

# SLOVENSKI STANDARD

## SIST EN 60439-4:2005

01-februar-2005

### Nadomešča:

SIST EN 60439-4:1995

SIST EN 60439-4:1995/A1:2000

SIST EN 60439-4:1995/A11:2004

SIST EN 60439-4:1995/A2:2000

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### Sestavi nizkonapetostnih stikalnih in krmilnih naprav – 4. del: Posebne zahteve za sestave na gradbiščih (ACS)

Low-voltage switchgear and controlgear assemblies -- Part 4: Particular requirements for assemblies for construction sites (ACS)

Niederspannungs-Schaltgerätekombinationen -- Teil 4: Besondere Anforderungen an Baustromverteiler (BV)

Ensembles d'appareillage à basse tension -- Partie 4: Règles particulières pour ensembles de chantier (EC)

**Ta slovenski standard je istoveten z: EN 60439-4:2004**

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### ICS:

29.130.20	Nizkonapetostne stikalne in krmilne naprave	Low voltage switchgear and controlgear
91.200	Gradbena tehnologija	Construction technology

**SIST EN 60439-4:2005** en

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EUROPEAN STANDARD

**EN 60439-4**

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2004

ICS 29.130.20

Supersedes EN 60439-4:1991 + A1:1995 + A2:1999 + A11:2004

English version

**Low-voltage switchgear and controlgear assemblies**  
**Part 4: Particular requirements for assemblies for construction sites**  
**(ACS)**  
(IEC 60439-4:2004)

Ensembles d'appareillage à basse tension  
Partie 4: Règles particulières  
pour ensembles de chantier (EC)  
(CEI 60439-4:2004)

Niederspannung-  
Schaltgerätekombinationen  
Teil 4: Besondere Anforderungen  
an Baustromverteiler (BV)  
(IEC 60439-4:2004)

This European Standard was approved by CENELEC on 2004-09-01. 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, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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**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/301/FDIS, future edition 2 of IEC 60439-4, 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 60439-4 on 2004-09-01.

This European Standard supersedes EN 60439-4:1991 + A1:1995 + A2:1999 + A11:2004 + corrigendum March 2004.

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) 2005-06-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2007-09-01

The main changes with respect to EN 60439-4:1991 and its amendments are:

- introduction of the definition for "rated current of ACS";
- replacement of classification based on the rated current of ACS by classification based on the function as assigned by the manufacturer;
- amended requirements for the protection of socket-outlets with reference to the more comprehensive requirements of HD 384.7.704 S1:2000;
- introduction of common requirements for all types of ACS.

Assemblies for construction sites (ACS) shall comply with all requirements of EN 60439-1:1999 if not otherwise indicated hereinafter and shall also comply with the particular requirements contained in this publication.

The clauses of subclauses of this standard supplements, modify or replace the respective clauses and subclauses in EN 60439-1:1999.

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 to the latter.

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

Subclauses and figures which are additional to those in part 1 are numbered starting from 101.

Annexes ZA and ZB have been added by CENELEC.

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**Endorsement notice**

The text of the International Standard IEC 60439-4:2004 was approved by CENELEC as a European Standard without any modification.

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## Annex ZA (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 national 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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7.1.3.2	<b>Spain</b> (Low voltage wiring rules; RD 842/2002 dated 2nd August 2002)
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For socket-outlets, the standards UNE-EN 60309-1, UNE-EN 60309-2 and UNE 20315 fig. C2a apply.

7.2	<b>Spain</b> (Low voltage wiring rules; RD 842/2002 dated 2nd August 2002)
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For enclosure, switchgear and controlgear, socket-outlets and other installation elements intended for outdoor construction sites, a minimum degree of protection of IP45 is required.

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## Annex ZB (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 Where 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 60068-2-27	1987	Basic environmental testing procedures Part 2: Tests - Test Ea and guidance: Shock	EN 60068-2-27	1993
IEC 60068-2-42	2003	Part 2-42: Tests - Test Kc: Sulphur dioxide test for contacts and connections	EN 60068-2-42	2003
IEC 60309-1	- <sup>1)</sup>	Plugs, socket-outlets and couplers for industrial purposes Part 1: General requirements	EN 60309-1	1999 <sup>2)</sup>
IEC 60309-2	- <sup>1)</sup>	Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories	EN 60309-2	1999 <sup>2)</sup>
IEC 60364-4-41	2001	Electrical installations of buildings Part 4-41: Protection for safety - Protection against electric shock	-	-
IEC 60364-5-53	2001	Part 5-53: Selection and erection of electrical equipment - Isolation, switching and control	-	-
IEC 60364-7-704 (mod)	1989	Part 7: Requirements for special installations or locations – Section 704: Construction and demolition site installations	HD 384.7.704 S1	2000
IEC 60439-1	1999	Low-voltage switchgear and controlgear assemblies Part 1: Type-tested and partially type- tested assemblies	EN 60439-1	1999
IEC 61140	2001	Protection against electric shock Common aspects for installation and equipment	EN 61140	2002
IEC 61201	1992	Extra-low-voltage (ELV) - Limit values	-	-

1) Undated reference.

2) Valid edition at date of issue.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61558 (mod)	Series	Safety of power transformers, power supply units and similar	EN 61558	Series
IEC 61558-2-23	- <sup>1)</sup>	Part 2-23: Particular requirements for transformers for construction sites	EN 61558-2-23	2000 <sup>2)</sup>

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**NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD**

**CEI  
IEC**

**60439-4**

Deuxième édition  
Second edition  
2004-06

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**Ensembles d'appareillage à basse tension –**

**Partie 4:  
Règles particulières pour ensembles  
de chantier (EC)**

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**Part 4:  
Particular requirements for assemblies  
for construction sites (ACS)**

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Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

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For price, see current catalogue*

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR ASSEMBLIES –****Part 4: Particular requirements for assemblies for construction sites (ACS)**

## 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 60439-4 has been prepared by subcommittee 17D: Low-voltage switchgear and controlgear assemblies, of IEC technical committee 17: Switchgear and controlgear.

This second edition of IEC 60439-4 cancels and replaces the first edition (1990), amendment 1 (1995) and amendment 2 (1999). It constitutes a technical revision.

The following major changes with respect to edition 1 (including amendments 1 and 2) have been incorporated:

- introduction of the definition for "rated current of ACS";
- replacement of classification based on the rated current of ACS by classification based on the function as assigned by the manufacturer;
- amended requirements for the protection of socket-outlets with reference to the more comprehensive requirements of IEC 60364-7-704;
- introduction of common requirements for all types of ACS.