



National Differences For

Low-Voltage Switchgear and Controlgear – Part 7-3: Ancillary Equipment – Safety Requirements for Fuse Terminal Blocks

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Low-Voltage Switchgear and Controlgear – Part 7-3: Ancillary Equipment – Safety Requirements for Fuse Terminal Blocks

Third Edition

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This revision of ANSI/UL 60947-7-3 is to revise the National Differences to include Canada. This standard is harmonized for Canada, Mexico and the United States and co-published by all three standards development organizations (CSA Group, ANCE and UL).

This document provides a single listing of the National Differences included in the UL adoption of the corresponding IEC standard.

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Preface

This document provides a single listing of the technical National Differences included in the UL adoption of the corresponding IEC standard.

In its IEC-based standards, UL uses the notations indicated below to identify national difference type, and these types are additionally noted in this document. The standard may not use all types of these deviations.

D1 - These are deviations which are based on basic safety principles and requirements, elimination of which would compromise safety for U.S. consumers and users of products.

D2 - These are deviations based on safety practices. These are deviations for IEC requirements that may be acceptable, but adopting the IEC requirements would require considerable retesting or redesign on the manufacturer's part.

DC - These are deviations based on the component standards and will not be deleted until a particular component standard is harmonized with the IEC component standard.

DE - These are deviations based on editorial comments or corrections.

DR - These are deviations based on the national regulatory requirements.

Each national difference contains a description of what the national difference entails. Typically one of the following words is used to explain how the text of the national difference is to be applied to the base IEC text:

Addition / Add - An addition entails adding a complete new numbered clause, subclause, table, figure, or annex. Addition is not meant to include adding select words to the base IEC text.

Deletion / Delete - A deletion entails complete deletion of an entire numbered clause, subclause, table, figure, or annex without any replacement text.

Modification / Modify - A modification is an altering of the existing base IEC text such as the addition, replacement or deletion of certain words or the replacement of an entire clause, subclause, table, figure, or annex of the base IEC text.

National Differences

1.1DV D2 Modification by adding the following:

This standard specifies requirements for fuse terminal blocks with screw-type or screwless-type clamping units for the connection of rigid (solid or stranded) or flexible copper conductors for the reception of cartridge fuse-links, in accordance with Annex DVB, National Electrical Code, NFPA 70 (for use in the USA), CSA C22.1–15 Canadian Electrical Code, Part I (for use in Canada), and NOM-001-SEDE, Electrical Installations (Utility) [for use in Mexico].

1.2DV DR Modification by adding the following:

For a list of Canada, Mexico, and USA Normative Standards, see Annex DVA of this standard.

2.1DV D2 Modification by replacing 2.1 with the following:

fuse terminal block: terminal block base with or without a fuse carrier.

3DV.1 D2 Modification by adding the following item:

cDV) fuse terminal block without a fuse-carrier, e.g. fixed mounted fuse clips.

3DV.2 D2 Modification by adding the following:

Clause 3, Classification, of Annex DVA, Item A applies.

3DV.3 D3 Modification by adding the following:

In Canada, the general requirements applicable to this Standard are provided in CAN/CSA-C22.2 No. 0.

4.1DV D2 Addition:

Dimensions of cartridge fuse-link shall be stated.

4.2DV D2 Modification by adding the following:

Subclause 4.2 does not apply in the United States.

4.3DV D2 Modification by adding 4.3.7DV and 4.3.8DV:

4.3.7DV D2 Type of terminal block

Subclause 4.2, Type of terminal block, of Annex DVA, Item A applies.

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4.3.8DV D2 Rated and limiting values

Subclause 4.3.6DV.1, Rated and limiting values, of Annex DVA, Item A applies.

5.2DV.1 D2 Modification by replacing item a) with the following:

a) to Annex DVA, Item F (NMX-J-515-ANCE), if the manufacturer claims compliance with this standard;

5.2DV.2 D2 Deletion of items g) and h):

These items are not applicable.

5.2DV.3 D2 Modification by adding the following:

Subclause 5.2DV, Additional information, of Annex DVA, Item A applies.

5.3DV D2 Deletion:

Subclause 5.3 does not apply.

7.1DV D2 Modification by adding the following:

Subclause 7.1, Constructional requirements, of Annex DVA, Item A applies as modified by the requirements of 7.1.1 through 7.1.9– DV and addition of 7.1.5– DV.

7.1.1DV D2 Modification by replacing 7.1.1 with the following:

7.1.1DV.1 A metal part for mounting or holding contact clips shall be securely and rigidly fastened to the supporting base or mounting surface. All current-carrying parts shall be prevented from turning or shifting in position by means other than friction between surfaces.

NOTE: Turning or shifting may be prevented by the use of two screws or rivets, by noncircular shoulders or mortises, by a dowel pin, lug, or offset, by a connecting strap or clip fitted into an adjacent part, or by an equivalent method.

7.1.1DV.2 For Canada and the USA, where parts are held together by screws, a threaded part shall not have fewer than two full, clean-cut threads. Threads shall not be finer than 12-24, 10-32, 8-32, and 6-36 if the screw extends all the way through the threaded part. If the screw does not extend all the way through the threaded part, it shall engage full, clean-cut threads for a distance of not less than the diameter of the screw.

7.1.1DV.3 Copper and brass are not acceptable for the plating of an iron or steel wire-binding screw, nut, or stud terminal, but a plating of zinc is acceptable.

7.1.2DV D2 Modification by adding the following:

7.1.2DV.1 A mounting-screw hole shall be located or countersunk so that there will be a spacing of not less than 12.7 mm over the surface of the insulating material between the head of the screw or washer and the nearest uninsulated live part.