

MADALPINGELISED APARAADIKOOSTED. OSA 2:
JÕUAPARAADIKOOSTED

Low-voltage switchgear and controlgear assemblies -
Part 2: Power switchgear and controlgear assemblies
(IEC 61439-2:2020)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN IEC 61439-2:2021 sisaldab Euroopa standardi EN IEC 61439-2:2021 ingliskeelset teksti.	This Estonian standard EVS-EN IEC 61439-2:2021 consists of the English text of the European standard EN IEC 61439-2:2021.
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English Version

**Low-voltage switchgear and controlgear assemblies - Part 2:
Power switchgear and controlgear assemblies
(IEC 61439-2:2020)**

Ensembles d'appareillage à basse tension - Partie 2:
Ensembles d'appareillage de puissance
(IEC 61439-2:2020)

Niederspannungs-Schaltgerätekombinationen - Teil 2:
Energie-Schaltgerätekombinationen
(IEC 61439-2:2020)

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of document 121B/104/FDIS, future edition 3 of IEC 61439-2, prepared by SC 121B "Low-voltage switchgear and controlgear assemblies" of IEC/TC 121 "Switchgear and controlgear and their assemblies for low voltage" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61439-2:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2021-11-21 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2024-05-21 document have to be withdrawn

This document supersedes EN 61439-2:2011 and all of its amendments and corrigenda (if any).

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This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this document.

Endorsement notice

The text of the International Standard IEC 61439-2:2020 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60269 (series)	NOTE	Harmonized as EN 60269 (series)
IEC 60898 (series)	NOTE	Harmonized as EN 60898 (series)
IEC 60947 (series)	NOTE	Harmonized as EN IEC 60947 (series)
IEC 61008 (series)	NOTE	Harmonized as EN 61008 (series)
IEC 61009 (series)	NOTE	Harmonized as EN 61009 (series)
IEC 61427-1:2013	NOTE	Harmonized as EN 61427-1:2013 (not modified)
IEC 61010-2-201	NOTE	Harmonized as EN IEC 61010-2-201
IEC 61800-5-1	NOTE	Harmonized as EN 61800-5-1
IEC 62093	NOTE	Harmonized as EN 62093
IEC 62124	NOTE	Harmonized as EN 62124
IEC 62423	NOTE	Harmonized as EN 62423

IEC 62446-1:2016	NOTE	Harmonized as EN 62446-1:2016 (not modified)
IEC 62446-1:2016/A1:2018	NOTE	Harmonized as EN 62446-1:2016/A1:2018 (not modified)
IEC 62790	NOTE	Harmonized as EN IEC 62790

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Annex ZA of EN IEC 61439-1:2021 applies with the following addition:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60204-1	2016	Safety of machinery – Electrical equipment of machines – Part 1: General requirements	EN 60204-1	2018
IEC 60947-3	2020	Low-voltage switchgear and controlgear – Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units	EN IEC 60947-3	2021
IEC 61140	2016	Protection against electric shock – Common aspects for installation and equipment	EN 61140	2016
IEC 61439-1	2020	Low-voltage switchgear and controlgear assemblies – Part 1: General rules	EN IEC 61439-1	2021
IEC 62262	2002	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)	EN 62262	2002

Annex ZZ (informative)

Relationship between this European standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered

This European standard has been prepared under a Commission's standardisation request relating to harmonised standards in the field of the Low Voltage Directive, M/511, to provide one voluntary means of conforming to safety objectives of Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits [2014 OJ L96].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding safety objectives of that Directive, and associated EFTA regulations.

Table ZZ.1 — Correspondence between this European standard and Annex I of Directive 2014/35/EU [2014 OJ L96]

Safety objectives of Directive 2014/35/EU	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
(1)(a)	Clauses 6, annex DD.6	
(1)(b)	Clauses 6, annex DD.6	
(1)(c)	See safety objectives 2 a) to 2 d) and 3 a) to 3 c) in this table	
(2)(a)	Clauses 8.2, 8.3, 8.4, 8.5, 8.101, 10.5, 10.6, 10.9, 11.4, 11.5, annex DD.8.1.1, annex DD.8.2, annex DD.8.4, annex DD.5	
(2)(b)	Clauses 7.1, 7.2, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 9.1, 9.2, 9.3, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7, 10.9, 10.10, 10.11, 11.2, 11.3, 11.4, 11.5, 11.6, 11.9, annex DD.7, annex DD.8, annex DD.9.1, annex DD.10.10	
(2)(c)	Clauses 6.2, 7.2, 8.1, 8.2, 8.5, 8.101, 9.2, 9.3, 9.4, 10.2, 10.3, 10.6, 10.10, 10.11, 11.2, 11.5, 11.8, annex J, annex DD.6.2, annex DD.8.2, annex DD.10.10	
(2)(d)	Clauses 5, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 9.1, 9.2, 9.3, 8.101, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7, 10.9, 10.10, 10.11, 11.2, 11.3, 11.4, 11.5, 11.9, 11.10, annex DD.5.2, annex DD.8.1.1, annex DD.8.2.2, annex DD.8.4, annex DD.9.1, annex DD.10	

Safety objectives of Directive 2014/35/EU	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
(3)(a)	Clauses 6.2, 7.2, 8.1, 8.2, 8.101, 9.3, 10.2, 10.11, 11.8, annex DD.6.2, annex DD.8.2	
(3)(b)	Clause 7.1, 7.2, 8.1, 8.2, 8.3, 8.7, 9.1, 9.2, 9.3, 9.4, 10.2, 10.3, 10.4, 10.6, 10.9, 10.10, 10.11, 10.12, 11.2, 11.3, 11.9, annex DD.7 annex DD.8.2, annex DD.8.101, annex DD.8.102, annex DD.9.1, annex DD.10.10, annex DD.10.101, annex DD.10.102	
(3)(c)	Clauses 5.3, 5.4, 8.1, 8.5, 8.6, 9.2, 9.3, 10.2, 10.5, 10.6, 10.7, 10.10, 10.11, 11.4, 11.5, 11.6, 11.8, 11.10, annex E, annex I, annex P, annex D.5.3, annex DD.5.4, annex DD.8.5, annex DD.10.10	

WARNING 1: Presumption of conformity stays valid only as long as a reference to this European standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

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INTERNATIONAL STANDARD

**Low-voltage switchgear and controlgear assemblies –
Part 2: Power switchgear and controlgear assemblies**



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INTERNATIONAL STANDARD

Low-voltage switchgear and controlgear assemblies – Part 2: Power switchgear and controlgear assemblies

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LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR ASSEMBLIES –**Part 2: Power switchgear and controlgear assemblies****FOREWORD**

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International Standard IEC 61439-2 has been prepared by subcommittee 121B: Low-voltage switchgear and controlgear assemblies, of IEC technical committee 121: Switchgear and controlgear and their assemblies for low voltage.

This third edition cancels and replaces the second edition published in 2011. It constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) addition of Annexes DD, EE and FF for assemblies for use in photovoltaic installation;
- b) clarification of the requirements for forms of internal separation and the addition of the requirement, when the form of separation is higher than 1, all parts within the functional unit compartment that remain live when the functional unit is switched off shall be protected to at least IPXXB;
- c) alignment with the structure of IEC 61439-1:2020;