

SLOVENSKI STANDARD SIST EN 62246-1:2015

01-september-2015

Nadomešča:

SIST EN 62246-1:2011

Stikala reed - 1. del: Splošne zahteve

Reed switches - Part 1: Generic specification

Reedschalter - Teil 1: Fachgrundspezifikation

iTeh STANDARD PREVIEW
Contacts à lames souples - Partie 1: Spécification générique (standards.iteh.ai)

Ta slovenski standard je istoveten z:TEN EN 62246-1:2015

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ICS:

29.120.70 Releji Relays

SIST EN 62246-1:2015 en SIST EN 62246-1:2015

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EUROPÄISCHE NORM

March 2015

ICS 29.120.70

Supersedes EN 62246-1:2011

English Version

Reed switches - Part 1: Generic specification (IEC 62246-1:2015)

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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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Foreword

The text of document 94/377/FDIS, future edition 3 of IEC 62246-1, prepared by IEC TC 94 "All-or-nothing electrical relays" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62246-1:2015.

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- latest date by which the national standards conflicting with the (dow) 2018-03-04 document have to be withdrawn

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Endorsement notice

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

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IEC 60027 (series)	NOTE	Harmonized as EN 60027 (series).
IEC 61000-4-5:2014	NOTE	Harmonized as EN 61000-4-5:2014.
IEC 61810-1:2008		Harmonized as EN 61810-1:2008.
IEC 61810-2	NOTE	Harmonized as EN 61810-2.
IEC 62246-1-1:2013	NOTE	Harmonized as EN 62246-1-1:2013.
IEC 61811-1	NOTE	Harmonized as EN 61811-1.

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.

www.ccricicc.cu.				
Publication IEC 60068-1	<u>Year</u> 2013	<u>Title</u> Environmental testing Part 1: General and	<u>EN/HD</u> EN 60068-1	<u>Year</u> 2014
IEC 60068-2-1	2007	guidance Environmental testing Part 2-1: Tests -	EN 60068-2-1	2007
IEC 60068-2-2	2007	Environmental testing Part 2-2: Tests -	EN 60068-2-2	2007
IEC 60068-2-6	20 07 e	Environmental testing Part 2-6: Tests - 1	EN 60068-2-6	2008
IEC 60068-2-7	1983	Basic environmental testing procedures -	EN 60068-2-7	1993
IEC 60068-2-11	1981	Acceleration, steady state	EN 60068-2-11	1999
IEC 60068-2-13	1983	Environmental testing - Part 2: Tests - Test		1999
IEC 60068-2-14	2009	Environmental testing Part 2-14: Tests -	EN 60068-2-14	2009
IEC 60068-2-17	1994	Basic environmental testing procedures	EN 60068-2-17	1994
IEC 60068-2-20	2008	Environmental testing Part 2-20: Tests - Test T: Test methods for solderability and resistance to soldering heat of devices with	EN 60068-2-20	2008
IEC 60068-2-21	2006	Environmental testing Part 2-21: Tests - Test U: Robustness of terminations and	EN 60068-2-21	2006
IEC 60068-2-27	2008	Environmental testing Part 2-27: Tests -	EN 60068-2-27	2009
IEC 60068-2-30	2005	Environmental testing Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h	EN 60068-2-30	2005
IEC 60068-2-78	-	Environmental testing Part 2-78: Tests -	EN 60068-2-78	-
IEC 60096 IEC 60947-5-1	series 2003	Radio-frequency cables Low-voltage switchgear and controlgear Part 5-1: Control circuit devices and switching elements - Electromechanical	- EN 60947-5-1	series 2004
-	- -		+corrigendum Nov. +corrigendum Jul.	2004 2005
	Publication IEC 60068-1 IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-6 IEC 60068-2-7 IEC 60068-2-11 IEC 60068-2-14 IEC 60068-2-17 IEC 60068-2-20 IEC 60068-2-20 IEC 60068-2-21 IEC 60068-2-30 IEC 60068-2-78 IEC 60096	Publication Year IEC 60068-1 2013 IEC 60068-2-1 2007 IEC 60068-2-2 2007 IEC 60068-2-6 2007 IEC 60068-2-7 1983 IEC 60068-2-11 1981 https://stanc 1EC 60068-2-13 IEC 60068-2-14 2009 IEC 60068-2-17 1994 IEC 60068-2-20 2008 IEC 60068-2-21 2006 IEC 60068-2-30 2005 IEC 60068-2-78 - IEC 60096 series	Publication Year Title Environmental testing Part 1: General and guidance EC 60068-2-1 2007 Environmental testing Part 2-1: Tests - Test A: Cold EC 60068-2-2 2007 Environmental testing Part 2-2: Tests - Test B: Dry heat EC 60068-2-6 2007 Environmental testing Part 2-6: Tests Test Fc: Vibration (sinusoidal) EC 60068-2-7 1983 Basic environmental testing procedures - Part 2-7: Tests - Test Ga and guidance: Acceleration, steady state Environmental testing Part 2: Tests - Test https://stant.org/stantards/ss/363-470-3522-498 EC 60068-2-11 1981 Environmental testing Part 2: Tests - Test M: Cow air pressure EC 60068-2-14 2009 Environmental testing Part 2-14: Tests - Test N: Change of temperature EC 60068-2-17 1994 Basic environmental testing Part 2-14: Tests - Test N: Change of temperature EC 60068-2-20 2008 Environmental testing Part 2-20: Tests - Test T: Test methods for solderability and resistance to soldering heat of devices with leads EC 60068-2-27 2008 Environmental testing Part 2-21: Tests - Test U: Robustness of terminations and integral mounting devices EC 60068-2-30 2005 Environmental testing Part 2-27: Tests - Test Ea and guidance: Shock EC 60068-2-78 Environmental testing Part 2-30: Tests - Test Cab: Damp heat, cyclic (12 h + 12 h cycle) EC 60068-2-78 Environmental testing Part 2-78: Tests - Test Cab: Damp heat, steady state EC 60096 EC 60047-5-1 2003 Low-voltage switchgear and controlgear Part 5-1: Control circuit devices and	Publication EC 60068-1 2013

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IEC 62246-1

Edition 3.0 2015-01

INTERNATIONAL STANDARD

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ICS 29.120.70 ISBN 978-2-8322-2234-8

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

REED SWITCHES -

Part 1: Generic specification

FOREWORD

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International Standard IEC 62246-1 has been prepared by IEC technical committee 94: All-ornothing electrical relays.

This standard cancels and replaces the second edition of IEC 62246-1 published in 2011. It constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- inclusion of Introduction (same as in IEC 62246-1-1:2013);
- update of the scope, the terms and definitions, the rated values and the test and measurement procedure;
- improvement of dielectric test, electrical endurance tests covering maximum electrical endurance test and overload test;
- improvement of Table F.1 for electrical ratings based on classification;

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inclusion of new Table G.1 for horsepower ratings based on classification.

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

FDIS	Report on voting
94/377/FDIS	94/381/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 62246 series can be found, under the general title *Reed Switches*, on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site 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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INTRODUCTION

Reed switches which are in mass production and which are widely used in practice could be classified by the following characteristics:

a) Size:

- normal or standard reed switches with a tube more than 50 mm in length and more than 5 mm in diameter;
- sub-miniature reed switches with a tube > 25 mm and < 50 mm in length and < 5 mm in diameter;
- miniature reed switches with a tube > 10 mm and < 25 mm in length and > 2 mm and < 5 mm in diameter;
- micro-miniature reed switches with a tube > 4 mm and < 10 mm in length and > 1,5 mm and < 2 mm in diameter.
- b) Type of switching of electric circuit:
 - closing or normally open A type;
 - opening or normally closed B type;
 - changeover C type.
- c) Withstand voltage level:
 - low-voltage (up to 1 000 V);
 - high-voltage (more than \$ 700 V) DARD PREVIEW
- d) Switches power:

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- low-power (up to 60 VA);
- power (100 to 1 000 VA); SIST EN 62246-1:2015
- high-power (more than 1 000) VA log/standards/sist/36a547c0-35c2-4980-9a2c-3c27118ac1b3/sist-en-62246-1-2015

 Types of electric contactions
- e) Types of electric contacts:
 - the tube is filled with dry air, gas mixture, vacuumized, or high pressurized.

This standard selects and specifies test procedures for reed switches where enhanced requirements for the verification of generic specification apply.

An international standard IEC 62246-1-1 (a quality assessment specification including information of detail specification (DS)) was published in 2013.