of Topics

This revision of ANSI/UL 60947-4-1 dated May 29, 2026 includes the following changes in requirements:

– Addition of Class CF; Table DVB.1

– Revision to Short Circuit Marking Requirement; 6.2DV.2.1

– Correction to Annex DVC Reference to AC3 Ratings; 9.3.3.5.3DV, Table DVC.4.2.1.1.1, Table DVC.4.2.1.1.2, Table DVC.4.2.1.1.3, Table DVC.4.2.1.1.5, Table DVC.5.1.3.1.1, and Table DVC.5.1.4.1.1.

– Revision to Table 9.3.3.6DV.1

– Allowance to Provide User or Installation Manual Information Via the Internet; 6.2DV.1.1, Table 6.2DV.1, 6.2DV.1.2, 6.2DV.1.3, Figure 6.2DV.1, Figure 6.2DV.2, and Figure 6.2DV.3.

– Correction to Annex DVC References to Undervoltage / Overvoltage Test and Calibration Test; 9.3.1DV.1, Table DVC.4.2.1.1.1, Table DVC.4.2.1.1.3, Table DVC.4.2.1.1.4, Table DVC.4.2.1.1.5, and DVC.5.1.6

UL 60947-4-1 is an adoption of IEC 60947-4-1, Edition 3.0, issued 2009 and its amendment 1, issued (2012). Please note that the National Difference document incorporates all of the U.S. national differences for UL 60947-4-1.

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

The revised requirements are substantially in accordance with Proposal(s) on this subject dated July 25, 2025 and January 30, 2026.

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PREFACE

This is the harmonized CSA Group and ULSE Standard for Low-voltage switchgear and controlgear – Part 4-1: Contactors and motor-starters – Electromechanical contactors and motor-starters. It is the third edition of CSA C22.2 No. 60947-4-1, and the fourth edition of UL 60947-4-1. This edition of CSA C22.2 No. 60947-4-1 supersedes the previous edition published in 2014 as CAN/CSA-C22.2 No. 60947-4-1. This harmonized standard has been jointly revised on May 29, 2026. For this purpose, CSA Group and ULSE are issuing revision pages dated May 29, 2026.

This harmonized standard is based on IEC publication 60947-4-1, Edition 3.1, Low-voltage switchgear and controlgear – Part 4-1: Contactors and motor-starters – Electromechanical contactors and motor-starters, issued July 2012. IEC 60947-4-1 is copyrighted by the IEC.

This harmonized standard was prepared by CSA Group and ULSE. The efforts and support of the Technical Harmonization Committee for Industrial Control Equipment, of the Council on the Harmonization of Electrotechnical Standards of the Nations of the Americas (CANENA), 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 Integrated Committee on Industrial Control, under the jurisdiction of the CSA Technical Committee on Industrial 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 developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

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.

CSA C22.2 No. 60947-4-1 is to be used in conjunction with the third edition of CSA C22.2 No. 60947-1. Requirements of this Standard, where stated, amend the requirements of CSA C22.2 No. 60947-1.

UL 60947-4-1 is to be used in conjunction with the sixth edition of UL 60947-1. Requirements of this Standard, where stated, amend the requirements of UL 60947-1.

Level of Harmonization

This Standard adopts the IEC text with national differences.

This Standard is published as an equivalent standard for CSA Group and ULSE.

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 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.

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All national differences from the IEC text are included in the CSA Group and ULSE 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

National differences from the IEC are being added in order to address safety and regulatory situations present in the US 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 interpretation of the literal text 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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NATIONAL DIFFERENCES

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There are five types of National Differences as noted below. The difference type is noted on the first line of the National Difference in the standard. The standard may not include all types of these National Differences.

DR – These are National Differences based on the **national regulatory requirements**.

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DC – These are National Differences based on the **component standards** and will not be deleted until a particular component standard is harmonized with the IEC component standard.

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