



SLOVENSKI STANDARD
SIST EN 60439-2:1996

01-maj-1996

Sestavi nizkonapetostnih stikalnih in krmilnih naprav– 2. del: Posebne zahteve za zbiralčne razdelilne sisteme (zbiralčna vodila)

Low-voltage switchgear and controlgear assemblies -- Part 2: Particular requirements for busbar trunking systems (busways)

Niederspannung-Schaltgerätekombinationen -- Teil 2: Besondere Anforderungen an Schienenverteiler

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Ensembles d'appareillage à basse tension -- Partie 2: Règles particulières pour les canalisations préfabriquées

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Ta slovenski standard je istoveten z: EN 60439-2:1993

ICS:

29.130.20	Nizkonapetostne stikalne in krmilne naprave	Low voltage switchgear and controlgear
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en

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UDC 621.316.54

Descriptors: Low-voltage switchgear and controlgear, assembly, busbar trunking system

ENGLISH VERSION

Low-voltage switchgear and controlgear assemblies
Part 2: Particular requirements for busbar
trunking systems (busways)
(IEC 439-2:1987 + A1:1991, modified)

Ensembles d'appareillage à basse
tension
Deuxième partie: Règles
particulières pour les
canalisations préfabriquées
(CEI 439-2:1987 + A1:1991
modifiés)

Niederspannung-Schaltgeräte-
kombinationen
Teil 2: Besondere Anforderungen
an Schienenverteiler
(IEC 439-2:1987 + A1:1991,
modifiziert)

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This European Standard was approved by CENELEC on 1991-12-10. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B-1050 Brussels

FOREWORD

The CENELEC questionnaire procedure, performed for finding out whether or not the International Standard IEC 439-2:1987 could be accepted without textual changes, has shown that some common modifications were necessary for the acceptance as European Standard.

The reference document, together with the common modifications prepared by the CENELEC Technical Committee TC 17D, Low-voltage switchgear and controlgear assemblies, and its amendment 1:1991 was submitted to the CENELEC members for formal vote.

The text of the draft was approved by CENELEC as EN 60439-2 on 10 December 1991.

The following dates were fixed:

- latest date of publication of an identical national standard (dop) 1993-12-01
- latest date of withdrawal of conflicting national standards (dow) 1993-12-01

For products which have complied with the relevant national standard before 1993-12-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1998-12-01.

As agreed previously, the terms defined in this standard are given in the three official CENELEC languages (English, French and German), see annex ZC.

Annexes designated "normative" are part of the body of the standard. In this standard, annexes ZA and ZC are normative.

Busbar trunking systems (busways) shall comply with all requirements of EN 60439-1:1990, "Low-voltage switchgear and controlgear assemblies, Part 1: Requirements for type-tested and partially type-tested assemblies", if not otherwise indicated hereinafter and shall also comply with the particular requirements contained in this standard.

The clauses of this standard supplement, modify or replace clauses in EN 60439-1.

Where there is no corresponding clause or subclause in this standard, the clause or subclause of the main document applies without modification.

In view of the fact that this standard should be read in conjunction with EN 60439-1, the numbering of its clauses and subclauses correspond to the latter.

ENDORSEMENT NOTICE

The text of the International Standard IEC 439-2:1987 and its amendment 1:1991 was approved by CENELEC as a European Standard with common modifications as given below.

COMMON MODIFICATIONS

Replace the references to "IEC Publication 570" by "EN 60570"
"IEC Publication 439-1" by "EN 60439-1"

Clause Modification1 **General**

1.1 Replace the added paragraph by:

This standard applies to busbar trunking systems and their accessories. It also applies to busbar trunking systems intended to supply luminaires through tap-off units but does not apply to supply track systems in accordance with EN 60570.

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1.2 Add the following paragraph:

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The busbar trunking systems considered in this standard are type-tested assemblies (TTA).

Add:

3 **Classification of assemblies**

Add as last item:

- the mechanical loads they can withstand (see Sub-clause 7.1.1).

5 **Information to be given regarding the assembly**

5.1 Add:

Add after the first paragraph:

One nameplate should be located near one end of each busbar trunking unit and one each tap-off unit.

Replace the text of item r) by: resistance, reactance and impedance values.

COMMON MODIFICATIONS

7 Design and construction

Add:

7.4.3.1.1 Add the following text:

In busbar trunking systems with trolley-type tap-off facilities constructional precautions shall be taken to ensure good and permanent conductivity between the exposed conductive parts of a tap-off unit and the stationary exposed conductive parts of the trunking system, in particular, when the enclosure of the fixed unit is part of the protective circuits of the installation.

8 Test specifications

8.1.1 Replace "Publication 439-1" by "EN 60439-1" (7 times)

Replace "of this publication" by "of this European Standard"
(3 times)

In item h) replace "and reactance" by ", reactance and impedance"

In the note replace "of the publication" by "of the European Standard".

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ANNEX ZA (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD
WITH THE REFERENCES OF THE RELEVANT EUROPEAN PUBLICATIONS

When the international publication has been modified by CENELEC common modifications, indicated by (mod), the relevant EN/HD applies.

<u>IEC</u>	<u>Publication</u>	<u>Date</u>	<u>Title</u>	<u>EN/HD</u>	<u>Date</u>
	439-1, mod	1985	Low-voltage switchgear and controlgear assemblies - Part 1: Requirements for type-tested and partially type-tested assemblies	EN 60439-1	1990
	570, mod	1985	Electrical supply track systems for luminaires	EN 60570	1989

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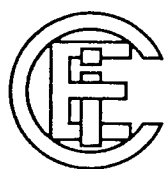
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ANNEX ZC (normative)

- 2.3.4 Busbar trunking system (busway)
fr: Canalisation préfabriquée
de: Schienenverteiler
- 2.3.5 Busbar trunking unit
fr: Élément de canalisation préfabriquée
de: Schienenverteilerelement
- 2.3.6 Busbar trunking unit with tap-off facilities
fr: Canalisation préfabriquée avec possibilité de dérivations
de: Schienenverteilerelement mit Abgangsstellen
- 2.3.7 Busbar trunking unit with trolley-type tap-off facilities
fr: Élément de canalisation préfabriquée avec possibilité de dérivation par chariot collecteur
de: Schienenverteilerelement mit Abgangsmöglichkeiten für Stromabnehmer
- 2.3.8 Busbar trunking adapter unit
fr: Élément de canalisation préfabriquée d'adaptation
de: Schienenverteilerelement zur Adaption
- 2.3.9 Busbar trunking expansion unit
fr: Élément de canalisation préfabriquée de dilatation
de: Schienenverteilerelement zum Dehnungsausgleich
- 2.3.10 Busbar phase transposition unit
fr: Élément de canalisation préfabriquée de transposition de phases
de: Schienenverteilerelement zum Wechsel der Außenleiterlage
- 2.3.11 Flexible busbar trunking unit
fr: Élément flexible de canaliation préfabriquée
de: Schienenverteilerelement zur flexiblen Verlegung
- 2.3.12 Busbar trunking feeder unit
fr: Élément de canalisation préfabriquée d'alimentation
de: Schienenverteilerelement zur Einspeisung
- 2.3.13 Tap-off unit
fr: Élément de dérivation
de: Abgangskasten

NORME INTERNATIONALE INTERNATIONAL STANDARD

CEI
IEC
439-2



Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

Deuxième édition
Second edition
1987

Ensembles d'appareillage à basse tension

Deuxième partie: Règles particulières pour les canalisations préfabriquées

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Low-voltage switchgear and controlgear assemblies

Part 2: Particular requirements for busbar trunking systems (busways)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR ASSEMBLIESPart 2: Particular requirements for busbar
trunking systems (busways)

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.
- 4) The IEC has not laid down any procedure concerning marking as an indication of approval and has no responsibility when an item of equipment is declared to comply with one of its recommendations.

PREFACE

This standard has been prepared by Sub-Committee 17D: Low-voltage switchgear and controlgear assemblies, of IEC Technical Committee No. 17: Switchgear and controlgear.

This second edition replaces the first edition of IEC Publication 439-2 (1975) as well as Amendment No. 1 (1979).

The text of this standard is based upon the following documents:

Six Months' Rule	Report on Voting
17D(C0)33	17D(C0)34

Full information on the voting for the approval of this standard can be found in the Voting Report indicated in the above table.

Busbar trunking systems (busways) shall comply with all requirements of IEC Publication 439-1: Low-voltage switchgear and controlgear assemblies, Part 1: Requirements for type-tested and partially type-tested assemblies, if not otherwise indicated hereinafter and shall also comply with the particular requirements contained in this publication.