



SLOVENSKI STANDARD
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Visokonapetostne stikalne in krmilne naprave - 103. del: Stikala za naznačene napetosti nad 1 kV do vključno 52 kV (IEC 62271-103:2021)

High-voltage switchgear and controlgear - Part 103: Switches for rated voltages above 1 kV up to and including 52 kV (IEC 62271-103:2021)

Hochspannungs-Schaltgeräte und -Schaltanlagen - Teil 103: Lastschalter für Bemessungsspannungen über 1 kV bis einschließlich 52 kV (IEC 62271-103:2021)

Appareillage à haute tension - Partie 103: Interrupteurs pour tensions assignées supérieures à 1 kV et inférieures ou égales à 52 kV (IEC 62271-103:2021)

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ICS:

29.130.10	Visokonapetostne stikalne in krmilne naprave	High voltage switchgear and controlgear
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High-voltage switchgear and controlgear - Part 103: Alternating current switches for rated voltages above 1 kV up to and including 52 kV
(IEC 62271-103:2021)

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Hochspannungs-Schaltgeräte und -Schaltanlagen - Teil 103: Lastschalter für Bemessungsspannungen über 1 kV bis einschließlich 52 kV
(IEC 62271-103:2021)

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

EN IEC 62271-103:2023 (E)**European foreword**

The text of document 17A/1297/FDIS, future edition 2 of IEC 62271-103, prepared by SC 17A "Switching devices" of IEC/TC 17 "High-voltage switchgear and controlgear" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62271-103:2023.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2024-05-10 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2026-11-10 document have to be withdrawn

This document supersedes EN 62271-103:2011 and all of its amendments and corrigenda (if any).

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The text of the International Standard IEC 62271-103:2021 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 60059	NOTE	Harmonized as EN 60059
IEC 62271-105	NOTE	Harmonized as EN 62271-105
IEC 62271-200	NOTE	Harmonized as EN 62271-200
IEC 62271-201	NOTE	Harmonized as EN 62271-201
IEC 60507	NOTE	Harmonized as EN 60507
IEC 62271-100	NOTE	Harmonized as EN 62271-100
IEC 60071-1	NOTE	Harmonized as EN IEC 60071-1

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.cencenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-441	-	International Electrotechnical Vocabulary. Switchgear, controlgear and fuses	-	-
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529	1991
-	-		+ corrigendum May	1993
+ A1	1999		+ A1	2000
+ A2	2013		+ A2	2013
IEC 62262	2002	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)	EN 62262	2002
IEC 62271-1	2017	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear	EN 62271-1	2017
IEC 62271-102	2018	High-voltage switchgear and controlgear - Part 102: Alternating current disconnectors and earthing switches	EN IEC 62271-102	2018
IEC 62271-110	2017	High-voltage switchgear and controlgear - Part 110: Inductive load switching	EN IEC 62271-110	2018

EN IEC 62271-103:2023 (E)**Annex ZB**
(informative)**A-deviations**

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<u>Clause</u>	<u>Deviation</u>
General	<p>Italy</p> <p>CAPITOLO VSR 8.B D.M. 1 DICEMBRE 1980 e succ. Modifiche</p> <p>Disciplina dei contenitori a pressione di gas con membrane miste di materiale isolante e di materiale metallico, contenenti parti attive di apparecchiature elettriche.</p> <p>Gas filled compartments having a design pressure exceeding 0,5 bar (gauge) or a volume exceeding 2 m³ shall be designed according to the Italian pressure vessel code for electrical switchgear.</p>

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INTERNATIONAL STANDARD

NORME INTERNATIONALE



**High-voltage switchgear and controlgear –
Part 103: Alternating current switches for rated voltages above 1 kV up to and
including 52 kV**

**Appareillage à haute tension –
Partie 103: Interrupteurs à courant alternatif pour tensions assignées
supérieures à 1 kV et inférieures ou égales à 52 kV**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HIGH-VOLTAGE SWITCHGEAR AND CONTROLGEAR –

**Part 103: Alternating current switches for rated voltages
above 1 kV up to and including 52 kV**

FOREWORD

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IEC 62271-103 has been prepared by subcommittee 17A: Switching devices, of IEC technical committee 17: High-voltage switchgear and controlgear. It is an International Standard.

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

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

- a) this document has been aligned with IEC 62271-1:2017 and IEC 62271-102:2018;
- b) clarifications regarding the behaviour of the switch during breaking tests regarding current interruption and restrikes have been added;
- c) conditions of the switch after making and breaking tests have been clarified;
- d) a new informative Annex B intended to provide guidance for the calculation of I_{ef1} and I_{ef2} has been added;