

INTERNATIONAL ELECTROTECHNICAL COMMISSION
COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

IEC 62477-1
Edition 2.0 2022-05

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**SAFETY REQUIREMENTS FOR POWER
ELECTRONIC CONVERTER SYSTEMS AND
EQUIPMENT**

Part 1: General

**EXIGENCES 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)

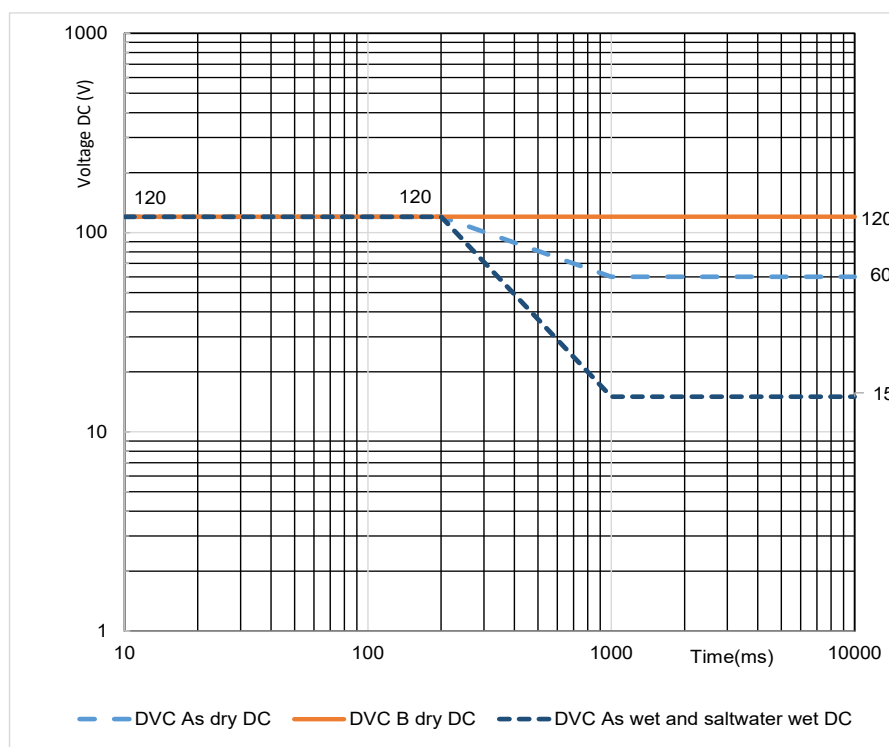
Replace the fifth paragraph with the following new paragraph:

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;