CSA GROUP™

C22.2 No. 213-17
National Standard of Canada

Nonincendive electrical equipment for use in Class I and II, Division 2 and Class III, Divisions 1 and 2 hazardous (classified) locations

Standards Council of Canada
Conseil canadien des normes

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Nonincendive electrical equipment for use in Class I and II, Division 2 and Class III, Divisions 1 and 2 hazardous (classified) locations

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Ninth Edition

Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

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ANSI/UL 121201-2019

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PREFACE

This is the harmonized CSA Group and UL standard for Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations. It is the Third edition of CSA-C22.2 No. 213 and the Ninth edition of UL 121201. This edition of CSA-C22.2 No. 213 supersedes the previous edition published in 2016. This edition of UL 121201 supersedes the previous ISA-12.12.01-2015 edition published on August 21, 2015.

This harmonized standard was prepared by the CSA Group and Underwriters Laboratories Inc. (UL).

Efforts have been made to synchronize the UL edition number with that of the previous corresponding ISA standard with which this standard is now harmonized with CSA. As a result, one or more UL edition numbers have been skipped to align per the previous ISA edition number.

The ISA-12.12.01-2015 standard is being maintained until September 15, 2022 for reference purposes only.

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 Hazardous Location Products, 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 approved by the American National Standards Institute (ANSI) 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.

Level of Harmonization

This standard uses the IEC format but is not based on, nor is it considered equivalent to, an IEC standard.

This standard is published as an identical standard for CSA Group and UL.

An identical standard is a standard that is exactly the same in technical content except for national differences resulting from conflicts in codes and governmental regulations. Presentation is word for word except for editorial changes.

Reasons for Differences From IEC

There is no corresponding IEC standard.

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.

The following people served as members of STP 60079 and participated in the review of this standard:

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1 Scope

1.1 Introduction

1.1.1 The purpose of this standard is to provide minimum requirements for the design, construction, and marking of electrical equipment or parts of such equipment for use in Class I and Class II, Division 2 and Class III, Divisions 1 and 2 hazardous (classified) locations.

1.1.2 This equipment, in normal operation, is not capable of causing ignition of the surrounding atmosphere under the conditions prescribed in this standard, although the equipment may contain electronic components used in an incendive circuit and may also have field wiring that is an incendive circuit.

1.1.3 In addition, it is the intent of this document to establish uniformity in test methods for determining the suitability of the equipment and associated circuits and components as they relate to potential ignition of a specific flammable gas or vapour-in-air mixture, combustible dust, easily ignitible fibers, or flyings.

1.2 Applicable to Class I and II, Division 2 and Class III, Divisions 1 and 2 locations

1.2.1 This standard applies only to equipment, circuits, and components for use in Class I and II, Division 2 and Class III, Divisions 1 and 2 hazardous (classified) locations as defined in the National Electrical Code® (NEC®) ANSI/NFPA 70 or in the Canadian Electrical Code, Part I (CE Code, Part I) CSA C22.1.

NOTE 1 Some equipment designed for use in unclassified locations is permitted by the NEC® or CE Code, Part I for installation in Division 2 locations. The judgment of acceptability for the installation would be determined by the authority having jurisdiction. Such equipment would not have the hazardous location marking or documentation described in this standard. It is anticipated that such equipment would comply with the other requirements in this standard and that the determination of compliance is elementary (e.g., a nonarcing instrument inside a Type 4 or Type 12 enclosure used in a Class II, Division 2 location).

NOTE 2 Throughout this standard, references to CAN/CSA C22.2 No. 60079-0 and UL 60079-0 are made as CSA/UL 60079-0. Similarly references to CAN/CSA C22.2 No. 60079-1 and UL 60079-1 are made as CSA/UL 60079-1. Similarly references to CAN/CSA C22.2 No. 60079-11 and UL 60079-11 are made as CSA/UL 60079-11. Similarly references to CAN/CSA C22.2 No. 60079-15 and UL 60079-15 are made as CSA/UL 60079-15.

NOTE 3 The US and Canadian adoptions of IEC 60079-0, IEC 60079-1, IEC 60079-6, IEC 60079-11, and IEC 60079-15 may be adopted at different revision levels and may have different National Deviations.