

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Arc welding equipment –  
Part 3: Arc striking and stabilizing devices**

**Matériel de soudage à l'arc –  
Partie 3: Dispositifs d'amorçage et de stabilisation de l'arc**



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Withdrawing

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## ARC WELDING EQUIPMENT –

## Part 3: Arc striking and stabilizing devices

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International Standard IEC 60974-3 has been prepared by IEC technical committee 26: Electric welding.

This third edition cancels and replaces the second edition published in 2007 and constitutes a technical revision.

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

- changes induced by the publication of IEC 60974-1:2012.

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

FDIS	Report on voting
26/518/FDIS	26/521/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.

This standard shall be read in conjunction with IEC 60974-1:2012.

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

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- withdrawn,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.

Withdrawn

## ARC WELDING EQUIPMENT –

### Part 3: Arc striking and stabilizing devices

#### 1 Scope

This part of IEC 60974 specifies safety requirements for industrial and professional arc striking and arc stabilizing devices used in arc welding and allied processes.

This part of IEC 60974 is applicable to stand-alone units which may be connected to a separate welding power source or one where the welding power source and the arc striking and arc stabilizing device are housed in a single enclosure.

NOTE 1 Typical allied processes are for example plasma arc cutting and arc spraying.

NOTE 2 This standard does not include electromagnetic compatibility (EMC) requirements.

#### 2 Normative references

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.

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

IEC 60974-7, *Arc welding equipment – Part 7: Torches*

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 IEC 60974-1 and IEC 60974-7, as well as the following, apply.

##### 3.1

##### **arc striking device**

device which superimposes a voltage on the welding circuit to ignite an arc

##### 3.2

##### **arc stabilizing device**

device which superimposes a voltage on the welding circuit to maintain an arc

##### 3.3

##### **arc striking voltage**

voltage superimposed on the no-load voltage to ignite an arc

##### 3.4

##### **arc stabilizing voltage**

voltage superimposed on the arc voltage to maintain the arc