
Visokonapetostne stikalne in krmilne naprave - 1. del: Skupne specifikacije za stikalne in krmilne naprave za izmenični tok - Dopolnilo A1 (IEC 62271-1:2017/AMD1:2021)

High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear (IEC 62271-1:2017/AMD1:2021)

Hochspannungs-Schaltgeräte und -Schaltanlagen - Teil 1: Gemeinsame Bestimmungen für Wechselstrom-Schaltgeräte und -Schaltanlagen (IEC 62271-1:2017/AMD1:2021)

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Appareillage à haute tension - Partie 1: Spécifications communes pour appareillage à courant alternatif (IEC 62271-1:2017/AMD1:2021)

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Ta slovenski standard je istoveten z: EN 62271-1:2017/A1:2021

ICS:

29.130.10	Visokonapetostne stikalne in krmilne naprave	High voltage switchgear and controlgear
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SIST EN 62271-1:2018/A1:2022 **en**

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This amendment A1 modifies the European Standard EN 62271-1:2017; it was approved by CENELEC on 2021-11-08. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

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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 62271-1:2017/A1:2021 (E)**European foreword**

The text of document 17/1106/FDIS, future IEC 62271-1/AMD1, prepared by IEC/TC 17 “High-voltage switchgear and controlgear” was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62271-1:2017/A1:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2022-08-08 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2024-11-08 document have to be withdrawn

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Endorsement notice

The text of the International Standard IEC 62271-1:2017/AMD1:2021 was approved by CENELEC as a European Standard without any modification.

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

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Part 1: Common specifications for alternating current switchgear and
controlgear**

**Appareillage à haute tension –
Partie 1: Spécifications communes pour appareillage à courant alternatif**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HIGH-VOLTAGE SWITCHGEAR AND CONTROLGEAR –

**Part 1: Common specifications for alternating
current switchgear and controlgear****AMENDMENT 1**

FOREWORD

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Amendment 1 to IEC 62271-1:2017 has been prepared by IEC technical committee 17: High-voltage switchgear and controlgear.

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

FDIS	Report on voting
17/1106/FDIS	17/1112/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.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications/.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

6.4.1 General

Replace the existing text of this subclause with the following:

Switchgear and controlgear include all auxiliary and control equipment and circuits, including but not limited to, electronic controls, supervision, monitoring and communication.

Auxiliary and control equipment and circuits shall operate normally when the voltage measured during operation at the supply terminals of the auxiliary and control equipment and circuits:

- is within 85 % to 110 % of rated supply voltage (U_a);
- in the case of DC, a ripple voltage is not greater than 5 % of U_a ;
- is free of the voltage dips and interruptions which exceed the limits declared by the manufacturer according to IEC 61000-4-29 (DC supply voltage) and IEC 61000-4-11 (AC supply voltage).

In case of supply interruptions (also during operations) that exceed the duration limits declared by the manufacturer for normal operation:

- there shall be no false operation, false alarms or false remote signalling resulting from the interruption or re-instatement of the supply;
- the manufacturer shall state the behaviour of the device when the supply voltage gets interrupted (for example impact on internal energy storage);
- the manufacturer shall state the behaviour of the device when the supply voltage returns;
- subsequent actions shall only be completed in response to a new valid operational command (where applicable).

The fulfilment of the above conditions can be demonstrated at any convenient dip duration that exceeds the declared limit.

NOTE 1 Possible actions can be:

- a) completing the pending action without manual intervention such that the equipment achieves a defined, safe operating state for example open, closed, charged, discharged;
- b) manual intervention such that the equipment achieves a defined, safe operating state for example open, closed, charged, discharged;
- c) completing the action after giving another command for the same switching operation that was interrupted.