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Transfer Switch Equipment

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Preface

This is the harmonized ANCE, CSA, and UL standard for transfer switch equipment. It is the first edition of NMX-J-672-ANCE, the second edition of CSA C22.2 No. 178.1, and the seventh edition of UL 1008. This edition of CSA C22.2 No. 178.1 supersedes the previous edition(s) published in 2007. This edition of UL 1008 supersedes the previous edition(s) published April 15, 2011.

This harmonized standard was prepared by the Association of Standardization and Certification (ANCE), Canadian Standards Association (CSA), and Underwriters Laboratories Inc. (UL). The efforts and support of the Technical Harmonization Subcommittee for Transfer Switches, of the Council of the Harmonization of Electrotechnical Standards for 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.

The present Mexican Standard was developed by the CT CDI Control y Distribución Industrial from the Comité de Normalización de la Asociación de Normalización y Certificación, A.C., CONANCE, with the collaboration of the transfer switch manufacturers and users.

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 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 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 to be considered equivalent to, an IEC standard.

This standard is published as an equivalent standard for ANCE, 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 and 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 to be 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 shall be 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.

ANCE effective date

The effective date for ANCE will be announced through the Diario Oficial de la Federación (Official Gazette) and is indicated on the cover page.

CSA effective date

The effective date for CSA International will be announced through *CSA Informs* or a CSA Certification Notice.

UL effective date

The effective date for UL is being determined.

A UL effective date is established by Underwriters Laboratories Inc. and is not part of the ANSI approved standard.

TRANSFER SWITCH EQUIPMENT

1 Scope

1.1 This standard applies to:

a) Automatic transfer switches;

b) Manual or non-automatic transfer switches;

c) Closed transition transfer switches;

d) Hybrid transfer switches;

e) Transfer switches for fire pumps;

f) Bypass/isolating switches;

g) Softload transfer switches; and

h) Transfer switches intended for use as service equipment;

that have a maximum rating of 600 volts for use in non-hazardous locations, in accordance with Annex A1, Item 1.

1.2 This standard specifically does not apply to:

a) Double-throw switches for use in optional standby systems;

b) Switches used in equipment manufactured in accordance with Annex A1, Item 9;

c) In Canada, manually operated generator transfer panels in accordance with Annex A1, Item 12.

d) Transfer switches rated over 600 V; and

e) Solid-state (static) transfer equipment.

1.3 These requirements apply to transfer switches and their associated control devices including voltage sensing relays, frequency sensing relays, time-delay relays, and the like.

1.4 These requirements apply to completely enclosed transfer switches and to open types intended for mounting in other equipment such as switchboards.

1.5 These requirements apply to bypass/isolation switches used to manually select an available power source to feed load circuits and to provide for total isolation of an automatic transfer switch. These switches may be completely enclosed, enclosed with the transfer switch, or of the open type intended for mounting in other equipment. Refer to Annex D.