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Irish Standard I.S. EN 60683:2012

Industrial electroheating equipment -Test methods for submerged-arc furnaces (IEC 60683:2011 (EQV))

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EUROPEAN STANDARD

EN 60683

NORME EUROPÉENNE EUROPÄISCHE NORM

January 2012

ICS 25.180.10

Supersedes HD 599 S1:1992

English version

Industrial electroheating equipment -Test methods for submerged-arc furnaces (IEC 60683:2011)

Chauffage électrique industriel -Méthodes d'essai des fours à arc submergé (CEI 60683:2011) Industrielle Elektrowärmeanlagen -Prüfverfahren für Lichtbogen-Reduktionsöfen (IEC 60683:2011)

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

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EN 60683:2012

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Foreword

The text of document 27/780/CDV, future edition 2 of IEC 60683, prepared by IEC/TC 27 "Industrial electroheating" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60683:2012.

The following dates are fixed:

•	latest date by which the document has to be implemented at national level by publication of an identical national	(dop)	2012-08-23
	standard or by endorsement		
•	latest date by which the national standards conflicting with the	(dow)	2014-11-23

This document supersedes HD 599 S1:1992.

document have to be withdrawn

EN 60683:2011 includes the following significant technical changes with respect to HD 599 S1:1992:

- Clause 1 (Scope and object) - the types of furnaces covered by this standard are more clearly defined.

- Clause 2 (Normative references) and Clause 3 (Terms and definitions) have been updated and completed.

- A new Clause 4 (Features of the SAF system) has been added; it mainly concentrates on the tests necessary for high voltage/high current electrical equipment in the installation.

- Clause 5 (Tests and general conditions) and Clause 6 (Technical tests) have been modified according to today's requirements for safe operation of a SAF.

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

Endorsement notice

The text of the International Standard IEC 60683:2011 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60146-1-1:2009 NOTE Harmonized as EN 60146-1-1:2010 (not modified).

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Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	<u>Year</u>
IEC 60398	-	Industrial electroheating installations - General test methods	EN 60398	-
IEC 60519-1	2010	Safety in electroheating installations - Part 1: General requirements	EN 60519-1	2011
IEC 60519-4	-	Safety in electroheat installations - Part 4: Particular requirements for arc furnace installations	EN 60519-4	-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

INDUSTRIAL ELECTROHEATING EQUIPMENT – TEST METHODS FOR SUBMERGED-ARC FURNACES

FOREWORD

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International Standard IEC 60683 has been prepared by IEC technical committee 27: Industrial electroheating.

This second edition cancels and replaces the previous edition published in 1980 and constitutes a technical revision.

Significant technical changes with respect to the previous edition are as follows:

- Clause 1 (Scope and object) the types of furnaces covered by this standard are more clearly defined.
- Clause 2 (Normative references) and Clause 3 (Terms and definitions) have been updated and completed.
- A new Clause 4 (*Features of the SAF sytem*) has been added; it mainly concentrates on the tests necessary for high voltage/high current electrical equipment in the installation.
- Clause 5 (*Tests and general conditions*) and Clause 6 (*Technical tests*) have been modified according to today's requirements for safe operation of a SAF.

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

CDV	Report on voting
27/780/CDV	27/797/RVC

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 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,
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