

**KODU- JA HOONEELEKTROONIKASÜSTEEMID NING
HOONE AUTOMAATIKA- JA JUHTIMISSÜSTEEMID.
OSA 5-2: ELEKTROMAGNETILISE ÜHILDUVUSE NÕUDED
KODU- JA HOONEELEKTROONIKASÜSTEEMIDELE NING
HOONE AUTOMAATIKA- JA JUHTIMISSÜSTEEMIDELE,
MIDA KASUTATAKSE OLME-, KAUBANDUS- JA
VÄIKETÖÖSTUSKESKKONDADES**

**Home and Building Electronic Systems (HBES) and
Building Automation and Control Systems (BACS) -
Part 5-2: EMC requirements for HBES/BACS used in
residential, commercial and light-industrial
environments(IEC 63044-5-2:2017 +
IEC 63044-5-2:2017/AMD1:2022)**

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See Eesti standard EVS-EN IEC 63044-5-2:2019+A1:2024 sisaldab Euroopa standardi EN IEC 63044-5-2:2019 ja selle muudatuse A1:2024 ingliskeelset teksti.	This Estonian standard EVS-EN IEC 63044-5-2:2019+A1:2024 consists of the English text of the European standard EN IEC 63044-5-2:2019 and its amendment A1:2024.
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ICS 29.120.01; 29.100.99

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EN IEC 63044-5-2 + A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2019, November 2024

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Supersedes EN 50491-5-2:2010 and all of its amendments and corrigenda (if any)

English Version

**Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light-industrial environments
(IEC 63044-5-2:2017 + IEC 63044-5-2:2017/AMD1:2022)**

Systèmes Electroniques pour les Foyers Domestiques et les Bâtiments (HBES) et Systèmes de Gestion Technique du Bâtiment (SGTB) - Partie 5-2: Exigences CEM relatives aux HBES/SGTB destinés à être utilisés dans des environnements résidentiels, commerciaux et de l'industrie légère
(IEC 63044-5-2:2017 + IEC 63044-5-2:2017/AMD1:2022)

Allgemeine Anforderungen an die Elektrische Systemtechnik für Heim und Gebäude (ESHG) und an Systeme der Gebäudeautomation (GA) - Teil 5-2: EMV-Anforderungen an ESHG/GA für den Gebrauch in Wohnbereichen, Geschäfts- und Gewerbebereichen sowie in Kleinbetrieben
(IEC 63044-5-2:2017 + IEC 63044-5-2:2017/AMD1:2022)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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European foreword

The text of document 23/737/CDV, future edition 1 of IEC 63044-5-2, prepared by IEC/TC 23 "Electrical accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63044-5-2:2019.

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IEC 61000-4-20:2010	NOTE	Harmonized as EN 61000-4-20:2010 (not modified)
IEC 61000-6-1	NOTE	Harmonized as EN IEC 61000-6-1

A1 Amendment A1 European foreword

The text of document 23/1002/FDIS, future edition 1 of IEC 63044-5-2/AMD1, prepared by TC 23 "Electrical accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63044-5-2:2019/A1:2024.

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INTERNATIONAL STANDARD

NORME INTERNATIONALE



Home and building electronic systems (HBES) and building automation and control systems (BACS) –

Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light-industrial environments

Systèmes électroniques pour les foyers domestiques et les bâtiments (HBES) et systèmes de gestion technique du bâtiment (SGTB) –

Partie 5-2: Exigences CEM relatives aux HBES/SGTB destinés à être utilisés dans des environnements résidentiels, commerciaux et de l'industrie légère



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INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Home and building electronic systems (HBES) and building automation and control systems (BACS) –
Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light-industrial environments**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOME AND BUILDING ELECTRONIC SYSTEMS (HBES) AND BUILDING AUTOMATION AND CONTROL SYSTEMS (BACS) –

Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light-industrial environments

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

CDV	Report on voting
23/737/CDV	23/749/RVC

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.

A list of all parts in the IEC 63044 series, published under the general title *Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS)*, can be found on the IEC website.

This International Standard is to be used in conjunction with IEC 63044-5-1:2017  and with IEC 63044-5-1:2017/AMD1:2022 .

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A1 Amendment A1 FOREWORD

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Amendment 1 to IEC 63044-5-2:2017 has been prepared by IEC technical committee 23: Electrical accessories.

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

Draft	Report on voting
23/1002/FDIS	23/1008/RVD

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

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/standardsdev/publications/.

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INTRODUCTION

The IEC 63044 series deals with developing and testing Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS).

The IEC 63044-5 series ensures a common level of EMC requirements for HBES/BACS devices

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HOME AND BUILDING ELECTRONIC SYSTEMS (HBES) AND BUILDING AUTOMATION AND CONTROL SYSTEMS (BACS) –

Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light-industrial environments

1 Scope

Clause 1 of IEC 63044-5-1:2017 ^{A1} and of IEC 63044-5-1:2017/AMD1:2022 ^{A1} applies, with the following modification:

Replace the ^{A1} last ^{A1} paragraph by the following one:

This document specifies EMC requirements for HBES/BACS to be installed in residential, commercial and light-industrial environments, according to the definition given in IEC 61000-6-1.

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.

^{A1} IEC 63044-5-1:2017, *Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) – Part 5-1: EMC requirements, conditions and test set-up*

IEC 63044-5-1:2017/AMD1:2022 ^{A1}

IEC 61000-4-2, *Electromagnetic compatibility (EMC) – Part 4-2: Testing and measurement techniques – Electrostatic discharge immunity test*

IEC 61000-4-3, *Electromagnetic compatibility (EMC) – Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test*

IEC 61000-4-4, *Electromagnetic compatibility (EMC) – Part 4-4: Testing and measurement techniques – Electrical fast transient/burst immunity test*

IEC 61000-4-5, *Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test*

IEC 61000-4-6, *Electromagnetic compatibility (EMC) – Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields*

IEC 61000-4-8, *Electromagnetic compatibility (EMC) – Part 4-8: Testing and measurement techniques – Power frequency magnetic field immunity test*

IEC 61000-4-11, *Electromagnetic compatibility (EMC) – Part 4-11: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests*

^{A1} IEC 61000-6-3:2020, *Electromagnetic compatibility (EMC) – Part 6-3: Generic standards – Emission standard for equipment in residential environments* ^{A1}