

Metal-Enclosed High Voltage Busways



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Revision History

CSA C22.2 No. 201:M84, Metal-Enclosed High Voltage Busways

National Standard of Canada — June 2019
Outside front cover, National Standard of Canada text, and title page. 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.

Update No. 3

C22.2 No. 201-M1984

March 2015

Note: General Instructions for CSA Group Standards are now called Updates. For information about the **Standards Update Service** or if you are missing any updates, go to shop.csa.ca or e-mail techsupport@csagroup.org.

Title: *Metal-Enclosed High Voltage Busways* — originally published June 1984

Revisions issued: General Instruction No. 2 — August 1986

The following revisions have been formally approved and are marked by the symbol delta (Δ) in the margin on the attached replacement pages:

Revised	Clause 1.2
New	None
Deleted	None

- Update your copy by inserting these revised pages.
- Keep the pages you remove for reference.

C22.2 No. 201-M1984

Metal-Enclosed High Voltage Busways

1 Scope

1.1

This Standard applies to indoor and outdoor metal-enclosed busways for voltages from 751 V to 47.5 kV, inclusive, ac or dc, intended to be used in nonhazardous locations in accordance with the rules of the Canadian Electrical Code, Part I.

Δ 1.2

This Standard includes straight bus sections, elbows, tees, adapter boxes, wall flanges, forced-cooled and nonforced-cooled busways, isolating links, and expansion joints. It includes constructions with rigid bus conductors only.

1.3

This Standard applies to busways using air as part of the insulation system but excludes gases (other than air) and solid or liquid insulation systems.

2 Definitions

2.1

The following definitions apply in this Standard:

Isolated phase busway means a busway in which each phase conductor is enclosed by an individual metal housing separated from adjacent conductor housings by an air space.

Metal-enclosed busway means an assembly of conductors with associated connections, joints, and insulating supports within a grounded metal enclosure.

Nonsegregated phase busway means a busway in which all phase conductors are in a common metal enclosure without barriers between the phases.

Segregated phase busway means a busway in which all phase conductors are in a common metal enclosure, but are segregated by metal barriers between phases.

Note: *Busways may be self-cooled, or they may be forced-cooled by means of a circulating gas or liquid.*

3 General requirements

3.1

General requirements applicable to this Standard are given in the latest issue of CSA Standard C22.2 No. 0, General requirements — Canadian Electrical Code, Part II.

3.2 Reference publications

3.2.1

Where reference is made to other publications, such reference shall be considered to refer to the latest edition and any revision(s) thereto, approved by the organization issuing that publication:

CSA Standards

C22.1-1982,

Canadian Electrical Code, Part I;

C22.2 No. 0-M1982,

General Requirements — Canadian Electrical Code, Part II;

C22.2 No. 94-1976,

Special Purpose Enclosures 2, 3, 4, and 5.

ANSI* Standard

C37.20-1974,

Switchgear Assemblies Including Metal-Enclosed Bus.

EEMAC† Standards

G8-2-1972,

Switchgear Assemblies;

G11-1-1972,

Measurement of Corona in Switchgear Assemblies.

*American National Standards Institute.

†Electrical and Electronic Manufacturers Association of Canada.

4 Construction

4.1 General

Busways shall have sufficient strength to maintain their shapes and for the covers to fit properly.

4.2 Thickness of metal

The thickness of sheet metal enclosures shall be not less than 1.69 mm if of steel and not less than 2.00 mm if of metal other than steel.

4.3 Protection against rusting

Enclosures and fittings of sheet steel shall be protected against rust both inside and outside by painting, enamelling, galvanizing, plating, or other suitable means. See CSA Standard C22.2 No. 0.

4.4 Bus conductor supports

Bus conductor supports shall be of fire-retardant, track-resistant insulating material and shall be spaced and have sufficient strength to withstand mechanical loading and to resist satisfactorily short circuit stresses.

4.5 Current-carrying parts

4.5.1

Ferrous fastening devices, if suitably protected against corrosion, shall be permitted to secure pressure wire connectors and to bolt together sections of conductors.

General Instruction No. 2

C22.2 No. 201-M1984

August 1986

CSA Standard C22.2 No. 201-M1984, Metal-Enclosed High Voltage Busways, was published in June 1984; it consisted of 21 pages, each of which was dated June 1984.

An amendment to Clause 1.2 has been formally approved and is incorporated (and identified by a vertical line in the margin) in the attached replacement pages.

CSA Standard C22.2 No. 201-M1984 now consists of the following pages:

3—8, 11—21 dated **June 1984**;

9, 10 dated **August 1986**.

These replacement pages are to be inserted into your copy of the Standard; the pages replaced should be kept for reference.

C22.2 No. 201-M1984

Metal-Enclosed High Voltage Busways

1. Scope

1.1

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1.2*

This Standard includes straight bus sections, elbows, tees, adapter boxes, wall flanges, forced-cooled and nonforced-cooled busways, isolating links, and expansion joints.

It includes constructions with rigid bus or cable type conductors.

***Effective Date**—August 31, 1986

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C22.2 No. 0-M1982,

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C22.2 No. 94-1976,

Special Purpose Enclosures 2, 3, 4, and 5.

ANSI* Standard

C37.20-1974,

Switchgear Assemblies Including Metal-Enclosed Bus.

EEMAC† Standards

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G11-1-1972,

Measurement of Corona in Switchgear Assemblies.

*American National Standards Institute.

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Standards Update Service

CSA C22.2 No. 201:M84

June 1984

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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 to judge its suitability for their particular purpose.

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Busways



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