

Low-voltage switchgear and controlgear assemblies —

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

The European Standard EN 60439-4:1991 with the incorporation of amendments A1:1995, A2:1999 and A11:2004 has the status of a British Standard

ICS 29.130.20

Cooperating organizations

The European Committee for Electrotechnical Standardization (CENELEC), under whose supervision this European Standard was prepared, comprises the National Committees of the following countries.

Austria	Italy
Belgium	Luxembourg
Denmark	Netherlands
Finland	Norway
France	Portugal
Germany	Spain
Greece	Sweden
Iceland	Switzerland
Ireland	United Kingdom

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Amendments issued since publication

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10497	February 2000	See national foreword
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National foreword

This British Standard has been prepared by Technical Committee PEL/12 and is the English language version of EN 60439-4:1991, including amendments A1:1995, A2:1999 and A11:2004 and Corrigendum March 2004. It is identical with IEC 60439-4:1990 including amendments 1:1995 and 2:1999.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **[A1]** **[A1]**. Tags indicating changes to the IEC text carry the number of the IEC amendment. For example, text altered by IEC amendment 1 is indicated by **[A1]** **[A1]**.

The foreword and preface of IEC 60439-4:1990 which do not form part of the text of EN 60439-4 have been quoted in National appendix NA.

BS 4363 gives requirements for distribution assemblies for electricity supplies for construction and building sites. BS 7375 gives guidance on the use of distribution assemblies described in BS 4363.

In the UK, installations on construction sites are subject to the regulations of the Health and Safety Executive.

Annexes designated “normative” are part of the body of the standard. Annexes designated “informative” are given for information only. National appendices are designated “informative”.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 25 and a back cover.

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Descriptors: low-voltage switchgear, assemblies for construction site (ACS)

English version

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

(includes amendments A1:1995, A2:1999 and A11:2004)
(IEC 60439-4:1990 + A1:1995 + A2:1999)

Ensembles d'appareillage à basse tension
Quatrième —
Partie 4: Règles particulières pour ensembles
de chantier (EC)
(inclut les amendements A1:1995, A2:1999 et
A11:2004)
(CEI 60439-4:1990 + A1:1995 + A2:1999)

Niederspannung-Schaltgeräte-
kombinationen —
Teil 4: Besondere Anforderungen an
Baustromverteiler (BV)
(enthält Änderungen A1:1995, A2:1999 und
A11:2004)
(IEC 60439-4:1990 + A1:1995 + A2:1999)

This European Standard was approved by CENELEC on 10 December 1990. 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.

CENELEC

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

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Ref. No. EN 60439-4:1991 + A1:1995 + A2:1999 + A11:2004 E

Foreword

Following the decision taken by CENELEC Technical Committee TC 17D at their Brussels meeting in October 1989, the International Standard IEC 439-4:1990 was submitted to the CENELEC Unique Acceptance Procedure (UAP) in April 1990 for acceptance as a European Standard.

The text of the reference document was approved by CENELEC as EN 60439-4 on 10 December 1990.

The following dates were fixed:

- latest date of publication of an identical national standard (dop) 1991-12-01
- latest date of withdrawal of conflicting national standards (dow) 1991-12-01

For products which have complied with the relevant national standard before 1991-12-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1996-12-01.

Annexes designated “normative” are part of the body of the standard. Annexes designated “informative” are given only for information. In this standard, Annex ZA is normative and Annex ZB is informative.

The foreword of the reference document contains the following important information.

Assemblies for construction sites (ACS) 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 publication.

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

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

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

Foreword to amendment A1

The text of document 17D/162/DIS, future amendment 1 to IEC 439-4:1990, 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 amendment A1 to EN 60439-4:1991 on 1995-11-28.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1996-09-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 1996-09-01

For products which have complied with EN 60439-4:1991 before 1996-09-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2001-09-01.

Foreword to amendment A2

The text of document 17D/212A/FDIS, future amendment 2 to 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 amendment A2 to EN 60439-4:1991 on 1999-08-01.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2000-05-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2002-08-01

Annexes designated “normative” are part of the body of the standard.

In this standard, Annex ZA is normative.

Annex ZA has been added by CENELEC.

Foreword to amendment A11

At the request of the Austrian electrotechnical committee, a draft for an amendment to EN 60439-4:1991, was submitted to the CENELEC members for acceptance in May 2003.

The text of the draft was accepted by CENELEC as amendment A11 to EN 60439-4:1991 on 2003-07-25.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2004-06-09
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2004-09-09

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1 General

1.1 Scope

Replace the last three paragraphs by the following.

This standard applies to type-tested assemblies (TTA) intended for use on construction sites, i.e. temporary places of work to which the public do not generally have access and where building construction, installation, repairs, alteration or demolition of property (buildings) or civil engineering (public works) or excavation or any other similar operations are carried out. These assemblies may be transportable (semi-fixed) or mobile.

This standard does not apply to assemblies for use in the administrative centres of construction sites (offices, cloakrooms, assembly rooms, canteens, restaurants, dormitories, toilets, etc.).

NOTE As regards the transformers incorporated in an ACS, it should be noted that both the nominal primary voltage and the nominal secondary voltage must be within the limits specified in IEC 439-1 for this standard to be applicable.

2 Definitions

The definitions of part 1 apply with the following additions and modifications.

2.1.1.2

partially type-tested LV switchgear and controlgear assembly (PTTA)

Not applicable

2.1.1.3

low voltage switchgear and controlgear assembly for construction sites (ACS)

a combination of one or several transforming or switching devices with associated control, measuring, signalling, protective and regulating equipment complete with all their internal electrical and mechanical connections and structural parts (see 2.4), designed and built for use on all construction sites, indoors and outdoors

2.1.10

metering unit

a functional unit equipped with apparatus for metering electrical energy

2.3.1

open-type assembly

not applicable

2.3.2

dead-front assembly

not applicable

2.3.3 enclosed ACS

an ACS which is enclosed on all sides

2.3.3.4

box-type ACS

an enclosed ACS intended:

- either to be mounted on a vertical surface;
- or to stand on a horizontal surface supported by feet or legs (articulated or not) or by a mounting not forming part of the ACS (see 2.4.2)

2.3.4

busbar trunking system

not applicable

2.5.1

assembly for indoor installation

not applicable (see 2.1.1.3)