

Electromagnetic compatibility (EMC) —

Part 3-2: Limits — Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)

The European Standard EN 61000-3-2:1995 has the status of a
British Standard

ICS 31.100.10

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee GEL/110, Electromagnetic compatibility, upon which the following bodies were represented:

- Association of Consulting Scientists
- Association of Control Manufacturers — TACMA (BEAMA Ltd.)
- Association of Manufacturers of Domestic Electrical Appliances
- Association of Manufacturers of Power Generating Systems and Association of British Generating Set Manufacturers
- BEAMA Ltd.
- BEAMA Metering Association (BMA)
- British Industrial Truck Association
- British Lighting Association for the Preparation of Standards (BRITLAPS)
- British Telecommunications plc.
- Building Automation and Mains Signalling Association (BAMSA) (BEAMA Ltd.)
- Department of Health
- Department of Trade and Industry (National Physical Laboratory)
- Department of Trade and Industry (Standards Policy Unit)
- Electrical Installation Equipment Manufacturers' Association (BEAMA Ltd.)
- Electricity Association
- ERA Technology Ltd.
- Federation of the Electronics Industry
- GAMBICA (BEAMA Ltd.)
- Health and Safety Executive
- Induction and Dielectric Heating Manufacturers' Association
- Institution of Electrical Engineers
- Lighting Industry Federation Ltd.
- Ministry of Defence
- National Air Traffic Services
- Power Supply Manufacturers' Association — PSMA (BEAMA Ltd.)
- Professional Lighting and Sound Association
- Radiocommunications Agency
- Rotating Electrical Machines Association (BEAMA Ltd.)
- Society of British Gas Industries
- Society of Motor Manufacturers and Traders Ltd.
- Transmission and Distribution Association (BEAMA Ltd.)

The following bodies were also represented in the drafting of the standard through Subcommittee GEL/110/8.

This British Standard, having been prepared under the direction of the Electrotechnical Sector Board, was published under the authority of the Standards Board and comes into effect on 15 October 1995

- British Radio and Electronic Equipment Manufacturers' Association
- Electrical Contractors' Association
- Electrical Installation Equipment Manufacturers' Association (BEAMA Ltd.)
- Heating Ventilating and Air Conditioning Association

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National foreword

This British Standard has been prepared by Technical Committee GEL/210 and is the official English language version of EN 61000-3-2 *Electromagnetic compatibility (EMC) Part 3-2: Limits — Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)*, incorporating amendments A12, A13 and A14, published by the European Committee for Electrotechnical Standardization (CENELEC). It was derived from IEC 61000-3-2:1995 published by the International Electrotechnical Commission (IEC).

NOTE Amendment A14 provides a temporary solution for legislation in Europe, to be applied from 2001-01-01.

This standard supersedes BS 5406-2:1988 which is withdrawn. It should be noted that IEC 61000-3-2 replaces IEC 555-2, and EN 61000-3-2 replaces EN 60555-2.

Cross-references

The British Standards which implement international or European publications referred to in this document 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, pages i and ii, the EN title page, pages 2 to 21 and a back cover.

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Electromagnetic compatibility (EMC) —
Part 3-2: Limits — Limits for harmonic current emissions
(equipment input current up to and including 16 A per
phase)

(includes amendments A2:1996, A13:1997, A1:1998, A2:1998 and A14:2000)

(IEC 1000-3-2:1995 + A1:1998 + A2:1998)

Compatibilité électromagnétique (CEM) —
Partie 3-2: Limites — Limites pour les
émissions de courant harmonique (courant
appelé par les appareils inférieur ou égal à 16 A
par phase)

(inclut les amendements A12:1996, A13:1997,
A1:1998, A2:1998 et A14:2000)
(CEI 1000-3-2:1995 + A1:1998 + A2:1998)

Elektromagnetische Verträglichkeit (EMV) —
Teil 3-2: Grenzwerte — Grenzwerte für
Oberschwingungsströme
(Geräte-Eingangsström bis einschließlich 16 A
je Leiter)

(enthält Änderungen A12:1996, A13:1997, A1:1998,
A2:1998 und A14:2000)
(IEC 1000-3-2:1995 + A1:1998 + A2:1998)

This European Standard was approved by CENELEC on 1994-07-05. CENELEC on 2000-10-03. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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(CO)41 + 41A, future edition 1 of IEC 1000-3-2, 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 61000-3-2 on 1994-07-05.

This European Standard supersedes EN 60555-2:1987.

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) 1995-07-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2001-01-01

Annexes designated “normative” are part of the body of the standard. In this standard, Annex A, Annex B, Annex C and Annex ZA are normative. Annex ZA has been added by CENELEC.

Foreword to amendment A12

This amendment was prepared by the Technical Committee CENELEC TC 210, EMC.

The text of the draft was submitted to the formal vote and was approved by CENELEC as amendment A12 to EN 61000-3-2:1995 on 1995-12-20.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1996-07-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 1998-06-01

NOTE The corrigendum to EN 61000-3-2:1995 of October 1995 is withdrawn.

Foreword to amendment A13

This amendment was prepared by the Technical Committee CENELEC TC 210, EMC.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A13 to EN 61000-3-2:1995 on 1997-03-11.

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) 1997-12-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2001-01-01

Foreword to amendment A1

The text of document 77A/177A/FDIS, part of the future amendment 1 to IEC 61000-3-2:1995, prepared by SC 77A, Low-frequency phenomena, of IEC TC 77, Electromagnetic compatibility, was submitted to the IEC-CENELEC parallel vote.

The text of document 77A/185/FDIS (second part of the future amendment 1) corresponds to EN 61000-3-2:1995/A13:1997.

The text of document 77A/186/FDIS, (third part of the future amendment 1) was submitted to the CENELEC formal vote.

The complete text of amendment 1:1997 was approved by CENELEC as amendment A1 to EN 61000-3-2:1995 on 1998-04-01.

NOTE This amendment A1 includes and supersedes amendment A13:1997 to EN 61000-3-2:1995.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1998-09-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2001-01-01

Foreword to amendment A2

The text of document 77A/217/FDIS, future amendment 2 to IEC 61000-3-2:1995, 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 amendment A2 to EN 61000-3-2:1995 on 1998-04-01.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1999-01-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2001-01-01

Foreword to amendment A14

This amendment was prepared by the Technical Committee CENELEC TC 210, Electromagnetic compatibility (EMC).

The text of the draft, which was based on input from IEC SC 77A, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A14 to EN 61000-3-2:1995 on 2000-10-03.

This amendment provides a temporary solution for legislation in Europe, to be applied from 2001-01-01 together with EN 61000-3-2:1995 (and its amendments) for the EMC Directive.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2001-01-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2004-01-01

The reference of subclauses, figures and tables which are in addition to those in IEC 61000-3-2 is prefixed with the letter Z.

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