

Electromagnetic compatibility (EMC) —

**Part 3-11: Limits — Limitation of voltage
changes, voltage fluctuations and flicker
in public low-voltage supply systems —
Equipment with rated current ≤ 75 A and
subject to conditional connection**

ICS 33.100.10; 91.140.50

National foreword

This British Standard is the official English language version of EN 61000-3-11:2000. It is identical with IEC 61000-3-11:2000.

The UK participation in its preparation was entrusted by Technical Committee GEL/210, Electromagnetic compatability, to Subcommittee GEL/210/8, EMC - Low frequency disturbances, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/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.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

From 1 January 1997, all IEC publications have the number 60000 added to the old number. For instance, IEC 27-1 has been renumbered as IEC 60027-1. For a period of time during the change over from one numbering system to the other, publications may contain identifiers from both systems.

Cross-references

Attention is drawn to the fact that CEN and CENELEC Standards normally include an annex which lists normative references to international publications with their corresponding European publications. The British Standards which implement these international or European publications may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue.

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 16, an inside back cover and a back cover.

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13042 corrigendum	February 2001	Corrects typographical errors in title and normative references clause.

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Electromagnetic compatibility (EMC)
Part 3-11: Limits - Limitation of voltage changes, voltage fluctuations
and flicker in public low-voltage supply systems -
Equipment with rated current ≤ 75 A and subject to conditional connection
(IEC 61000-3-11:2000)

Compatibilité électromagnétique (CEM)
Partie 3-11: Limites -
Limitation des variations de tension,
des fluctuations de tension et du
papillotement dans les réseaux publics
d'alimentation basse tension -
Équipements ayant un courant appelé
 ≤ 75 A et soumis à un raccordement
conditionnel
(CEI 61000-3-11:2000)

Elektromagnetische Verträglichkeit (EMV)
Teil 3-11: Grenzwerte -
Begrenzung von Spannungsänderungen,
Spannungsschwankungen und Flicker
in öffentlichen Niederspannungs-
Versorgungsnetzen -
Geräte und Einrichtungen mit einem
Bemessungsstrom ≤ 75 A, die einer
Sonderanschlußbedingung unterliegen
(IEC 61000-3-11:2000)

This European Standard was approved by CENELEC on 2000-11-01. 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, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, 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 77A/309/FDIS, future edition 1 of IEC 61000-3-11, prepared by SC 77A, Low-frequency phenomena, of IEC TC 77, Electromagnetic compatibility, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61000-3-11 on 2000-11-01.

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) 2001-08-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2003-11-01

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.

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61000-3-11:2000 was approved by CENELEC as a European Standard without any modification.

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INTRODUCTION

IEC 61000 is published in separate parts according to the following structure:

Part 1: General

General Considerations (introduction, fundamental principles)
Definitions, terminology

Part 2: Environment

Description of the environment
Classification of the environment
Compatibility levels

Part 3: Limits

Emission limits
Immunity limits (in so far as they do not fall under the responsibility of product committees)

Part 4: Testing and measurement techniques

Measurement techniques
Testing techniques

Part 5: Installation and mitigation guidelines

Installation guidelines
Mitigation methods and devices

Part 9: Miscellaneous

Each part is further subdivided into several parts published either as International Standards or technical reports, some of which have already been published as sections. Others will be published with the part number followed by a dash and a second number identifying the subdivision (example: 61000-3-11).

The scope of this part overlaps with that of IEC 61000-3-3 in that it is also applicable to equipment with a rated input current ≤ 16 A. However, it should be noted that equipment having a rated input current ≤ 16 A should first be tested for conformity with IEC 61000-3-3 before applying the evaluation techniques and measurement procedures specified in this part of IEC 61000.

Equipment which meets the requirements of IEC 61000-3-3 is not subject to conditional connection and therefore it is not subject to this part of IEC 61000.

The limits in this part relate to the voltage changes experienced by consumers connected at the interface between the public supply low-voltage network and the equipment user's installation. Therefore, it cannot be guaranteed that the user of equipment compliant with this standard will not experience supply disturbance within his own installation, as the impedance at the point of connection of the equipment to the supply within the installation may have an impedance greater than the test impedance.