SLOVENSKI STANDARD
SIST EN IEC 60974-1:2018/A1:2020

01-februar-2020

Oprema za obločno varjenje - 1. del: Viri varilnega toka - Dopolnilo A1 (IEC 60974-1:2017/A1:2019)

Arc welding equipment - Part 1: Welding power sources (IEC 60974-1:2017/A1:2019)

Lichtbogenschweißeinrichtungen - Teil 1: Schweißstromquellen (IEC 60974-1:2017/A1:2019)

Matériel de soudage à l´arc - Partie 1: Sources de courant de soudage (IEC 60974-1:2017/A1:2019)

Ta slovenski standard je istoveten z: **EN IEC 60974-1:2018/A1:2019**

ICS:

25.160.30	Varilna oprema	Welding equipment

SIST EN IEC 60974-1:2018/A1:2020 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 60974-1:2018/A1

April 2019

ICS 25.160

English Version

Arc welding equipment - Part 1: Welding power sources (IEC 60974-1:2017/A1:2019)

Matériel de soudage à l'arc - Partie 1: Sources de courant de soudage
(IEC 60974-1:2017/A1:2019)

Lichtbogenschweißeinrichtungen - Teil 1: Schweißstromquellen
(IEC 60974-1:2017/A1:2019)

This amendment A1 modifies the European Standard EN IEC 60974-1:2018; it was approved by CENELEC on 2019-02-15. 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.

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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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

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Ref. No. EN IEC 60974-1:2018/A1:2019 E

European foreword

The text of document 26/653/CDV, future edition 5 of IEC 60974-1:2017/A1, prepared by IEC/TC 26 "Electric welding" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60974-1:2018/A1:2019.

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)	2019-11-15
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2022-02-15

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

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).

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

Endorsement notice

The text of the International Standard IEC 60974-1:2017/A1:2019 was approved by CENELEC as a European Standard without any modification.

Annex ZZ
(informative)

Relationship between this European Standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered

This European Standard has been prepared under a Commission's standardization request relating to harmonized standards in the field of the Low Voltage Directive, M/511, to provide one voluntary means of conforming to safety objectives of Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits [2014 OJ L96].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding safety objectives of that Directive, and associated EFTA regulations.

Table ZZ.1 — Correspondence between this European standard and Annex I of Directive 2014/35/EU [2014 OJ L96]

Safety objectives of Directive 2014/35/EU	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
1(a)	Clauses 10.4, 15, 17.1, 17.2, O.15, O.17, O.17.2	
1(b)	Clause 17.1 Annex O.17.1	
1(c)	Clauses 1, 3, 4 Annex O.4 see also points 2 and 3 below	Testing during periodic maintenance or after repair is covered in separate standards
2(a)	Clauses 6.1, 6.2, 6.3, 10, 11.1, 11.4, 11.5, 11.6, 11.7, 12, 13 Annexes O.6.1, O.6.2, O.10	
2(b)	Clauses 7.3.1, 7.3.2, 7.3.3	Hazards arising from electric, magnetic, and electromagnetic fields, other ionizing and non-ionizing radiation are covered in separate standards
2(c)	Clauses 6.2.1, 6.2.2, 9.1, 10.5.2, 14 Annexes O.9.1, O.14, O.9.201, O.9.203, O.9.204, O.9.205	
2(d)	Clauses 6.1, 7.3.1 Annex O.6.1	
3(a)	Clause 14	

	Annex O.14	
3(b)	Clauses 4, 6.2.1, 10.9, 14.2.1, 17.1 r)	Functional safety is covered in separate standards Safety-related security is covered in separate standards
3(c)	Clause 9 Annex O.9	

WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.

IEC 60974-1

Edition 5.0 2019-01

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

Arc welding equipment –
Part 1: Welding power sources

Matériel de soudage à l'arc –
Partie 1: Sources de courant de soudage

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
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ICS 25.160.30

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FOREWORD

This amendment has been prepared by IEC technical committee 26: Electric welding.

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

CDV	Report on voting
26/653/CDV	26/669/RVC

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 amendment and the base 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.

5 Tests

5.3 Conformity of components

Replace the existing text by the following new sentence:

Refer to Annex P for conformity of components.

Add, after the existing Annex O, the following new Annex P:

Annex P
(normative)

Conformity of components

Components and subassemblies which, due to failure, can create a hazard, such as power supplies and built-in information technology equipment, shall be used in accordance with their specified ratings unless a specific exception is made. They shall conform to one of the following:

a) applicable safety requirements of a relevant IEC standard. Conformity with other requirements of the component standard is not required. If necessary for the application, components shall be subjected to the tests of this document, except when those tests are identical or equivalent to the tests required to check conformity with the relevant component standard;

For example, if components meet the safety requirements of IEC 60950-1 but are rated for a less severe environment than the applicable environment of Clause 4 and 6.1.1, they shall also meet relevant additional requirements of this document.

b) the requirements of this standard and, where necessary for the application, any additional applicable safety requirements of the relevant IEC component standard;

c) if there is no relevant IEC standard, the requirements of this document;

d) applicable safety requirements of a non-IEC standard which are at least as high as those of the relevant IEC standard, provided that the component has been approved to the non-IEC standard by a recognized testing authority.

NOTE Tests performed by a recognized testing authority which confirm conformity with applicable safety requirements need not be repeated, even if the tests were performed using a non-IEC standard.

Figure P.1 is a flow chart showing methods of conformity verification.

Conformity is checked by inspection and, if necessary, by test.