

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Safety in electroheating installations –
Part 4: Particular requirements for arc furnace installations**

**Sécurité dans les installations électrothermiques –
Partie 4: Exigences particulières pour les installations de fours à arc**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

SAFETY IN ELECTROHEATING INSTALLATIONS –**Part 4: Particular requirements for arc furnace installations**

FOREWORD

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International Standard IEC 60519-4 has been prepared by IEC technical committee 27: Industrial electroheating and electromagnetic processing.

This fourth edition cancels and replaces the third edition published in 2006. This edition constitutes a technical revision.

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

- The structure has been amended and adjusted to IEC 60519-1:2010;
- The classification (Clause 4) has been adapted to details with respect to secondary voltage in electric arc furnace installations;
- All provisions have been redrafted and the text is more concise with respect to EAF;
- Annexes AA, BB and CC have been restructured, with respect to details concerning high voltage designs and non-electrical issues, however to be aware of in those installations.

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

FDIS	Report on voting
27/904/FDIS	27/928/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 the parts of IEC 60519 series, under the general title *Safety in electroheating installations*, can be found on the IEC website.

The clauses of parts of the IEC 60519 series (hereinafter called Particular Requirements) supplement or modify the corresponding clauses of IEC 60519-1:2010 (*General requirements* hereinafter called Part 1).

This part of IEC 60519 is to be read in conjunction with Part 1. It supplements or modifies the corresponding clauses of Part 1. Where the text indicates an "addition" to or a "replacement" of the relevant provision of Part 1, these changes are made to the relevant text of Part 1. Where no change is necessary, the words "This clause of Part 1 is applicable" are used. When a particular subclause of Part 1 is not mentioned in this part, that subclause applies as far as is reasonable.

Additional specific provisions to those in Part 1, given as individual clauses or subclauses, are numbered starting from 101.

NOTE The following numbering system is used.

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
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