



SLOVENSKI STANDARD
SIST EN 60076-3:2014/A1:2018

01-oktober-2018

Močnostni transformatorji - 3. del: Izolacijski nivoji, dielektrični preskusi in zunanje zračne razdalje - Dopolnilo A1

Power transformers - Part 3: Insulation levels, dielectric tests and external clearances in air

Leistungstransformatoren - Teil 3: Isolationspegel, Spannungsprüfungen und äußere Abstände in Luft

Transformateurs de puissance - Partie 3: Niveaux d'isolement, essais diélectriques et distances d'isolement dans l'air

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Ta slovenski standard je istoveten z: EN 60076-3:2013/A1:2018

ICS:

29.180 Transformatorji. Dušilke Transformers. Reactors

SIST EN 60076-3:2014/A1:2018 **en**

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EUROPEAN STANDARD

EN 60076-3:2013/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2018

ICS 29.180

English Version

Power transformers - Part 3: Insulation levels, dielectric tests
and external clearances in air
(IEC 60076-3:2013/A1:2018)

Transformateurs de puissance - Partie 3: Niveaux
d'isolement, essais diélectriques et distances d'isolement
dans l'air
(IEC 60076-3:2013/A1:2018)

Leistungstransformatoren - Teil 3: Isolationspegel,
Spannungsprüfungen und äußere Abstände in Luft
(IEC 60076-3:2013/A1:2018)

This amendment A1 modifies the European Standard EN 60076-3:2013; it was approved by CENELEC on 2018-04-26. 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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

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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 60076-3:2013/A1:2018 (E)**European foreword**

The text of document 14/947/FDIS, future edition 3 of IEC 60076-3:2013/A1, prepared by IEC/TC 14 "Power transformers" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60076-3:2013/A1:2018.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2019-01-26
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2021-04-26

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 60076-3:2013/A1:2018 was approved by CENELEC as a European Standard without any modification.

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IEC 60076-3

Edition 3.0 2018-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

Power transformers –
Part 3: Insulation levels, dielectric tests and external clearances in air

Transformateurs de puissance –
Partie 3: Niveaux d'isolement, essais diélectriques et distances d'isolement dans l'air

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FOREWORD

This amendment has been prepared by subcommittee 14: Power transformers.

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

| | |
|-------------|------------------|
| FDIS | Report on voting |
| 14/947/FDIS | 14/952/RVD |

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

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

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

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7.1 Overview

Delete the existing Note 1 and delete the "2" of Note 2.

Table 1 – Requirements and tests for different categories of windings

Replace the existing title of this table by the following new title:

Table 1 – Requirements and tests for different categories of transformers based on the U_m of the highest voltage winding

7.3.3.1 Routine tests

Replace the existing item a) and its text by the following new item a) and new text:

a) Chopped wave lightning impulse test (LIC)

A chopped wave lightning impulse test shall be carried out on all line terminals with a $U_m > 170$ kV using the method given in Clause 13. A lightning impulse test (LI) shall be carried out on all line terminals with $U_m \leq 170$ kV using the method given in Clause 13. Test voltages are given in Table 2. If required by the purchaser in the contract, LIC tests shall additionally be carried out on line terminals with $U_m \leq 170$ kV.

12 Line terminal AC withstand test (LTAC)

This correction applies to the French language only.

C.1 General

Replace the first sentence of the second paragraph by the following new sentence:

It is recommended that test connections and procedures should be discussed at the time of placing the order or at the design review stage, particularly with regard to the connection for induced withstand voltage tests on complicated transformers with non-uniformly insulated high-voltage windings and the method to be used for impulse tests on high-power low-voltage windings and neutral terminals (see 13.1.4).

E.4 Clearances

Replace in the first paragraph of this clause " ≤ 750 kV" by " < 850 kV".

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