

STN	Elektromagnetická kompatibilita (EMC) Časť 3-2: Medze Medze vyžarovania harmonických zložiek prúdu (zariadenia so vstupným fázovým prúdom ≤ 16 A) Zmena A2	STN EN IEC 61000-3-2/A2 33 3432
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Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current 16 A per phase)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 06/24

STN EN IEC 61000-3-2 z júna 2019 sa bez tejto zmeny A2 môže používať do 8. 4. 2027.

Obsahuje: EN IEC 61000-3-2:2019/A2:2024, IEC 61000-3-2:2018/AMD2:2024

EUROPEAN STANDARD

EN IEC 61000-3-2:2019/A2

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2024

ICS 33.100.10

English Version

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

Compatibilité électromagnétique (CEM) - Partie 3-2 :
Limites - Limites pour les émissions de courant harmonique
(courant appelé par les appareils < 16 A par phase)
(IEC 61000-3-2:2018/AMD2:2024)

Elektromagnetische Verträglichkeit (EMV) - Teil 3-2:
Grenzwerte - Grenzwerte für Oberschwingungsströme
(Geräte-Eingangsstrom < 16 A je Leiter)
(IEC 61000-3-2:2018/AMD2:2024)

This amendment A2 modifies the European Standard EN IEC 61000-3-2:2019; it was approved by CENELEC on 2024-04-08. 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 CEN-CENELEC Management Centre or to any CENELEC member.

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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

EN IEC 61000-3-2:2019/A2:2024 (E)**European foreword**

The text of document 77A/1161/CDV, future IEC 61000-3-2/AMD2, prepared by SC 77A "EMC - Low frequency phenomena" of IEC/TC 77 "Electromagnetic compatibility" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61000-3-2:2019/A2:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2025-01-08 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2027-04-08 document have to be withdrawn

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This document has been prepared under a standardization request addressed to CENELEC by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 61000-3-2:2018/AMD2:2024 was approved by CENELEC as a European Standard without any modification.

EN IEC 61000-3-2:2019/A2:2024 (E)**Annex ZA**
(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.

The Annex ZA of EN IEC 61000-3-2:2019 applies with the following changes:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
<i>Replace the references IEC 60335-2-14:2016, as modified by Amendment 1, IEC 60335-2-24:2010, as modified by Amendment 1, and IEC 60335-2-79:2016, as modified by Amendment 1, with the following:</i>				
IEC 60335-2-14	2016	Household and similar electrical appliances	EN IEC 60335-2-14	2023
		- Safety - Part 2-14: Particular requirements for kitchen machines		
+ A1	2019		A1	2023
-	-		A11	2023
IEC 60335-2-24	2020	Household and similar electrical appliances	EN IEC 60335-2-24	2022
		- Safety - Part 2-24: Particular requirements for refrigerating appliances, ice cream appliances and ice makers		
-	-		A11	2022
IEC 60335-2-79	2021	Household and similar electrical appliances		-
		- Safety - Part 2-79: Particular requirements for high pressure cleaners and steam cleaners		

Replace IEC 60598-2-17:2012, as modified by Amendment 1, with the following:

IEC 60598-2-17	2017	Luminaires - Part 2-17: Particular requirements - Luminaires for stage lighting, television and film studies (outdoor and indoor)	EN IEC 60598-2-17	2018
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EN IEC 61000-3-2:2019/A2:2024 (E)

Replace IEC 60974-1:2017, as modified by Amendment 1, with the following:

IEC 60974-1	2021	Arc welding equipment - Part 1: Welding power sources	EN IEC 60974-1	2022
-	-		+ A11	2022
-	-		+ A12	2023

Add the following new reference:

IEC Guide 115	2023	Application of uncertainty of measurement - to conformity assessment activities in the electrotechnical sector	-
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IEC 61000-3-2

Edition 5.0 2024-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE



AMENDMENT 2
AMENDEMENT 2

**Electromagnetic compatibility (EMC) –
Part 3-2: Limits – Limits for harmonic current emissions (equipment input
current < 16 A per phase)**

**Compatibilité électromagnétique (CEM) –
Partie 3-2 : Limites – Limites pour les émissions de courant harmonique
(courant appelé par les appareils < 16 A par phase)**



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IEC 61000-3-2

Edition 5.0 2024-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE



AMENDMENT 2
AMENDEMENT 2

**Electromagnetic compatibility (EMC) –
Part 3-2: Limits – Limits for harmonic current emissions (equipment input
current < 16 A per phase)**

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Partie 3-2 : Limites – Limites pour les émissions de courant harmonique
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTROMAGNETIC COMPATIBILITY (EMC) –**Part 3-2: Limits – Limits for harmonic current emissions
(equipment input current ≤ 16 A per phase)****AMENDMENT 2****FOREWORD**

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Amendment 2 to IEC 61000-3-2:2018 has been prepared by subcommittee 77A: EMC – Low frequency phenomena, of IEC technical committee 77: Electromagnetic compatibility.

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

Draft	Report on voting
77A/1161/CDV	77A/1181/RVC

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

IEC 61000-3-2:2018/AMD2:2024
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The language used for the development of this Amendment is English

This document was drafted in accordance with 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/.

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INTRODUCTION to Amendment 2

Amendment 2 to IEC 61000-3-2 Ed. 5.1 (= IEC 61000-3-2:2018 plus IEC 61000-3-2/AMD1:2021) is based on 77A/1098/Q, 77A/1106/DISH, 77A/1123A/RQ, 77A/1149/CD, 77A/1150/CD, 77A/1151/CD, 77A/1152/CD, the observations to these CD's and discussions in SC77A / WG1 during the meetings October 2021, May 2022 and November 2022.

At CD stage the amendment has been split into 4 different fragments:

Fragment 1	Lighting equipment
Fragment 2	Test conditions
Fragment 3	Repeatability and measurement uncertainty
Fragment 4	Miscellaneous

As the number of comments on the 4 different CDs was not very high, SC77A WG1 during its meeting November 2022 in San Diego decided to combine the 4 fragments already at CDV stage.

This amendment contains the following main changes in comparison with IEC 61000-3-2:2018 and IEC 61000-3-2:2018/AMD1:2020:

- Inclusion of Interpretation Sheet IEC 61000-3-2:2018/AMD1:2020/ISH1:2021
- New terms and definitions reflecting the actual luminaires on the market
- Adapted test conditions for actual luminaires on the market
- Consolidate the test conditions for video-cassette recorders
- Revision of test conditions for washing machines
- Clarification of references in clause B.17
- Adding IEC Guide 115 to the normative references
- Better specification for repeatability
- New specification for measurement uncertainty and decision rule where in comparison with 77A/1161/CDV the notes in 8.2.1 have been updated to refer to the newest version of IEC Guide 115
- Adding IEC TR 61000-1-6 to the bibliography
- New definition for an independent function
- New definitions for symmetrical control, asymmetrical control and phase control
- Clarification that special test conditions in Annex B have precedence over the general test conditions in clause 6.3.1
- Clarification for the calculation of THC, THD or POHC (The disregarding of currents less than 0,6 % of input current or less than 5 mA applies only to individual harmonics.)
- Clarification for the application of class D limits
- Clarification for the requirements on the test voltage in A.2, bullet d)
- Addition of an informative Annex D "Symmetry of mains current waveforms"

1 Scope

Delete the fifth paragraph.

Replace the last paragraph with the following:

For systems with nominal voltages less than 220 V (line-to-neutral), limits have not yet been considered.

2 Normative references

Replace IEC 60335-2-14:2016, as modified by Amendment 1, IEC 60335-2-24:2010, as modified by Amendment 1, and IEC 60335-2-79:2016, as modified by Amendment 1, with the following:

IEC 60335-2-14:2016, *Household and similar electrical appliances – Safety – Part 2-14: Particular requirements for kitchen machines*
IEC 60335-2-14:2016/AMD1:2019

IEC 61000-3-2:2018/AMD2:2024

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IEC 60335-2-24:2020, *Household and similar electrical appliances – Safety – Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice makers*

IEC 60335-2-79:2021, *Household and similar electrical appliances – Safety – Part 2-79: Particular requirements for high pressure cleaners and steam cleaners*

Replace IEC 60598-2-17:2012, as modified by Amendment 1, with the following:

IEC 60598-2-17:2017, *Luminaires – Part 2-17: Particular requirements – Luminaires for stage lighting, television and film studios (outdoor and indoor)*

Replace IEC 60974-1:2017, as modified by Amendment 1, with the following:

IEC 60974-1:2021, *Arc welding equipment – Part 1: Welding power sources*

Add the following new reference:

IEC GUIDE 115:2023, *Application of uncertainty of measurement to conformity assessment activities in the electrotechnical sector*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN