
Sestavi nizkonapetostnih stikalnih naprav - 5. del: Posebne zahteve za sestave, predvidene za javna elektroenergetska razdelilna omrežja (IEC 60439-5:2006)

(istoveten EN 60439-5:2006)

Low-voltage switchgear and controlgear assemblies - Part 5: Particular requirements for assemblies for power distribution in public networks (IEC 60439-5:2006)

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English version

**Low-voltage switchgear and controlgear assemblies
Part 5: Particular requirements for assemblies
for power distribution in public networks
(IEC 60439-5:2006)**

Ensembles d'appareillage
à basse tension
Partie 5: Règles particulières
pour les ensembles pour réseaux
de distribution publics
(CEI 60439-5:2006)

Niederspannungs-
Schaltgerätekombinationen
Teil 5: Besondere Anforderungen
für Schaltgerätekombinationen
in Energieverteilungsnetzen
(IEC 60439-5:2006)

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This European Standard was approved by CENELEC on 2006-09-01. 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, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the 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 text of document 17D/334/FDIS, future edition 2 of IEC 60439-5, prepared by SC 17D, Low-voltage switchgear and controlgear assemblies, of IEC TC 17, Switchgear and controlgear, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60439-5 on 2006-09-01.

This European Standard supersedes EN 60439-5:1996 + A1:1998 and EN 50300:2004.

The main change with respect to EN 60439-5:1996 is the inclusion of substation cable distribution boards (SCDBs). The title has therefore been amended.

In view of the fact that this publication should be read in conjunction with EN 60439-1:1999, the numbering of its clauses and subclauses correspond with the latter. 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.

Clauses, subclauses, figures and tables which are additional to those in Part 1 are numbered starting from 101.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2007-06-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2009-09-01

Annexes ZA and ZB have been added by CENELEC.
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Endorsement notice

The text of the International Standard IEC 60439-5:2006 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-11	1981	Environmental testing Part 2: Tests - Test Ka: Salt mist	EN 60068-2-11	1999
IEC 60068-2-30	2005	Environmental testing Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	EN 60068-2-30	2005
IEC 60238	2004	Edison screw lampholders	EN 60238 + corr. January	2004 2005
IEC 60269-1	1998	Low-voltage fuses Part 1: General requirements	EN 60269-1	1998
IEC 60439-1 A1	1999 2004	Low-voltage switchgear and controlgear assemblies Part 1: Type-tested and partially type-tested assemblies	EN 60439-1 A1	1999 2004
IEC 60446	1999	Basic and safety principles for man-machine interface, marking and identification - Identification of conductors by colours or numerals	EN 60446	1999
IEC 60529 A1	1989 1999	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May A1	1991 1993 2000
IEC 60695-11-10	1999	Fire hazard testing Part 11-10: Test flames - 50 W horizontal and vertical flame test methods	EN 60695-11-10	1999
ISO 3231	1993	Paints and varnishes - Determination of resistance to humid atmospheres containing sulphur dioxide	EN ISO 3231	1997
ISO 4628-3	2003	Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance Part 3: Assessment of degree of rusting	EN ISO 4628-3	2003
ISO 4892-2	1994	Plastics - Methods of exposure to laboratory light sources Part 2: Xenon arc sources	EN ISO 4892-2	1999
ISO 6506-1	2005	Metallic materials - Brinell hardness test Part 1: Test method	EN ISO 6506-1	2005

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO 9223	1992	Corrosion of metals and alloys - Corrosivity of - atmosphere - Classification		-

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Annex ZB (informative)

A-deviations

A-deviation: National deviation due to regulations, the alteration of which is for the time being outside the competence of the CENELEC member.

This European Standard falls under Directive 73/23/EEC

NOTE (from CEN/CENELEC IR Part 2:2002 , 2.17) Where standards fall under EC Directives, it is the view of the Commission of the European Communities (OJ No C 59, 1982-03-09) that the effect of the decision of the Court of Justice in case 815/79 Cremonini/Vrankovich (European Court Reports 1980, p. 3583) is that compliance with A-deviations is no longer mandatory and that the free movement of products complying with such a standard should not be restricted except under the safeguard procedure provided for in the relevant Directive.

A-deviations in an EFTA-country are valid instead of the relevant provisions of the European Standard in that country until they have been removed.

<u>Clause</u>	<u>Deviation</u>
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2.1.102	Spain (Royal Decree 842/2002 (Reglamento Electrotécnico de Baja Tensión), Article 14)
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The configuration of some parts of the electrical installations, including the assemblies for public distribution cables, are under the responsibility of the utilities.

Furthermore, the requirements may be different for each region in Spain and be regulated by regional legislation.

[SIST EN 60439-5:2007](https://standards.iteh.ai/catalog/standards/sist/2563b050-7a51-4ea7-aa8b-fddbc2d3f85/sist-en-60439-5-2007)

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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC

60439-5

Deuxième édition
Second edition
2006-06

Ensembles d'appareillage à basse tension –

**Partie 5:
Règles particulières pour les ensembles
pour réseaux de distribution publics**

iTeh STANDARD PREVIEW

**Low-voltage switchgear and
controlgear assemblies –**

SIST EN 60439-5:2007

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**Part 5:
Particular requirements for assemblies
for power distribution in public networks**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR ASSEMBLIES –**Part 5: Particular requirements for assemblies
for power distribution in public networks**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60439-5 has been prepared by subcommittee 17D: Low-voltage switchgear and controlgear assemblies, of IEC technical committee 17: Switchgear and controlgear.

This second edition cancels and replaces the first edition (1996) and its amendment 1 (1998). It constitutes a technical revision due to the inclusion of substation cable distribution boards (SCDBs). The title has therefore been amended.

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

FDIS	Report on voting
17D/334/FDIS	17D/335/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

In view of the fact that this publication should be read in conjunction with IEC 60439-1 (1999), the numbering of its clauses and subclauses correspond with the latter. The clauses of this standard supplement, modify or replace clauses in IEC 60439-1.

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

Clauses, subclauses, figures and tables which are additional to those in Part 1 are numbered starting from 101.

The IEC 60439 series contains the following parts, under the general title *Low-voltage switchgear and controlgear assemblies*:

- Part 1: Type-tested and partially type-tested assemblies
- Part 2: Particular requirements for busbar trunking systems (busways)
- Part 3: Particular requirements for low-voltage switchgear and controlgear assemblies intended to be installed in places where unskilled persons have access for their use – Distribution boards
- Part 4: Particular requirements for assemblies for construction sites (ACS)
- Part 5: Particular requirements for assemblies for power distribution in public networks

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed; [SIST EN 60439-5:2007](https://standards.iteh.ai/catalog/standards/sist/2563b050-7a51-4ea7-aa8b-bddbc2d3f85/sist-en-60439-5-2007)
- withdrawn; <https://standards.iteh.ai/catalog/standards/sist/2563b050-7a51-4ea7-aa8b-bddbc2d3f85/sist-en-60439-5-2007>
- replaced by a revised edition, or
- amended.