

BSI Standards Publication

Electromagnetic compatibility (EMC)

Part 6-3: Generic standards — Emission standard
for equipment in residential locations



This is a preview of BS EN IEC 61000-6-3:2026. [Click here to purchase the full version from the ANSI store.](#)

National foreword

This British Standard is the UK implementation of EN IEC 61000-6-3:2026. It is identical to IEC 61000-6-3:2026. It supersedes BS EN IEC 61000-6-3:2021, which will be withdrawn on 31 May 2029.

The UK participation in its preparation was entrusted to Technical Committee GEL/210, EMC - Policy committee.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Date	Text affected

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English Version

Electromagnetic compatibility (EMC) - Part 6-3: Generic
standards - Emission standard for equipment in residential
locations
(IEC 61000-6-3:2026)

Compatibilité électromagnétique (CEM) - Partie 6-3:
Normes génériques - Norme sur l'émission relative aux
appareils utilisés dans les environnements résidentiels
(IEC 61000-6-3:2026)

Elektromagnetische Verträglichkeit (EMV) - Teil 6-3:
Fachgrundnormen - Störaussendung von Geräten in
Wohnbereichen
(IEC 61000-6-3:2026)

This European Standard was approved by CENELEC on 2026-05-12. 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.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

The text of document CIS/H/547/FDIS, future edition 4 of IEC 61000-6-3, prepared by SC CISPR/H "Limits for the protection of radio services" of IEC/TC CISPR "International special committee on radio interference" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61000-6-3:2026.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2027-05-31 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2029-05-31 document have to be withdrawn

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Endorsement notice

The text of the International Standard IEC 61000-6-3:2026 was approved by CENELEC as a European Standard without any modification.

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

IEC 61000-2-2:2002	NOTE Approved as EN 61000-2-2:2002 (not modified)
IEC 61000-6-1	NOTE Approved as EN IEC 61000-6-1
IEC 61000-6-2:2016	NOTE Approved as EN IEC 61000-6-2:2019 (not modified)
IEC 61000-6-4	NOTE Approved as EN IEC 61000-6-4
IEC 61000-6-8	NOTE Approved as EN IEC 61000-6-8
IEC 61158-1:2023	NOTE Approved as EN IEC 61158-1:2023 (not modified)
IEC 61800-3:2022	NOTE Approved as EN IEC 61800-3:2023 (not modified)
IEC 62040-2:2016	NOTE Approved as EN IEC 62040-2:2018 (not modified)
CISPR 11:2024	NOTE Approved as EN IEC 55011:2025 (not modified)
CISPR 14-2	NOTE Approved as EN IEC 55014-2
CISPR 15:2018	NOTE Approved as EN IEC 55015:2019 (not modified) +A11:2020
CISPR 15:2018/AMD1:2024	NOTE Approved as EN IEC 55015:2019/FprA1:2024 (not modified) to be published
CISPR 16 (series)	NOTE Approved as EN 55016-4-2:2011/A2 (series)
CISPR 35	NOTE Approved as EN 55035

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(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61000-3-2	2018	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current -16 A per phase)	EN IEC 61000-3-2	2019
+ A1	2020		+ A1	2021
+ AMD2	2024		+ A2	2024
IEC 61000-3-3	2013	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current -16 A per phase and not subject to conditional connection	EN 61000-3-3	2013
+ A1	2017		+ A1	2019
+ A2	2021		+ A2	2021
IEC 61000-3-11	2017	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	EN IEC 61000-3-11	2019
IEC 61000-3-12	2011	Electromagnetic compatibility (EMC) - Part 3-12: Limits - Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and -75 A per phase	EN 61000-3-12	2011
+ A1	2021		+ A1	2024
IEC 61000-4-20	2022	Electromagnetic compatibility (EMC) - Part 4-20: Testing and measurement techniques - Emission and immunity testing in transverse electromagnetic (TEM) waveguides	EN IEC 61000-4-20	2022

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			Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission		
CISPR 16-1-1	2019	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-1: Radio disturbance and immunity measuring apparatus - Measuring apparatus	EN IEC 55016-1-1	2019	
CISPR 16-1-1	2010	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-1: Radio disturbance and immunity measuring apparatus - Measuring apparatus	-	-	
+ A1	2010		-	-	
+ A2	2014		-	-	
CISPR 16-1-2	2014	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-2: Radio disturbance and immunity measuring apparatus - Coupling devices for conducted disturbance measurements	EN 55016-1-2	2014	
+ A1	2017		+ A1	2018	
CISPR 16-1-4	2019	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements	EN IEC 55016-1-4	2019	
+ A1	2020		+ A1	2020	
+ AMD2	2023		+ A2	2023	
CISPR 16-1-5	2014	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-5: Radio disturbance and immunity measuring apparatus - Antenna calibration sites and reference test sites for 5 MHz to 18 GHz	EN 55016-1-5	2015	
+ A1	2016		+ A1	2017	
CISPR 16-1-6	2014	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-6: Radio disturbance and immunity measuring apparatus - EMC antenna calibration	EN 55016-1-6	2015	
+ A1	2017		+ A1	2017	
+ AMD2	2022		+ A2	2022	
CISPR 16-2-1	2014	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements	EN 55016-2-1	2014	
+ A1	2017		+ A1	2017	

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		immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements		
+ A1	2019		+ A1	2019
+ AMD2	2023		+ A2	2023
CISPR 16-4-2	2011	Specification for radio disturbance and immunity measuring apparatus and methods - Part 4-2: Uncertainties, statistics and limit modelling - Measurement instrumentation uncertainty	EN 55016-4-2	2011
+ A1	2014		+ A1	2014
+ A2	2018		+ A2	2018
CISPR 32	2015	Electromagnetic compatibility of multimedia equipment - Emission requirements	-	-
+ A1	2019		+ A1	2020

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FOREWORD	5
INTRODUCTION	7
1 Scope	8
2 Normative references	8
3 Terms, definitions and abbreviated terms	10
3.1 Terms and definitions	10
3.2 Abbreviated terms	14
4 Classification of equipment	16
5 Measurements and conditions during testing	16
6 Documentation for the user	17
7 Applicability	17
8 Requirements	18
9 Measurement uncertainty	18
10 Compliance with this document	18
11 Emission test details	18
11.1 General	18
11.2 Setting test frequency ranges	24
11.3 Additional requirements for devices with a radio function	25
Annex A (informative) Classification of equipment and mapping to the immunity standards	27
Annex B (normative) Testing of DC powered systems	28
Annex C (informative) Rationale for alternative requirements at the DC power port	30
C.1 General	30
C.2 Necessity of alternative test methods in generic standards	30
C.3 Limit justification in table clause 5.2	30
C.3.1 Proportional relation approach	30
C.3.2 Current-to-voltage conversion approach	31
C.3.3 Setting the final limit	32
Annex D (informative) Alternative average detectors	33
D.1 General	33
D.2 Changes implemented in CISPR 16-1-1:2019	33
D.3 Conclusion	34
Annex E (informative) Background information on the normative limits in the frequency range 9 kHz to 150 kHz	35
E.1 Derivation of the normative limits	35
E.2 Radio protection analysis	37
E.2.1 General	37
E.2.2 Radio protection analysis for common mode disturbance injections	37
E.2.3 Radio protection analysis for differential mode disturbance injections	44
Annex F (informative) Spectral density of non-intentional emissions (NIE) in the frequency range 9 kHz to 150 kHz	51
F.1 Introduction of Integral Voltage Levels (IVL) for the limitation of the spectral density of NIE	51
F.2 Recommended maximum IVL for NIE	52
F.3 Rationale for the recommendation of additional limitations on the spectral density of non-intentional emissions	52

This is a preview of BS EN IEC 61000-6-3:2026. Click [here](#) to purchase the full version from the ANSI store.

F.3.2 Relationship between MCE performances and Integral Voltage Levels	53
Annex G (informative) Rationale for radiated magnetic field emissions requirements	58
Annex H (informative) Possible limits for radiated magnetic field emissions for EUT with the potential to produce disturbing electromagnetic fields	59
Annex I (informative) The conversion factor for magnetic emissions limits below 30 MHz	61
I.1 General.....	61
I.2 Considerations.....	63
I.3 Summary	66
Annex J (informative) Magnetic field emission limit correction based upon power	68
J.1 General.....	68
J.2 Limits.....	68
Bibliography.....	69
Figure 1 – Example of ports	12
Figure 2 – Basic WPT configuration	14
Figure 3 – Illustration of F_{TX} and F_X	26
Figure 4 – Excluded band	26
Figure C.1 – Equivalent circuit of test set up for measurement of disturbance voltages.....	31
Figure D.1 – Typical filter responses.....	33
Figure E.1 – Example of a V-AMN.....	36
Figure E.2 – Worst case common mode radiator for residential locations	37
Figure E.3 – Simulation results for the coupling factor for both field types.....	39
Figure E.4 – Worst case disturbance field strength at 10 m distance.....	40
Figure E.5 – Proposed field strengths limits compared to protection needs of radio applications	44
Figure E.6 – Worst-case differential mode radiator for residential locations	45
Figure E.7 – Simulation results for the coupling factor for differently sized loops	46
Figure E.8 – Properties of a V-AMN	47
Figure E.9 – Proposed field strengths limits compared to protection needs of radio applications	50
Figure F.1 – Example of a multi-carrier MCE spectrum	53
Figure F.2 – Laboratory test setup for the evaluation of the relationship between MCE performances and Integral Voltage Levels	54
Figure F.3 – Example of broadband noise produced by the NIE source used in the test.....	55
Figure F.4 – Spectral noise from device A, lower disturbing effect	56
Figure F.5 – Spectral noise from device B, higher disturbing effect	56
Figure I.1 – Example measurement of a real EUT at measurement distances (d) of 3 m and 10 m	62
Figure I.2 – Qualitative magnetic field lines in xz-plane of a horizontal loop and vertical dipole over infinite perfectly conducting ground.....	62
Figure I.3 – The six fundamental field source configurations	63
Figure I.4 – Absolute field strengths generated by 60 cm loops in all orientations at different distances	64

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different distances	64
Figure I.6 – Conversion factors for dominant coupling.....	65
Figure I.7 – Derivation of the final conversion factor using dominant coupling for EUTs described in I.1	66
Figure I.8 – Conversion factor from a distance of 3 m to 10 m, in the frequency range 150 kHz to 30 MHz (CF _{3 m to 10 m})	67
Table 1 – Test arrangements of EUT	17
Table 2 – Requirements for radiated electric field emissions, enclosure port.....	20
Table 3 – Requirements for radiated magnetic field emissions, enclosure port.....	21
Table 4 – Requirements for conducted emissions, low-voltage AC mains port.....	22
Table 5 – Requirements for conducted emissions, DC power port.....	23
Table 6 – Requirements for conducted emissions, other wired ports	24
Table 7 – Required highest frequency for radiated electric field emission measurements for EUT containing at least one active radio transmitter that is transmitting.....	25
Table 8 – Required highest frequency for radiated electric field emission measurements for EUT not containing at least one active radio transmitter that is transmitting.....	25
Table A.1 – Examples of emission and immunity requirements against product type and intended use	27
Table B.1 – Conducted emission requirements of DC powered equipment	28
Table B.2 – Conditional requirements for the start frequency of test at DC power ports for tests defined in table clause B1.4 to B1.7	29
Table C.1 – DC power port, terminal disturbance voltage limits for class B GCPCs, measured on a test site, proportion relation approach	31
Table C.2 – DC power port, terminal disturbance voltage limits for class B GCPCs, measured on a test site, current-to-voltage conversion approach	32
Table D.1 – Updated tolerances.....	33
Table E.1 – Simulation results for the coupling factor for both field types.....	38
Table E.2 – Worst case disturbance field strength at 10 m distance	40
Table E.3 – Probability factors and respective rationales	41
Table E.4 – Calculations of the required field strength limit.....	43
Table E.5 – Calculations of the required field strength limit.....	46
Table E.6 – Conversion from voltage limit to current limit for injection.....	47
Table E.7 – Disturbance field strength calculation for 20 cm and 50 cm loops.....	48
Table E.8 – Disturbance field strength calculation for 100 cm loop.....	49
Table F.1 – Recommended maximum Integral Voltage Levels.....	52
Table F.2 – Recommended maximum Integral Voltage Levels for equipment covered by footnote ^a to Table 4.....	52
Table F.3 – Correlation between MCE's noise assessment and Integral Voltage Levels computed in the MCE's operating frequency ranges.....	55
Table F.4 – Correlation between IVLs and MCE communication performance	56
Table H.1 – Proposed limits for radiated magnetic field emissions, enclosure port	60
Table I.1 – Conversion factor from a distance of 3 m to 10 m in the frequency range 150 kHz to 30 MHz (CF _{3 m to 10 m})	67

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**Electromagnetic compatibility (EMC) -
Part 6-3: Generic standards -
Emission standard for equipment in residential locations**

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, Publicly Available Specifications (PAS) 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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IEC 61000-6-3 has been prepared by CISPR subcommittee H: Limits for the protection of radio services. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 2020. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) the addition of magnetic field emission requirements, including the measurement of WPT function;
- b) the extension of low-voltage AC mains power requirements to cover the range 9 kHz to 150 kHz;
- c) products with a radio function have been added to the scope;

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

Draft	Report on voting
CIS/H/547/FDIS	CIS/H/557/RVD

Full information on the voting for the approval of this document can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 61000 series, published under the general title *Electromagnetic compatibility (EMC)*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

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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 (insofar as they do not fall under the responsibility of the 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 6: Generic standards

Part 9: Miscellaneous

Each part is further subdivided into several parts published either as International Standards, technical reports or technical specifications. These are published as sections. Others will be published with the part number followed by a dash and a second number identifying the subdivision (example: IEC 61000-6-1).

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This generic EMC emission standard is applicable only if no relevant dedicated product or product family EMC emission standard has been published.

This part of IEC 61000 for emission requirements applies to electrical and electronic equipment intended for use at residential (see 3.1.21) locations. This part of IEC 61000 also applies to electrical and electronic equipment intended for use at other locations that do not fall within the scope of IEC 61000-6-8 or IEC 61000-6-4.

The intention is that all equipment used in the residential, commercial and light-industrial locations are covered by IEC 61000-6-3 or IEC 61000-6-8. If there is any doubt the requirements in IEC 61000-6-3 apply.

Equipment that have a radio function (3.1.20) are included in the scope of this document. However, the emission requirements in this document are not intended to be applicable to the intentional transmissions from these radio transmitters, their harmonics and their out of band emissions.

Not all disturbance phenomena have been included for testing purposes but only those considered relevant for the equipment intended to operate within the locations included within this document.

The objectives of this document are:

- a) to establish requirements that provide an adequate level of protection of radio reception in the frequency range 9 kHz to 400 GHz;
- b) to establish requirements that provide an adequate level of protection against conducted and radiated electromagnetic disturbances emitted by equipment in the scope of this document;
- c) to support the reproducibility of measurement and the repeatability of results.

NOTE 1 In special cases, situations will arise where the levels specified in this document will not offer adequate protection; for example, where a sensitive receiver is used in close proximity to an equipment. In these instances, special mitigation measures can be employed.

NOTE 2 Disturbances generated in fault conditions of equipment are not covered by this document.

NOTE 3 The requirements in this document are more stringent or equivalent to the requirements specified in IEC 61000-6-4 and IEC 61000-6-8.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

IEC 61000-3-2:2018, *Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)*
 IEC 61000-3-2:2018/AMD1:2020
 IEC 61000-3-2:2018/AMD2:2024

IEC 61000-3-3:2013, *Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection*
 IEC 61000-3-3:2013/AMD1:2017
 IEC 61000-3-3:2013/AMD2:2021