
Visokonapetostne stikalne in krmilne naprave - 318. del: Plinsko izolirane stikalne naprave v kovinskih ohišjih (DC) za naznačene napetosti vključno s 100 kV in več (IEC/TS 62271-318:2024)

High-voltage switchgear and controlgear - Part 318: DC gas-insulated metal-enclosed switchgear for rated voltages including and above 100 kV (IEC/TS 62271-318:2024)

Hochspannungs-Schaltgeräte und -Schaltanlagen - Teil 318: Metallgekapselte gasisolierte Gleichstrom-Schaltanlagen für Bemessungsspannungen größer oder gleich 100 kV (IEC/TS 62271-318:2024)

Appareillage haute tension - Partie 318: Appareillage à courant continu sous enveloppe métallique à isolation gazeuse de tension assignée supérieure ou égale à 100 kV (IEC/TS 62271-318:2024)

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Ta slovenski standard je istoveten z: CLC IEC/TS 62271-318:2025

ICS:

29.130.10	Visokonapetostne stikalne in krmilne naprave	High voltage switchgear and controlgear
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SIST-TS CLC IEC/TS 62271-318:2026 en

TECHNICAL SPECIFICATION
SPÉCIFICATION TECHNIQUE
TECHNISCHE SPEZIFIKATION

CLC IEC/TS 62271-318

December 2025

ICS 29.130.10

English Version

High-voltage switchgear and controlgear - Part 318: DC gas-insulated metal-enclosed switchgear for rated voltages including and above 100 kV
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(IEC/TS 62271-318:2024)

This Technical Specification was approved by CENELEC on 2025-12-08.

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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

CLC IEC/TS 62271-318:2025 (E)**European foreword**

This document (CLC IEC/TS 62271-318:2025) consists of the text of IEC/TS 62271-318:2024 prepared by IEC/TC 17 "High-voltage switchgear and controlgear".

This document is read in conjunction with CLC IEC/TS 62271-5:2025.

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Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Technical Specification/Technical Report IEC/TS 62271-318:2024 was approved by CENELEC as a European Technical Specification/Technical Report without any modification.

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

IEC 60071-12:2022	NOTE	Approved as EN IEC 60071-12:2022 (not modified)
IEC 61672-1:2013	NOTE	Approved as EN 61672-1:2013 (not modified)
IEC 61672-2:2013	NOTE	Approved as EN 61672-2:2013 (not modified)
IEC 62271-203:2022	NOTE	Approved as EN IEC 62271-203:2022 (not modified)
IEC 62271-207:2023	NOTE	Approved as EN IEC 62271-207:2023 (not modified)
IEC 63360	NOTE	Approved as EN IEC 63360
IEC 60071-11	NOTE	Approved as EN IEC 60071-11

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60060-1	2010	High-voltage test techniques - Part 1: General definitions and test requirements	EN 60060-1	2010
IEC 60085	2007	Electrical insulation - Thermal evaluation and designation	EN 60085	2008
IEC 60068-2-11	2021	Environmental testing - Part 2-11: Tests - Test Ka: Salt mist	EN IEC 60068-2-11	2021
IEC 60068-2-17	2023	Environmental testing - Part 2-17: Tests - Test Q: Sealing	EN IEC 60068-2-17	2023
IEC/IEEE 60076-57-129	2017	Power transformers - Part 57-129: Transformers for HVDC applications	-	-
IEC 60099-4	2014	Surge arresters - Part 4: Metal-oxide surge arresters without gaps for a.c. systems	EN 60099-4	2014
IEC 60099-9	2014	Surge arresters - Part 9: Metal-oxide surge arresters without gaps for HVDC converter stations	EN 60099-9	2014
IEC 60137	2017	Insulated bushings for alternating voltages above 1000 V	EN 60137	2017
IEC 60270	2000	High-voltage test techniques - Partial discharge measurements	EN 60270	2001
+ A1	2015		+ A1	2016
IEC 60376	2018	Specification of technical grade sulphur hexafluoride (SF ₆) and complementary gases to be used in its mixtures for use in electrical equipment	EN IEC 60376	2018
IEC 60480	2019	Specifications for the re-use of sulphur hexafluoride (SF ₆) and its mixtures in electrical equipment	EN IEC 60480	2019
IEC/TS 60815-1	2008	Selection and dimensioning of high-voltage insulators intended for use in polluted conditions - Part 1: Definitions, information and general principles	-	-

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC/TS 60815-4	2016	Selection and dimensioning of high-voltage insulators intended for use in polluted conditions - Part 4: Insulators for d.c. systems	-	-
IEC 61869-14	2018	Instrument transformers - Part 14: Additional requirements for current transformers for DC applications	EN IEC 61869-14	2019
IEC 61869-15	2018	Instrument transformers - Part 15: Additional requirements for voltage transformers for DC applications	EN IEC 61869-15	2019
IEC 62271-1	2017	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear	EN 62271-1	2017
IEC 62271-4	-	High-voltage switchgear and controlgear - Part 4: Handling procedures for gases for insulation and/or switching	EN IEC 62271-4	-
IEC/TS 62271-5	2024	High-voltage switchgear and controlgear - Part 5: Common specifications for direct current switchgear and controlgear	CLC IEC/TS 62271-5	2025
IEC 62271-209	2019	High-voltage switchgear and controlgear - Part 209: Cable connections for gas-insulated metal-enclosed switchgear for rated voltages above 52 kV - Fluid-filled and extruded insulation cables - Fluid-filled and dry-type cable-terminations	EN IEC 62271-209	2019
+ AMD1	2022		+ A1	2022
IEC 62271-211	2014	High-voltage switchgear and controlgear - Part 211: Direct connection between power transformers and gas-insulated metal-enclosed switchgear for rated voltages above 52 kV	EN 62271-211	2014
IEC/TR 62271-306	2012	High-voltage switchgear and controlgear - Part 306: Guide to IEC 62271-100, IEC 62271-1 and other IEC standards related to alternating current circuit-breakers	-	-
+ A1	2018		-	-
IEC/TS 62271-313	-	High-voltage switchgear and controlgear - Part 313: Direct current circuit-breakers	-	-
IEC/TS 62271-314	2024	High-voltage switchgear and controlgear - Part 314: Direct current disconnectors and earthing switches	CLC IEC/TS 62271-314	2025
IEC/TS 62271-315	2025	High-voltage switchgear and controlgear - Part 315: Direct current (DC) transfer switches	-	-
IEC 62895	2017	High voltage direct current (HVDC) power transmission - Cables with extruded insulation and their accessories for rated voltages up to 320 kV for land applications - Test methods and requirements	-	-

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO 22479	2019	Corrosion of metals and alloys - Sulfur dioxide test in a humid atmosphere (fixed gas method)	EN ISO 22479	2022
IEC/IEEE 65700-19-03	2014	Bushings for DC application	EN IEC/IEEE 65700-19-03	2018
-	-		+ AC	2019-03

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