

STN	Vysokonapäťové spínacie a riadiace zariadenia Časť 100: Vysokonapäťové vypínače na striedavý prúd Zmena A1	STN EN IEC 62271-100/A1 35 4220
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High-voltage switchgear and controlgear - Part 100: Alternating-current circuit-breakers

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 11/24

STN EN IEC 62271-100 z novembra 2021 sa bez tejto zmeny A1 môže používať do 23. 9. 2027.

Obsahuje: EN IEC 62271-100:2021/A1:2024, IEC 62271-100:2021/AMD1:2024

139555

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2024
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii
v znení neskorších predpisov.

EUROPEAN STANDARD

EN IEC 62271-100:2021/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2024

ICS 29.130.10

English Version

**High-voltage switchgear and controlgear - Part 100: Alternating-current circuit-breakers
(IEC 62271-100:2021/AMD1:2024)**

Appareillage à haute tension - Partie 100: Disjoncteurs à courant alternatif
(IEC 62271-100:2021/AMD1:2024)

Hochspannungs-Schaltgeräte und -Schaltanlagen - Teil 100: Wechselstrom-Leistungsschalter
(IEC 62271-100:2021/AMD1:2024)

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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

EN IEC 62271-100:2021/A1:2024 (E)**European foreword**

The text of document 17A/1406/FDIS, future edition 3 of IEC 62271-100/AMD1, 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 62271-100:2021/A1:2024.

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- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2025-06-23
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IEC 62271-100

Edition 3.0 2024-08

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

**High-voltage switchgear and controlgear –
Part 100: Alternating-current circuit-breakers**

**Appareillage à haute tension –
Partie 100: Disjoncteurs à courant alternatif**





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IEC 62271-100

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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 29.130.10

ISBN 978-2-8322-9543-4

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HIGH-VOLTAGE SWITCHGEAR AND CONTROLGEAR –

Part 100: Alternating current circuit-breakers

AMENDMENT 1

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Amendment 1 to IEC 62271-100:2021 has been prepared by subcommittee 17A: Switching devices, of IEC technical committee 17: High-voltage switchgear and controlgear.

The text of this Amendment is based on the following documents:

Draft	Report on voting
17A/1406/FDIS	17A/1410/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this Amendment is English.

IEC 62271-100:2021/AMD1:2024
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- reconfirmed,
- withdrawn, or
- revised.

INTRODUCTION to Amendment 1

This amendment includes the following significant changes:

In IEC 62271-100:2021 there is a slight difference for the calculation of u_c for T10 in Table 20 and Table 21. The u_c value for T10 shall be the same for k_{pp} 1,3 and k_{pp} 1,5 because both conditions also cover transformer limited faults. For voltage ratings higher than 170 kV u_c also covers cases of three-phase line faults with effectively earthed neutral systems. See also the notes in Table 20 and Table 21. By increasing the k_{af} from 1,76 to 1,765 the u_c values are practically the same again for k_{pp} 1,3 and k_{pp} 1,5.

Furthermore:

- The definition of terminal fault has been updated.
- The description of the time parameters for the rated operated sequence has been updated (the parameters remained the same).
- Rated voltages 15,5; 27 and 40,5 kV added to Table 1.
- Additional criteria for dielectric test added.
- It has been made explicit that partial discharge test only is applicable to GIS and dead-tank circuit-breakers.
- Voltage test as condition check as per 7.2.12.103 added to 7.2.12.101.
- The t_2 for T60 are corrected to the t_2 values of T100.
- TRV values in Table 16, Table 17, Table 18, Table 19, Table 20, Table 22, Table 23, Table 24, Table 25, Table 30 and Table F.1 have been recalculated and updated.
- Requirement on having inrush making current in the same phase as minimum arcing times during three-phase back-to-back capacitor bank current tests.
- Requirement to perform mechanical operating tests on all releases added.
- Existing tolerance for single-phase and double-earth fault added to Table B.1.
- Tolerance for breaking current L_{75} updated in Table B.1.

koniec náhľadu – text ďalej pokračuje v platenej verzii STN