



SLOVENSKI STANDARD
SIST EN IEC 62477-1:2024/AC:2024
01-september-2024

**Varnostne zahteve za močnostne elektronske pretvorniške sisteme in opremo - 1.
del: Splošno - Popravek AC (IEC 62477-1:2022/COR1:2024)**

Safety requirements for power electronic converter systems and equipment - Part 1:
General (IEC 62477-1:2022/COR1:2024)

Sicherheitsanforderungen an Leistungselektronik-Umrichtersysteme und -betriebsmittel -
Teil 1: Allgemeines (IEC 62477-1:2022/COR1:2024)

Exigences de sécurité applicables aux systèmes et matériels électroniques de
conversion de puissance - Partie 1: Généralités (IEC 62477-1:2022/COR1:2024)

Ta slovenski standard je istoveten z: EN IEC 62477-1:2023/AC:2024-04

[SIST EN IEC 62477-1:2024/AC:2024](https://standards.sist.net/catalog/standards/sist/62477-1/2024/iec-62477-1-2024-ac-2024)

ICS:

29.200	Usmerniki. Pretvorniki. Stabilizirano električno napajanje	Rectifiers. Convertors. Stabilized power supply
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SIST EN IEC 62477-1:2024/AC:2024 en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

**EN IEC 62477-
1:2023/AC:2024-04**

April 2024

ICS 29.200

English Version

**Safety requirements for power electronic converter systems and
equipment - Part 1: General
(IEC 62477-1:2022/COR1:2024)**

Exigences de sécurité applicables aux systèmes et
matériels électroniques de conversion de puissance - Partie
1: Généralités
(IEC 62477-1:2022/COR1:2024)

Sicherheitsanforderungen an Leistungselektronik-
Umrichtersysteme und -betriebsmittel - Teil 1: Allgemeines
(IEC 62477-1:2022/COR1:2024)

This corrigendum becomes effective on 26 April 2024 for incorporation in the English language version of the EN.

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<https://standards.iteh.ai/catalog/standards/sist/53dacd00-e1da-478f-9bac-7b6942cdb52a/sist-en-iec-62477-1-2024-ac-2024>



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

Endorsement notice

The text of the corrigendum IEC 62477-1:2022/COR1:2024 was approved by CENELEC as EN IEC 62477-1:2023/AC:2024-04 without any modification.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION
COMMISSION ÉLECTROTECHNIQUE INTERNATIONALEIEC 62477-1
Edition 2.0 2022-05SAFETY REQUIREMENTS FOR POWER
ELECTRONIC CONVERTER SYSTEMS AND
EQUIPMENT

Part 1: General

IEC 62477-1
Édition 2.0 2022-05EXIGENCES DE SÉCURITÉ APPLICABLES AUX
SYSTÈMES ET MATÉRIELS ÉLECTRONIQUES
DE CONVERSION DE PUISSANCE

Partie 1: Généralités

CORRIGENDUM 1

Corrections to the French version appear after the English text.

Les corrections à la version française sont données après le texte anglais.

3.33

Replace the term and definition (but not the note) with the following new term and definition:

(electrical) installation

assembly of electrical equipment to fulfil specific purposes

Note 1 to entry: The word "installation" is also used in this document to denote the process of installing a PECS. In these cases, the word does not appear in italics.

[SOURCE: IEC 60050-826:2022, 826-10-01, modified – the note to entry has been added.]

3.36

Replace, in the term, "LV" with "LV" (in bold).

3.68

Replace, in the term, "SCPD" with "SCPD" (in normal bold).

3.74

Replace, in the term, "SPD" with "SPD" (in bold).

4.3.1 General

Replace the sixth paragraph with the following new paragraph:

For marking, see 6.2.1.4.

4.3.3 Short-circuit coordination (backup protection)

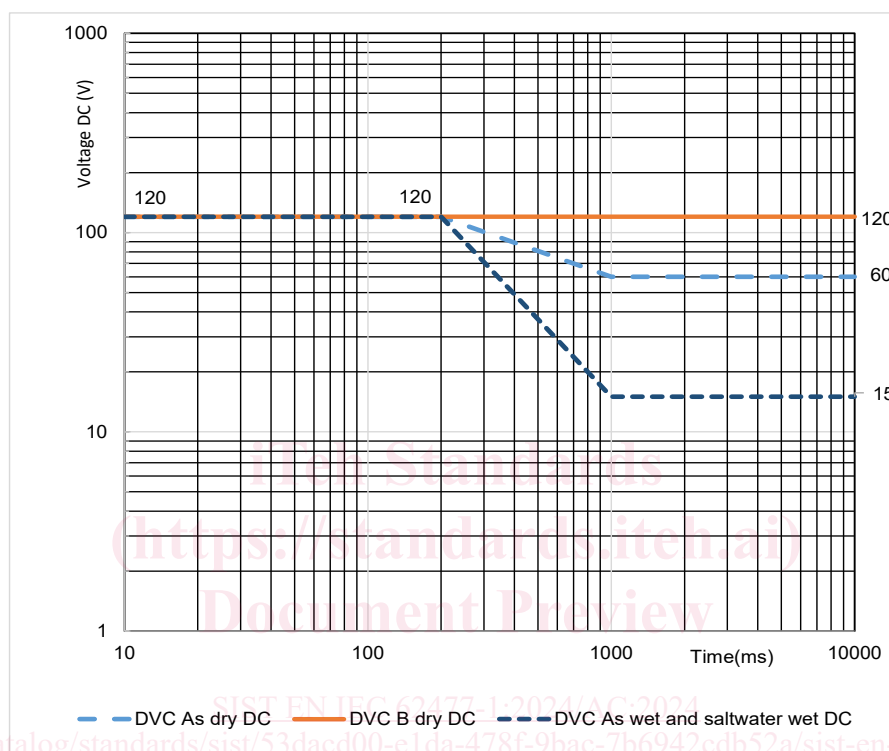
Replace the fifth paragraph with the following new paragraph:

Compliance shall be checked by

- visual inspection in 5.2.1, and
- simulation or tests of 5.2.4.4 and 5.2.4.5

Figure 5 – Time-voltage zones for accessible circuits of DVC As and DVC B – DC during single fault conditions

Replace Figure 5 with the following new figure:



4.4.7.1.4 Overvoltage category (OVC)

Replace, in the second paragraph, the second bullet point starting with “Equipment of overvoltage category III (OVC III) is equipment...”, with the following new bullet point:

- PECS of overvoltage category III (OVC III) is equipment in fixed installations and for cases where the reliability and the availability of the equipment are subject to special requirements.

4.4.7.2.2 SPD monitoring

Replace the first paragraph with the following new paragraph:

If the PECS manufacturer bundles an external SPD with their product for the purpose of overvoltage category reduction, this device shall have a monitoring circuit as required in 4.4.7.2.3 or 4.4.7.2.4 that enables the PECS to create an indication when the device is damaged by an overvoltage. If the SPD is internal to a PECS, the test of 5.2.3.15 applies.

4.4.7.4.2 Clearances for reinforced insulation

Replace in the first paragraph, the first bullet point with the following new text:

- the next higher value of impulse withstand voltage in column 1 of Table 8;