

SLOVENSKI STANDARD SIST EN 60947-3:2009/A2:2016

01-julij-2016

Nizkonapetostne stikalne in krmilne naprave - 3. del: Stikala, ločilniki, ločilna stikala in stikalni aparati z varovalkami - Dopolnilo A2

Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switchdisconnectors and fuse-combination units

Niederspannungsschaltgeräte - Teil 3: Lastschalter, Trennschalter, Lasttrennschalter und Schalter-Sicherungs-EinheitenSTANDARD PREVIEW

Appareillage à basse tension - Partie 3: Interrupteurs, sectionneurs, interrupteurssectionneurs et combinés-fusibles

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Ta slovenski standard je istoveten z: EN 60947-3-2009-a2-2016

ICS:

29.130.20 Nizkonapetostne stikalne in Low voltage switchgear and

> krmilne naprave controlgear

SIST EN 60947-3:2009/A2:2016 en SIST EN 60947-3:2009/A2:2016

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EUROPEAN STANDARD NORME EUROPÉENNE **EUROPÄISCHE NORM**

EN 60947-3:2009/A2

October 2015

ICS 29.120.40; 29.130.20

English Version

Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units (IEC 60947-3:2008/A2:2015)

Appareillage à basse tension - Partie 3: Interrupteurs, sectionneurs, interrupteurs-sectionneurs et combinésfusibles (IEC 60947-3:2008/A2:2015)

Niederspannungsschaltgeräte - Teil 3: Lastschalter, Trennschalter, Lasttrennschalter und Schalter-Sicherungs-Finheiten (IEC 60947-3:2008/A2:2015)

This amendment A2 modifies the European Standard EN 60947-3:2009; it was approved by CENELEC on 2015-08-31. 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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This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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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

European foreword

The text of document 121A/42/FDIS, future IEC 60947-3:2008/A2, prepared by SC 121A "Low-voltage switchgear and controlgear" of IEC/TC 121 "Switchgear and controlgear and their assemblies for low voltage" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60947-3:2009/A2:2015.

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
- latest date by which the national standards conflicting with (dow) 2018-08-31 the document have to be withdrawn

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

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and supports essential requirements of EU Directive(s).

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For the relationship with EU Directive(s) see informative-Amnex2ZZ, which is an integral part of this document.

Endorsement notice

The text of the International Standard IEC 60947-3:2008/A2:2015 was approved by CENELEC as a European Standard without any modification.

In the Bibliography of EN 60947-3:2009, the following notes have to be added for the standards indicated:

IEC 60364-7-712:2002 NOTE Harmonized as HD 60364-7-712:2005 (not modified).

IEC 60664-1 NOTE Harmonized as EN 60664-1.

Replace Annex ZA by the following:

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 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60050-441	1984	International Electrotechnical Vocabulary		-
+ A1	2000	Chapter 441: Switchgear, controlgear and fuses Standards. Item. at	<u>_</u> vv	-
IEC 60269	series	Low-voltage fuses	EN 60269	series
	https://sta	andards.iteh.ai/catalog/standards/sist/6e6b68ea-672d-4	HD 60269 ³ CLC/TR 60269	
IEC 60410	1973	212067648738/sist-en-60947-3-2009-a2-2016 Sampling plans and procedures for inspection by attributes	-	-
IEC 60417-DB	2002	Graphical symbols for use on equipment	-	-
IEC 60947-1	2007	Low-voltage switchgear and controlgear - Part 1: General rules	EN 60947-1	2007
+ A1	2010		+ A1	2011
+ A2	2014		+ A2	2014
IEC 60947-2	2006	Low-voltage switchgear and controlgear - Part 2: Circuit-breakers	EN 60947-2	2006
+ A1	2009		+ A1	2009
+ A2	2013		+ A2	2013
IEC 60947-4-1	2009	Low-voltage switchgear and controlgear - Part 4-1: Contactors and motor-starters - Electromechanical contactors and motor- starters	EN 60947-4-1	2010
+ A1	2012		+ A1	2012
IEC 60947-5-1	2003	Low-voltage switchgear and controlgear - Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices	EN 60947-5-1	2004
-	-		+ corrigendum Nov.	2004
-	-		+ corrigendum Jul.	2005
+ A1	2009		+ A1	2009

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
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	2006	Electromagnetic compatibility (EMC) -	EN 61000-4-3	2006
+ A1	2007	Part 4-3: Testing and measurement techniques - Radiated, radio-frequency,	+ A1	2008
-	-	electromagnetic field immunity test	+ IS	2009
+ A2	2010		+ A2	2010
IEC 61000-4-4	2012	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	EN 61000-4-4	2012
IEC 61000-4-5	2014	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	EN 61000-4-5	2014
IEC 61000-4-6	2013	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	EN 61000-4-6	2014
CISPR 11 (mod)	2009	Industrial, scientific and medical	EN 55011	2009
+ A1	2010	equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	+ A1	2010
CISPR 22 (mod)	2008	Information technology equipment Radio	EN 55022	2010
-	https://sta	disturbance characteristics - Limits and methods of measurement - 1200/048738881-e1-00947-3-2009-a2-2016	139eA ⊕ 8e-	2011

Replace Annex ZZ by the following:

Annex ZZ

(informative)

Coverage of Essential Requirements of EU Directives

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and within its scope the standard covers protection requirements of Annex I Article 1 of the EU Directive 2004/108/EC.

Compliance with this standard provides presumption of conformity with the specified essential requirements of the Directives concerned.

NOTE: Other requirements and other EU Directives may be applicable to the products falling within the scope of this standard.

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IEC 60947-3

Edition 3.0 2015-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 2
AMENDEMENT 2

Low-voltage switchgear and controlgear D PREVIEW
Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units

SIST EN 60947-3:2009/A2:2016

Appareillage à basse tension reatalog/standards/sist/6e6b68ea-672d-439e-b18e-

Partie 3: Interrupteurs, sectionneurs, interrupteurs-sectionneurs et combinésfusibles

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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FOREWORD

This amendment has been prepared by subcommittee 121A: Low-voltage switchgear and controlgear, of IEC technical committee 121: Switchgear and controlgear and their assemblies for low voltage.

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

FDIS	Report on voting	
121A/42/FDIS	121A/46/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 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 ANDARD PREVIEW
- amended.

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SIST EN 60947-3:2009/A2:2016

1 General

https://standards.iteh.ai/catalog/standards/sist/6e6b68ea-672d-439e-b18e-212067648738/sist-en-60947-3-2009-a2-2016

1.2 Normative references

Replace the existing subclause by the following new subclause:

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

IEC 60050-441:1984, International Electrotechnical Vocabulary (IEV) – Chapter 441 Switchgear, controlgear and fuses IEC 60050-441:1984/AMD1:2000

IEC 60269 (all parts), Low-voltage fuses

IEC 60410:1973, Sampling plans and procedures for inspection by attributes

IEC 60417-DB:20021, Graphical symbols for use on equipment

IEC 60947-1:2007, Low-voltage switchgear and controlgear - Part 1: General rules

IEC 60947-1:2007/AMD1:2010 IEC 60947-1:2007/AMD2:2014

1 "DB" refers to the IEC on-line database.

IEC 60947-3:2008/AMD2:2015 - 3 - © IEC 2015

IEC 60947-2:2006, Low-voltage switchgear and controlgear – Part 2: Circuit-breakers IEC 60947-2:2006/AMD1:2009 IEC 60947-2:2006/AMD2:2013

IEC 60947-4-1:2009, Low-voltage switchgear and controlgear – Part 4-1: Contactors and motor-starters – Electromechanical contactors and motor-starters
IEC 60947-4-1:2009/AMD1:2012

IEC 60947-5-1:2003, Low-voltage switchgear and controlgear – Part 5-1: Control circuit devices and switching elements – Electromechanical control circuit devices IEC 60947-5-1:2003/AMD1:2009

IEC 61000-4-2:2008, Electromagnetic compatibility (EMC) – Part 4-2: Testing and measurement techniques – Electrostatic discharge immunity test

IEC 61000-4-3:2006, Electromagnetic compatibility (EMC) – Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test IEC 61000-4-3:2006/AMD1:2007 IEC 61000-4-3:2006/AMD2:2010

IEC 61000-4-4:2012, Electromagnetic compatibility (EMC) – Part 4-4: Testing and measurement techniques – Electrical fast transient/burst immunity test

IEC 61000-4-5:2014, Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test

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IEC 61000-4-6:2013, Electromagnetic compatibility (EMC) – Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields

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CISPR 11:2009, Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement CISPR 11:2009/AMD1:2010

CISPR 22:2008, Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement

2 Terms and definitions

Replace the title and text of the existing clause, modified by Amendment 1, by the following new title and text:

2 Terms, definitions and index of terms

2.1 General

For the purposes of this document, the terms and definitions given in IEC 60050-441 and IEC 60947-1 as well as the following apply.

- 4 - IEC 60947-3:2008/AMD2:2015 © IEC 2015

2.2 Alphabetical index of terms

Reference D F Fuse-disconnector 2.3.6 Fuse-switch 2.3.4 Switch-disconnector-fuse single opening 2.3.7

Switch-disconnector-fuse single opening 2.3.7.1 Switch-disconnector-fuse double opening 60947-32709/42/2016 2.3.7.2
 Switch-fuse
 SIST EN 6094 /-3:2009/AZ:2016
 2.3.3

 Switch-fuse single opening
 212067648738/sist-en-60947-3-2009-a2-2016
 2.3.3.1

 Switch-fuse double opening
 212067648738/sist-en-60947-3-2009-a2-2016
 2.3.3.2

2.3 Terms and definitions

2.3.1

disconnector

mechanical switching device which, in the open position, complies with the requirements specified for the isolating function

Note 1 to entry: A disconnector is capable of opening and closing a circuit when either a negligible current is broken or made, or when no significant change in the voltage across the terminals of each of the poles of the disconnector occurs. It is also capable of carrying currents under normal circuit conditions and carrying, for a specified time, currents under abnormal conditions such as those of short-circuit.

[SOURCE: IEC 60050-441:1984, 441-14-05, modified – reference to isolating function instead of isolating distance]

2.3.2

fuse-combination unit

combination of a mechanical switching device and one or more fuses in a composite unit, assembled by the manufacturer or in accordance with his instructions

[SOURCE: IEC 60050-441:1984, 441-14-04]

2.3.3

switch-fuse

switch in which one or more poles have a fuse in series in a composite unit

[SOURCE: IEC 60050-441:1984, 441-14-14]