

### SLOVENSKI STANDARD oSIST prEN 50561-1:2011

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#### Aparati za komunikacije po elektroenergetskih vodih pri nizkonapetostnih inštalacijah - Karakteristike radijskih motenj - Omejitve in merilne metode - 1. del: Aparati za domačo uporabo

Power line communication apparatus used in low voltage installations - Radio disturbance characteristics - Limits and methods of measurement - Part 1: Apparatus for in-home use

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# ICS:33.100.01Elektromagnetna združljivost<br/>na splošnoElectromagnetic compatibility<br/>in general97.030Električni aparati za dom na<br/>splošnoDomestic electrical<br/>appliances in general

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## EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

## DRAFT prEN 50561-1

January 2011

ICS

English version

#### Power line communication apparatus used in low voltage installations -Radio disturbance characteristics -Limits and methods of measurement -Part 1: Apparatus for in-home use

To be completed

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This draft European Standard is submitted to CENELEC members for CENELEC enquiry. Deadline for CENELEC: 2011-04-15.

It has been drawn up by CLC/TC 210.

If this draft becomes a European Standard, CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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# CENELEC

European Committee for Electrotechnical Standardization Comité Européen de Normalisation Electrotechnique Europäisches Komitee für Elektrotechnische Normung

#### Management Centre: Avenue Marnix 17, B - 1000 Brussels

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#### Foreword

2 This draft European Standard was prepared by the Technical Committee CENELEC TC 210,
 3 Electromagnetic compatibility (EMC). It is submitted to the CENELEC enquiry.

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#### 42 **1 Scope**

This European standard specifies limits and methods of measurement of radio disturbance characteristics for
 in-home communication apparatus that uses the low voltage power installation as the transmission medium.
 The standard applies to equipment that transmits in the frequency range 1,7 MHz to 30 MHz.

Procedures are given for the measurement of signals generated by the equipment and limits are specified for
 the frequency range 9 kHz to 400 GHz. No measurements need be performed at frequencies where no limits
 are specified.

The intention of this publication is to establish uniform requirements for the radio disturbance level of the equipment contained in the scope, to establish limits of disturbance, to describe methods of measurement and to standardize operating conditions and interpretation of results.

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#### 53 2 Normative references

54 The following referenced documents are indispensable for the application of this document. For dated 55 references, only the edition cited applies. For undated references, the latest edition of the referenced 56 document (including any amendments) applies.

- 57 EN 55022:2010, Information technology equipment radio disturbance characteristics Limits and methods 58 of measurement (CISPR 22:2005, mod.)
- 59 EN 55014-1:2006 Electromagnetic Compatibility Requirements for household appliances, electric tools and 60 similar apparatus - Part 1: Emission (CISPR 14-1:2005)
- 61 EN 55016-1-1:2010, Specification for radio disturbance and immunity measuring apparatus and methods, 62 Part-1-1: Radio disturbance and immunity measuring apparatus — Measuring apparatus 63 (CISPR 16-1-1:2010)
- 64 EN 55016-1-2:2004, Specification for radio disturbance and immunity measuring apparatus and methods, 65 Part 1-2: Radio disturbance and immunity measuring apparatus – Ancillary equipment – Conducted 66 disturbances (CISPR 55016-1-2:2003)
- 67 ETSI TS 102 578 v1.2.1:2008, PowerLine Telecommunications (PLT); Coexistence between PLT Modems 68 and Short Wave Radio broadcasting services

#### SIST EN 50561-1:2014

- https://standards.iteh.ai/catalog/standards/sist/2d60a947-5152-48bb-89c7-4dcec523c794/sist-en-50561-1-2014 70 **3 Terms and definitions**
- For the purposes of this document, the following terms and definitions apply.
- 72 3.1

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#### 73 AC mains power port

- port that connects to the low voltage AC mains power network for the sole purpose of supplying electrical
   energy to the EUT
- 77 **3.2**

#### 78 Associated Equipment

79 AE

equipment needed to maintain the data traffic on the cable attached to the EUT port under test and (or) to
 maintain the normal operation of the EUT during the test. The associated equipment may be physically
 located outside the test area

83
84 NOTE The AE can be another ITE, a traffic simulator or a connection to a network. The AE can be situated close to the measurement set-up, outside the measurement room or be represented by the connection to a network. AE should not have any appreciable influence on the test results.

- 87
- 88 **3.3**

#### 89 Equipment Under Test

- 90 EÚT
- 91 representative equipment used for evaluation purposes