

TECHNICAL SPECIFICATION

SPECIFICATION TECHNIQUE

**Low-voltage switchgear and controlgear assemblies –
Part 7: Assemblies for specific applications such as marinas, camping sites,
market squares, electric vehicles charging stations**

**Ensembles d'appareillage à basse tension –
Partie 7: Ensembles pour installations publiques particulières telles que
marinas, terrains de camping, marchés et emplacements analogues et pour
borne de charge de véhicules électriques**



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CONTENTS

FOREWORD.....	3
1 Scope.....	6
2 Normative references	6
3 Terms and definitions	7
4 Symbols and abbreviations.....	9
5 Interface characteristics	9
6 Information.....	9
7 Service conditions	10
8 Constructional requirements	10
9 Performance requirements	13
10 Design verification.....	13
11 Routine verification.....	22
Annexes	23
Annex C (informative) User information template	23
Annex P (normative) Verification of the short-circuit withstand strength of busbar structures by comparison with a tested reference design by calculation.....	23
Annex AA (informative) Items subject to agreement between the ASSEMBLY manufacturer and the user.....	24
Annex BB (informative) Design verification	28
Annex CC (informative) List of notes concerning certain countries	29
Bibliography.....	30
Figure 101 – Striker element for test of resistance to mechanical shock impacts induced by sharp-edged objects.....	13
Figure 102 – Diagram of test to verify the resistance to static load.....	15
Figure 103 – Sandbag for test to verify the resistance to shock load	16
Figure 104 – Diagram of test to verify resistance to shock load.....	17
Figure 105 – Diagram of test to verify resistance to torsional stress.....	19
Figure 106 – Diagram of test to verify the mechanical strength of doors.....	20
Figure 107 – Striker element for test of resistance to mechanical shock impacts induced by sharp-edged objects.....	20
Table 101 – Values of assumed loading.....	22
Table AA.1 – Items subject to agreement between the ASSEMBLY manufacturer and the user.....	24
Table BB.1 – List of design verifications to be performed	28

INTERNATIONAL ELECTROTECHNICAL COMMISSION

LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR ASSEMBLIES –**Part 7: Assemblies for specific applications such as marinas, camping sites, market squares, electric vehicles charging stations**

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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The main task of IEC technical committees is to prepare International Standards. In exceptional circumstances, a technical committee may propose the publication of a technical specification.

This document is being issued in the technical specification series of publications (according to the ISO/IEC Directives, Part 1, 3.1.1.1) as a "prospective standard for provisional application" in the field of SC 17D because there is an urgent need for guidance on how standards in this field should be used to meet an identified need.

This document is not to be regarded as an "International Standard". It is proposed for provisional application so that information and experience of its use in practice may be gathered. Comments on the content of this document should be sent to the IEC Central Office.

A review of this technical specification will be carried out not later than 2 years after its publication with the options of: extension for another 3 years; conversion into an International Standard; or withdrawal.

IEC/TS 61439-7, which is a technical specification, has been prepared by subcommittee 17D: Low-voltage switchgear and controlgear assemblies, of IEC technical committee 17: Switchgear and controlgear.

The text of this technical specification is based on the following documents:

FDIS	Report on voting
17D/478/FDIS	17D/482/RVD

Following the result of the vote on the FDIS, a questionnaire was circulated, leading to the decision to publish the project as a Technical Specification.

Questionnaire	Result of voting
17D/487/Q	17D/494/RQ

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

This technical specification is to be read in conjunction with IEC 61439-1. The provisions of the general rules dealt with in IEC 61439-1 (hereinafter referred to as Part 1) are applicable to this technical specification where they are specifically cited. When this technical specification states “addition” “modification” or “replacement”, the relevant text in Part 1 is to be adapted accordingly.

Subclauses that are numbered with a 101 (102, 103, etc.) suffix are additional to the same subclause in Part 1.

Tables and figures in this Part 7 that are new are numbered starting with 101.

New annexes in this Part 7 are lettered AA, BB, etc.

In this standard, terms written in small capitals are defined in Clause 3.

The reader's attention is drawn to the fact that Annex CC lists all of the “in-some-country” clauses on differing practices of a less permanent nature relating to the subject of this technical specification .

A list of all parts of the IEC 61439 series, under the general title *Low-voltage switchgear and controlgear assemblies* can be found on the IEC website.

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

The committee has decided that the contents of this publication will remain unchanged until the stability 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

- transformed into an International standard,
- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR ASSEMBLIES –

Part 7: Assemblies for specific applications such as marinas, camping sites, market squares, electric vehicles charging stations

1 Scope

NOTE 1 Throughout this technical specification, the terms AMHS (see 3.1.101), ACCS (see 3.1.102), AMPS (see 3.1.103), ACSEV (see 3.1.104) are used for low-voltage switchgear and controlgear assemblies intended for use respectively in marinas and similar locations (AMHS), camping sites and similar locations (ACCS), market squares and other similar external public sites (AMPS), charging stations (ACSEV). The term ASSEMBLIES is used for indicating all the boards.

This Part of IEC 61439, which is a Technical Specification, defines the specific requirements of ASSEMBLIES as follows:

- ASSEMBLIES for which the rated voltage does not exceed 1 000 V in case of a.c. or 1 500 V in case of d.c;
- stationary or movable ASSEMBLIES with enclosure;
- ASSEMBLIES intended for use in connection with the generation, transmission, distribution and conversion of electric energy, and for the control of electric energy consuming equipment;
- ASSEMBLIES operated by ordinary persons;
- ASSEMBLIES intended to be installed and used in marinas, camping sites, market squares and other similar external public sites or similar sites;
- ASSEMBLIES intended for charging stations for electric vehicles.

NOTE 2 ASSEMBLIES intended for charging stations for electric vehicles (ACSEV) are designed to integrate the functionality for electric vehicle conductive charging systems according to IEC 61851-1.

This technical specification applies to all ASSEMBLIES whether they are designed, manufactured and verified on a one-off basis or fully standardised and manufactured in quantity.

The manufacture and/or assembly may be carried out other than by the original manufacturer (see 3.10.1 of Part 1).

This technical specification does not apply to individual electrical equipment and self-contained components, such as circuit breakers, fuse switches, electronic equipment, etc. which comply with the relevant product standards.

NOTE 3 Where electrical equipment is directly connected to public low voltage supply system and equipped with a meter for billing of the legal provider of the low voltage supply, particular requirements based on national regulations apply, if any.

This technical specification does not apply to boxes and enclosures for electrical accessories for household and similar fixed electrical installations as defined in IEC 60670-24.

2 Normative references

This clause of Part 1 applies except as follows.

Addition:

IEC 60068-2-75, *Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests*

IEC 60364-4-43, *Low-voltage electrical installations – Part 4-43: Protection for safety – Protection against overcurrent*

IEC 60364-7-708, *Low-voltage electrical installations – Part 7-708: Requirements for special installations or locations – Caravan parks, camping parks and similar locations*

IEC 60364-7-709, *Low-voltage electrical installations – Part 7-709: Requirements for special installations or locations – Marinas and similar locations*

IEC 60364-7-722¹, *Low-voltage electrical installations – Part 7-722: Requirements for special installations or locations – Supply of electric vehicle*

IEC 60364-7-740, *Electrical installations of buildings – Part 7-740: Requirements for special installations or locations – Temporary electrical installations for structures, amusement devices and booths at fairgrounds, amusement parks and circuses*

IEC 61439-1:2011, *Low-voltage switchgear and controlgear assemblies – Part 1: General rules*

3 Terms and definitions

This clause of Part 1 applies except as follows.

3.1 General terms

Additional terms:

3.1.101

low voltage switchgear and controlgear ASSEMBLY for marinas and harbors sites
AMHS

combination of one or more transforming or switching devices together with associated control, measuring, signaling, protective and regulating equipment, with all their internal electrical and mechanical interconnections and structural parts, designed and built for use in all marinas, harbors and similar sites

3.1.102

low voltage switchgear and controlgear ASSEMBLY for camping and caravan sites
ACCS

combination of one or more transforming or switching devices together with associated control, measuring, signaling, protective and regulating equipment, with all their internal electrical and mechanical interconnections and structural parts, designed and built for use in all camping, caravan and similar sites

3.1.103

low voltage switchgear and controlgear ASSEMBLY for markets and other external public sites
AMPS

combination of one or more transforming or switching devices together with associated control, measuring, signaling, protective and regulating equipment, with all their internal electrical and mechanical interconnections and structural parts, designed and built for use in all market squares and other similar external public sites

¹ To be published.