

Arc welding equipment —

Part 3: Arc striking and stabilizing devices

The European Standard EN 60974-3:2003 has the status of a
British Standard

ICS 25.160.30

National foreword

This British Standard is the official English language version of EN 60974-3:2003. It is identical with IEC 60974-3:2003.

The UK participation in its preparation was entrusted to Technical Committee WEE/6, Arc welding equipment, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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Arc welding equipment
Part 3: Arc striking and stabilizing devices
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Matériel de soudage à l'arc
Partie 3: Dispositifs d'amorçage et
de stabilisation de l'arc
(CEI 60974-3:2003)

Lichtbogenschweißeinrichtungen
Teil 3: Lichtbogenzünd- und
-stabilisierungseinrichtungen
(IEC 60974-3:2003)

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Foreword

The text of document 26/257/FDIS, future edition 1 of IEC 60974-3, prepared by IEC TC 26, Electric welding, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60974-3 on 2003-10-01.

This part shall be read in conjunction with EN 60974-1:1998.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2004-07-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2006-10-01

Annexes designated "normative" are part of the body of the standard.
Annexes designated "informative" are given for information only.
In this standard, annex ZA is normative and annexes A and B are informative.
L'annexe ZA a été ajoutée par le CENELEC.

Endorsement notice

The text of the International Standard IEC 60974-3:2003 was approved by CENELEC as a European Standard without any modification.

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ARC WELDING EQUIPMENT –

Part 3: Arc striking and stabilizing devices

1 Scope

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

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

Arc striking and arc stabilizing devices may be stand-alone units which may be connected to a separate welding power source or one where the welding power source and arc striking and arc stabilizing devices are housed in a single enclosure.

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

2 Normative references

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 60974-1:1998, *Arc welding equipment – Part 1: Welding power sources*

Amendment 1 (2000)

Amendment 2 (2003)

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 welding voltage to maintain an arc

3.5

arc striking period

period during which the arc striking voltage is superimposed to the no-load voltage