
Electrical insulation systems - Electrical stresses produced by repetitive impulses -
Part 1: General method of evaluation of electrical endurance (IEC 62068-1:2003)

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EUROPEAN STANDARD

EN 62068-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English version

**Electrical insulation systems –
Electrical stresses produced by repetitive impulses
Part 1: General method of evaluation of electrical endurance
(IEC 62068-1:2003)**

Systèmes d'isolation électrique -
Contraintes électriques produites
par des impulsions de tension appliquées
périodiquement
Partie 1: Méthode générale d'évaluation
de l'endurance électrique
(CEI 62068-1:2003)

Elektrische Isoliersysteme (EIS) -
Elektrische Belastungen durch sich
wiederholende Impulse
Teil 1: Allgemeines Prüfverfahren zur
Beurteilung der elektrischen Belastbarkeit
(IEC 62068-1:2003)

STANDARD PREVIEW
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This European Standard was approved by CENELEC on 2003-10-01. 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Lithuania, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 98/188/FDIS, future edition 1 of IEC 62068-1, prepared by IEC TC 98, Electrical insulation systems (EIS), was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62068-1 on 2003-10-01.

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) 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 annex A is informative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62068-1:2003 was approved by CENELEC as a European Standard without any modification. (standards.iteh.ai)

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60270	NOTE	Harmonized as EN 60270:2001 (not modified).
IEC 60505	NOTE	Harmonized as EN 60505:2000 (not modified).

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE When 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 60727-1	- 1)	Evaluation of electrical endurance of electrical insulation systems Part 1: General considerations and evaluation procedures based on normal distributions	-	-
IEC 61649	- 1)	Goodness-of-fit tests, confidence intervals and lower confidence limits for Weibull distributed data	-	-

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1) Undated reference.

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2003-07

**Systèmes d'isolation électrique –
Contraintes électriques produites
par des impulsions de tension
appliquées périodiquement –**

**Partie 1:
Méthode générale d'évaluation
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**Electrical insulation systems –
Electrical stresses produced
by repetitive impulses –**

**Part 1:
General method of evaluation
of electrical endurance**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICAL INSULATION SYSTEMS –
ELECTRICAL STRESSES PRODUCED BY REPETITIVE IMPULSES –**

Part 1: General method of evaluation of electrical endurance

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 62068-1 has been prepared by IEC technical committee 98: Electrical insulation systems (EIS).

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

FDIS	Report on voting
98/188/FDIS	98/194/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.

The committee has decided that the contents of this publication will remain unchanged until 2006. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

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INTRODUCTION

International Standard IEC 62068 consists of the following parts under the general title *Electrical insulation systems – Electrical stresses produced by repetitive impulses*:

Part 1: General method of evaluation of electrical endurance

Part 2: State of the art

Other parts of IEC 62068 describing specific test procedures for particular insulation system models are still under consideration. Alternatively, product technical committees may use IEC 62068-1 as a basis for their own specific test.

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