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## EESTI STANDARDI EESSÖNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN 61850-3:2014 sisaldab Euroopa standardi EN 61850-3:2014 inglisekeelset teksti.	This Estonian standard EVS-EN 61850-3:2014 consists of the English text of the European standard EN 61850-3:2014.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 18.07.2014.	Date of Availability of the European standard is 18.07.2014.
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ICS 33.200

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
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English Version

Communication networks and systems for power utility  
automation - Part 3: General requirements  
(IEC 61850-3:2013)

Réseaux et systèmes de communication pour  
l'automatisation des systèmes électriques - Partie 3:  
Exigences générales  
(CEI 61850-3:2013)

Kommunikationsnetze und -systeme für die  
Automatisierung in der elektrischen Energieversorgung -  
Teil 3: Allgemeine Anforderungen  
(IEC 61850-3:2013)

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European Committee for Electrotechnical Standardization  
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Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

## Foreword

The text of document 57/1391/FDIS, future edition 2 of IEC 61850-3, prepared by IEC/TC 57 "Power systems management and associated information exchange" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61850-3:2014.

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) 2014-10-18
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-01-16

This document supersedes EN 61850-3:2002.

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## Endorsement notice

The text of the International Standard IEC 61850-3:2013 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

- |                   |   |
|-------------------|---|
| IEC 60127-1       | NOTE Harmonized as EN 60127-1.                      |
| IEC 60255-27:2005 | NOTE Harmonized as EN 60255-27:2005 (not modified). |
| IEC 60297-3-101   | NOTE Harmonized as EN 60297-3-101.                  |
| IEC 60721-3-3     | NOTE Harmonized as EN 60721-3-3.                    |

## Annex ZA (normative)

### **Normative references to international publications with their corresponding European publications**

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

**NOTE** When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
CISPR 22	2008	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	EN 55022 + AC:2011 <sup>1)</sup>	2010 2011
CISPR 24 + corr. June	2010 2011	Information technology equipment - Immunity characteristics - Limits and methods of measurement	EN 55024	2010
EN 60068-2-1	2007	Environmental testing - Part 2-1: Tests - Test A: Cold		
IEC 60068-2-2	2007	Environmental testing - Part 2-2: Tests - Test B: Dry heat	EN 60068-2-2	2007
IEC 60068-2-14	2009	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	EN 60068-2-14	2009
IEC 60068-2-30	2005	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	EN 60068-2-30	2005
IEC 60068-2-78	2001	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	EN 60068-2-78 <sup>2)</sup>	2001
IEC 60255-21-1		Electrical relays - Part 21: Vibration, shock, bump and seismic tests on measuring relays and protection equipment - Section 1: Vibration tests (sinusoidal)	EN 60255-21-1	
IEC 60255-21-2		Electrical relays - Part 21: Vibration, shock, bump and seismic tests on measuring relays and protection equipment - Section 2: Shock and bump tests	EN 60255-21-2	
IEC 60255-21-3		Electrical relays - Part 21: Vibration, shock, bump and seismic tests on measuring relays and protection equipment - Section 3: Seismic tests	EN 60255-21-3	
IEC 60255-27	2013	Measuring relays and protection equipment - Part 27: Product safety requirements	EN 60255-27	2014

<sup>1)</sup> EN 55022 is superseded by EN 50561-1:2013, which is based on .

<sup>2)</sup> EN 60068-2-78 is superseded by EN 60068-2-78:2013, which is based on IEC 60068-2-78:2012.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60417	data base		HD 243 S12 <sup>3) 4)</sup>	1995
IEC 60529		Degrees of protection provided by enclosures - (IP Code)		-
IEC 60664-1		Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests	EN 60664-1	
IEC 60695-11-10		Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods	EN 60695-11-10	
IEC 60825-1		Safety of laser products - Part 1: Equipment classification and requirements	EN 60825-1	
IEC 60990	1999	Methods of measurement of touch current and protective conductor current	EN 60990	1999
IEC 61000-4-2	2008	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	EN 61000-4-2	2009
IEC 61000-4-3	2008	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test		
IEC 61000-4-4 + corr. June	2004 2007	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	EN 61000-4-4 <sup>5)</sup>	2004
IEC 61000-4-5 + corr. October	2005 2009	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	EN 61000-4-5	2006
IEC 61000-4-6	2008	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	EN 61000-4-6 <sup>6)</sup>	2009
IEC 61000-4-8	2001	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test		
IEC 61000-4-11	2004	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	EN 61000-4-11	2004
IEC 61000-4-16	2002	Electromagnetic compatibility (EMC) - Part 4-16: Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz		

<sup>3)</sup> HD 243 S12 includes supplement(s) M to K to IEC 60417.<sup>4)</sup> HD 243 S12 is superseded by EN 60417-2:1999, which is based on IEC 60417-2:1998.<sup>5)</sup> EN 61000-4-4 is superseded by EN 61000-4-4:2012, which is based on IEC 61000-4-4:2012.<sup>6)</sup> EN 61000-4-6 is superseded by EN 61000-4-6:2014, which is based on IEC 61000-4-6:2013.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61000-4-17	2009	Electromagnetic compatibility (EMC) - Part 4-17: Testing and measurement techniques - Ripple on d.c. input power port immunity test	-	-
IEC 61000-4-18	2006	Electromagnetic compatibility (EMC) - Part 4-18: Testing and measurement techniques - Damped oscillatory wave immunity test	EN 61000-4-18 + corr. September	2007 2007
IEC 61000-4-29	2000	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	EN 61000-4-29	2000
IEC 61010-1 + corr. May	2010 2011	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements	EN 61010-1	2010
IEC 61180-1	1992	High-voltage test techniques for low-voltage equipment - Part 1: Definitions, test and procedure requirements	EN 61180-1	1994
IEC 61180-2		High-voltage test techniques for low-voltage equipment - Part 2: Test equipment	EN 61180-2	
IEC/TS 61850-2	2003	Communication networks and systems in substations - Part 2: Glossary		
IEC 61850	(Series)	Communication networks and systems in substations - Part 6: Configuration description language for communication in electrical substations related to IEDs	EN 61850	(Series)
IEC 62271-1		High-voltage switchgear and controlgear - Part 1: Common specifications	EN 62271-1	
IEEE 1613	2009	IEEE Standard Environmental and Testing Requirements for Communications Networking Devices Installed in Electric Power Substations		
ISO 780	1997	Packaging - Pictorial marking for handling of goods	EN ISO 780	1999
ISO 7000		Graphical symbols for use on equipment - Registered symbols		
ISO 9772		Cellular plastics - Determination of horizontal burning characteristics of small specimens subjected to a small flame		

## CONTENTS

FOREWORD .....	5
1 Scope .....	7
2 Normative references .....	7
3 Terms, definitions and abbreviations .....	9
3.1 Terms and definitions.....	9
3.2 Abbreviations .....	20
4 Environmental conditions.....	20
4.1 General.....	20
4.2 Normal environmental conditions .....	20
4.3 Special environmental conditions .....	21
4.4 Storage conditions .....	22
5 Ratings .....	22
5.1 General.....	22
5.2 Rated voltage – Auxiliary energizing voltage .....	22
5.2.1 AC voltage.....	22
5.2.2 DC voltage.....	22
5.2.3 Operating range.....	22
5.3 Binary input and output .....	22
5.3.1 Binary input .....	22
5.3.2 Binary output .....	22
5.4 Rated burden .....	22
5.5 Rated ambient temperature.....	22
6 Design and construction .....	23
6.1 Marking.....	23
6.1.1 General .....	23
6.1.2 Identification .....	23
6.1.3 Auxiliary supplies, I/O .....	23
6.1.4 Fuses .....	24
6.1.5 Terminals and operating devices .....	25
6.1.6 Equipment protected by double or reinforced insulation .....	25
6.1.7 Batteries .....	26
6.1.8 Test voltage marking .....	27
6.1.9 Warning markings .....	28
6.1.10 Marking durability .....	29
6.2 Documentation.....	29
6.2.1 General .....	29
6.2.2 Equipment ratings.....	29
6.2.3 Equipment installation .....	30
6.2.4 Equipment commissioning and maintenance.....	31
6.2.5 Equipment operation.....	31
6.3 Packaging .....	31
6.3.1 General .....	31
6.3.2 Marking of packaging.....	32
6.4 Dimensions .....	32
6.5 Functional performance requirements .....	32
6.6 Product safety requirements .....	32

6.6.1	Clearances and creepage distances .....	32
6.6.2	IP rating.....	34
6.6.3	Impulse voltage .....	34
6.6.4	AC or d.c. dielectric voltage test .....	36
6.6.5	Protective bonding resistance .....	39
6.6.6	Flammability of insulation materials, components and fire enclosure.....	39
6.6.7	Single-fault condition .....	41
6.7	Electromagnetic compatibility (EMC).....	44
6.7.1	General .....	44
6.7.2	Electromagnetic environment.....	45
6.7.3	Immunity requirements and type tests.....	45
6.7.4	Emission requirements and type tests.....	54
6.8	Burden test .....	55
6.8.1	Burden for AC power supply .....	55
6.8.2	Burden for DC power supply .....	55
6.8.3	Burden for binary input .....	55
6.9	Climatic performance .....	55
6.9.1	General .....	55
6.9.2	Verification procedure.....	56
6.9.3	Climatic environmental tests .....	57
6.10	Mechanical performance .....	61
6.10.1	Vibration response and endurance (sinusoidal).....	61
6.10.2	Shock response, shock withstand and bump .....	61
6.10.3	Seismic.....	61
6.11	Enclosure protection .....	62
7	Tests .....	62
7.1	General.....	62
7.2	Test reference conditions.....	62
7.3	Device reliability classes .....	62
7.4	Communication conditions during tests .....	62
7.5	Conditions to be met (acceptance criteria) .....	63
7.5.1	General .....	63
7.5.2	Conditions to be met by class 1 and class 2 devices .....	63
7.5.3	Additional condition to be met by class 1 devices .....	63
7.5.4	Additional condition to be met by class 2 devices .....	63
7.5.5	Equipment functioning .....	64
7.5.6	Exceptions.....	64
7.6	Test overview.....	64
7.7	Test report content.....	65
8	Marking, labelling and packaging .....	66
9	Rules for transport, storage, installation, operation and maintenance .....	66
10	Product documentation .....	66
	Bibliography.....	67
	Figure 1 – Example of power station and substation: selection of the specifications for apparatus and related connections .....	47
	Figure 2 – Example air-insulated substation (AIS): selection of the specifications for apparatus and related connections .....	49

Table 1 – Normal environmental conditions.....	21
Table 2 – Special environmental conditions .....	21
Table 3 – Symbols .....	26
Table 4 – Symbols and marking of test voltage(s) .....	28
Table 5 – Current levels in normal operational condition .....	34
Table 6 – Charge of energy of capacitance levels .....	34
Table 7 – AC test voltages .....	38
Table 8 – Current levels in single fault condition .....	44
Table 9 – Immunity specification – Enclosure port.....	49
Table 10 – Immunity specifications – Signal ports .....	50
Table 11 – Immunity specifications – Low voltage a.c. input power ports and low voltage a.c. output power ports .....	51
Table 12 – Immunity specifications – Low voltage d.c. input power ports and low voltage d.c. output power ports .....	52
Table 13 – Immunity specifications – Functional earth port .....	53
Table 14 – Emission tests – Auxiliary power supply port .....	54
Table 15 – Emission tests – Telecommunication port.....	54
Table 16 – Emission tests below 1 GHz – Enclosure port at a measuring distance of 10 m .....	54
Table 17 – Emission tests above 1 GHz – Enclosure port at a measuring distance of 3 m .....	54
Table 18 – Dry heat test operational .....	57
Table 19 – Cold test operational .....	58
Table 20 – Dry heat test maximum storage temperature .....	58
Table 21 – Cold test minimum storage temperature .....	59
Table 22 – Change of temperature test .....	59
Table 23 – Damp heat steady state test .....	60
Table 24 – Damp heat cyclic test .....	61
Table 25 – Test reference conditions .....	62
Table 26 – Device communications profiles (conditions) during tests for Ethernet equipment with specified ranges of frame size (for example, an Ethernet switch).....	63
Table 27 – Device communications profiles (conditions) during tests for serial devices without specified ranges of frame size (for example, serial media converters).....	63
Table 28 – Test overview .....	64