SLOVENSKI STANDARD
SIST EN 61000-4-13:2003/A2:2016

01-maj-2016

Elektromagnetna združljivost (EMC) - 4-13. del: Preskusne in merilne tehnike - Harmoniki in medharmoniki, vključno z napetostnimi signali v omrežju, na vhodu za izmenično napajanje; nizkofrekvenčni preskus odpornosti - Dopolnilo A2

Electromagnetic compatibility (EMC) - Part 4-13: Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests

Elektromagnetische Verträglichkeit (EMV) - Teil 4-13: Prüf- und Messverfahren - Prüfungen der Störfestigkeit am Wechselstrom-Netzanschluss gegen Oberschwingungen und Zwischenharmonische einschließlich leitungsgeführter Störgrößen aus der Signalübertragung auf elektrischen Niederspannungsnetzen

Compatibilité électromagnétique (CEM) - Partie 4-13: Techniques d'essai et de mesure - Essais d'immunité basse fréquence aux harmoniques et inter-harmoniques incluant les signaux transmis sur le réseau électrique alternatif

Ta slovenski standard je istoveten z: EN 61000-4-13:2002/A2:2016

ICS:

33.100.20 Imunost Immunity

SIST EN 61000-4-13:2003/A2:2016 en

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61000-4-13:2002/A2

March 2016

ICS 33.100.20

English Version

Electromagnetic compatibility (EMC) - Part 4-13: Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests (IEC 61000-4-13:2002/A2:2015)

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This amendment A2 modifies the European Standard EN 61000-4-13:2002; it was approved by CENELEC on 2016-01-18. 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: Avenue Marnix 17, B-1000 Brussels

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European foreword

The text of document 77A/904/FDIS, future IEC 61000-4-13:2002/A2, prepared by SC 77A, "EMC -Low-frequency phenomena", of IEC TC 77, "Electromagnetic compatibility" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61000-4-13:2002/A2:2016.

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)	2016-10-18
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2019-01-18

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Endorsement notice

The text of the International Standard IEC 61000-4-13:2002/A2:2015 was approved by CENELEC as a European Standard without any modification.

IEC 61000-4-13

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AMENDMENT 2
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FOREWORD

This amendment has been prepared by subcommittee 77A: EMC – Low frequency phenomena, of IEC technical committee 77: Electromagnetic compatibility.

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

FDIS	Report on voting
77A/904/FDIS	77A/916/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.

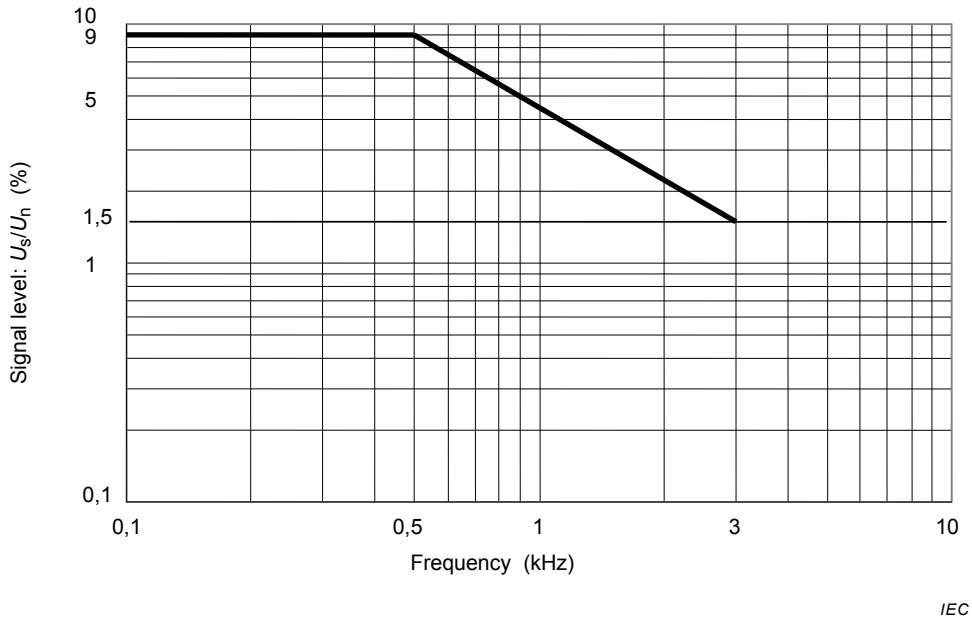
4.1.3 Mains signalling (ripple control)

Replace, in the first paragraph, the frequency range “110 Hz to 3 kHz” *by* “100 Hz to 3 kHz”.

Replace, in the second paragraph, the frequency range “2 kHz/50 Hz” *by* “2,4 kHz”.

Add the following new text and figure:

For the Meister curve, see Figure 8.



NOTE The figure is taken from IEC 61000-2-2:2007, Figure 3.

Figure 8 – Meister curve for ripple control systems in public networks (100 Hz to 3 000 Hz)

4.2.3 Mains signalling (ripple control)

Replace the frequency range “110 Hz to 2kHz (2,4 kHz)” *by* “100 Hz to 2,4 kHz”.

5.2 Test levels for interharmonics and mains signalling

Delete, in the title, the words “and mains signalling”

Delete, in the paragraph below Table 4b, the second sentence “Mains signalling levels are in the range of 2 % to 6 % of U_1.”

8.2 Application of the test

At the end of the first paragraph, add the following sentence:

For class 1 and 2, where the Meister curve is not applied, the immunity test for inter-harmonics is applicable.

Figure 1a – Test flowchart class 1 and class 2

Replace Figure1a with the following new figure:

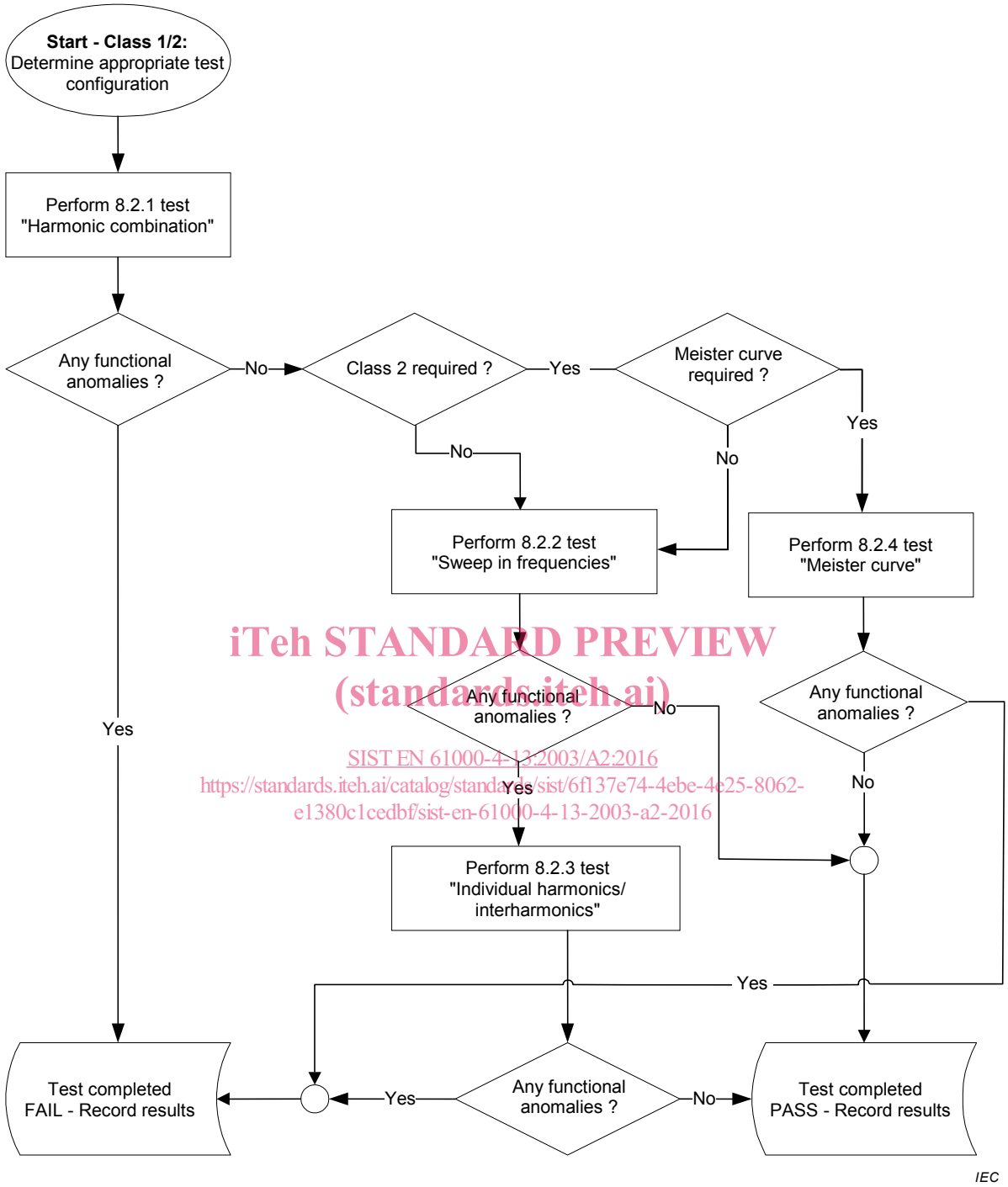


Table 10 – Frequency step sizes for interharmonics and Meister curve

Delete, in the table title, the words “and Meister curve”.

8.2.4 Application of the Meister curve

Replace the existing title by the following new title:

8.2.4 Meister curve test

*Add, after the paragraph ending with "*as shown in Figure 5.*", the following new note:*

NOTE 2,4 kHz is the upper frequency for 60 Hz systems; the upper frequency for 50 Hz systems is 2 kHz.