

SLOVENSKI STANDARD SIST EN 60974-4:2017

01-januar-2017

Nadomešča:

SIST EN 60974-4:2011

Oprema za obločno varjenje - 4. del: Perodični pregledi in preskusi (IEC 60974-4:2016)

Arc welding equipment - Part 4: Periodic inspection and testing (IEC 60974-4:2016)

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SIST EN 60974-4:2017

Ta slovenski standard/jeristoveten złog/stan ENs 60974+4:2016-45e2-a872-

41b06fddc4e8/sist-en-60974-4-2017

ICS:

25.160.30 Varilna oprema Welding equipment

SIST EN 60974-4:2017 en

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November 2016

ICS 25.160

Supersedes EN 60974-4:2011

English Version

Arc welding equipment - Part 4: Periodic inspection and testing (IEC 60974-4:2016)

Matériel de soudage à l'arc - Partie 4: Inspection et essais périodiques (IEC 60974-4:2016) Lichtbogenschweißeinrichtungen - Teil 4: Wiederkehrende Inspektion und Prüfung (IEC 60974-4:2016)

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This European Standard 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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41b06fddc4e8/sist-en-60974-4-2017



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

EN 60974-4:2016

European foreword

The text of document 26/597/FDIS, future edition 3 of IEC 60974-4, prepared by IEC/TC 26 "Electric welding" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60974-4:2016.

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)	2017-05-25
	standard or by endorsement		

 latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-08-25

This document supersedes EN 60974-4:2011.

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Endorsement notice

The text of the International Standard IEC 60974-4:2016 was approved by CENELEC as a European Standard without any modification.

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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 60050-151	-	International Electrotechnical Vocabulary (IEV) - Part 151: Electrical and magnetic devices	-	-
IEC 60050-195	-	International Electrotechnical Vocabulary (IEV) - Chapter 195: Earthing and protection against electric shock	-	-
IEC 60050-851	- 110	International Electrotechnical Vocabulary (IEV) -Standards.iteh.ai Part 851: Electric welding	E W	-
IEC 60974-1	2012/sta	SIST EN 60974-4:2017 Arg welding equipment 5/sist/3b40b8a6-f936- Part 1; Welding power sources 4-2017	4 <u>EN 609</u> 74-1	2012
IEC 60974-6	-	Arc welding equipment - Part 6: Limited duty equipment	EN 60974-6	-
IEC 61140	-	Protection against electric shock - Common aspects for installation and equipment	EN 61140	-
IEC 61557-4	-	Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c Equipment for testing, measuring or monitoring of protective measures - Part 4: Resistance of earth connection and equipotential bonding		-

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IEC 60974-4

Edition 3.0 2016-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Arc welding equipment—STANDARD PREVIEW Part 4: Periodic inspection and testing ds.iteh.ai)

Matériel de soudage à l'arc - SIST EN 60974-42017

Partie 4: Inspection et essais périodiques sist/3b40b8a6-f936-45e2-a872-

41b06fddc4e8/sist-en-60974-4-2017

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ELECTROTECHNICAL
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ICS 25.160 ISBN 978-2-8322-3528-7

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ARC WELDING EQUIPMENT -

Part 4: Periodic inspection and testing

FOREWORD

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- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60974-4 has been prepared by IEC technical committee 26: Electric welding.

This third edition cancels and replaces the second edition published in 2010. It constitutes a technical revision.

The main significant technical changes with respect to the previous edition are the following:

- With regard to basic standards the term "leakage current" has been replaced by "touch current" and "protective conductor current".
- Measurements of circuits connected in a non-galvanic way shall be tested according to the information of the manufacturer.
- The order of the chapters dealing with measurements to be carried out has been changed.
- The example test report in Annex B has been adapted.

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

FDIS	Report on voting
26/597/FDIS	26/603/RVD

-4 -

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.

The list of all the parts of the IEC 60974 series, under the general title *Arc welding equipment*, can be found on the IEC website.

In this standard, the following print types are used:

• conformity statements: in italic type.

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
- amended. (standards.iteh.ai)

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ARC WELDING EQUIPMENT -

Part 4: Periodic inspection and testing

1 Scope

This part of IEC 60974 specifies test procedures for periodic inspection and, after repair, to ensure electrical safety. These test procedures are also applicable for maintenance.

This standard is applicable to power sources for arc welding and allied processes designed in accordance with IEC 60974-1 or IEC 60974-6. Stand-alone ancillary equipment designed in accordance with other parts of IEC 60974 may be tested in accordance with relevant requirements of this part of IEC 60974.

NOTE 1 The welding power source can be tested with any ancillary equipment fitted that can affect the test results.

This standard is not applicable to testing of new power sources or engine-driven power sources.

NOTE 2 For a power source not built in accordance with IEC 60974-1, see Annex C.

2 Normative references (standards.iteh.ai)

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 bedition of the preferenced document (including any amendments) applies.

IEC 60050-151, International Electrotechnical Vocabulary – Part 151: Electrical and magnetic devices

IEC 60050-195, International Electrotechnical Vocabulary – Part 195: Earthing and protection against electric shock

IEC 60050-851, International Electrotechnical Vocabulary – Part 851: Electric welding

IEC 60974-1:2012, Arc welding equipment – Part 1: Welding power sources

IEC 60974-6, Arc welding equipment - Part 6: Limited duty equipment

IEC 61557-4, Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 4: Resistance of earth connection and equipotential bonding

IEC 61140, Protection against electric shock – Common aspects for installation and equipment

3 Terms and definitions

For the purposes of this document, the terms and definitions given in the IEC 60050-151, the IEC 60050-195, the IEC 60050-851, the IEC 60974-1, as well as the following, apply.