



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 60609-1:2005

ICS 23.100.10

**HYDRAULIC TURBINES, STORAGE PUMPS
AND PUMP-TURBINES - CAVITATION PITTING
EVALUATION PART 1: EVALUATION IN
REACTION TURBINES, STORAGE PUMPS
AND PUMP-TURBINES (IEC 60609-1:2004)**

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Údarás um Chaighdeán Náisiúnta na hÉireann

EUROPEAN STANDARD

EN 60609-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2005

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English version

**Hydraulic turbines, storage pumps and pump-turbines –
Cavitation pitting evaluation
Part 1: Evaluation in reaction turbines,
storage pumps and pump-turbines
(IEC 60609-1:2004)**

Turbines hydrauliques, pompes
d'accumulation et pompes-turbines –
Evaluation de l'érosion de cavitation
Partie 1: Evaluation dans les turbines
à réaction, les pompes d'accumulation
et les pompes-turbines hydrauliques
(CEI 60609-1:2004)

Wasserturbinen, Speicherpumpen,
Pumpenturbinen –
Bewertung des Kavitationsangriffs
Teil 1: Bewertung in Reaktionsturbinen,
Speicherpumpen und Pumpenturbinen
(IEC 60609-1:2004)

This European Standard was approved by CENELEC on 2004-12-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 Central Secretariat or to any CENELEC member.

This European Standard 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 Central Secretariat has the same status as the official versions.

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

CENELEC

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

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Foreword

The text of document 4/196/FDIS, future edition 1 of IEC 60609-1, prepared by IEC TC 4, Hydraulic turbines, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60609-1 on 2004-12-01.

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) | 2005-09-01 |
| – latest date by which the national standards conflicting
with the EN have to be withdrawn | (dow) | 2007-12-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60609-1:2004 was approved by CENELEC as a European Standard without any modification.

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60193	- ¹⁾	Hydraulic turbines, storage pumps and pump-turbines - Model acceptance tests	EN 60193	1999 ²⁾
IEC/TR 61366-1	- ¹⁾	Hydraulic turbines, storage pumps and pump-turbines - Tendering documents Part 1: General and annexes	-	-

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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