

**Home and Building Electronic Systems (HBES) and
Building Automation and Control Systems (BACS) - Part
1: General requirements (IEC 63044-1:2017 +
IEC 63044-1:2017/A1:2021)**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 63044-1:2017+A1:2021 sisaldab Euroopa standardi EN 63044-1:2017 ja selle muudatuse A1:2021 ingliskeelset teksti.	This Estonian standard EVS-EN 63044-1:2017+A1:2021 consists of the English text of the European standard EN 63044-1:2017 and its amendment A1:2021.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas. Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 28.04.2018, muudatus A1 18.06.2021.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation. Date of Availability of the European standard is 28.04.2018, for A1 18.06.2021.
Muudatusega A1 lisatud või muudetud teksti algus ja lõpp on tekstis tähistatud sümbolitega A1 A1 . Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.	The start and finish of text introduced or altered by amendment A1 is indicated in the text by tags A1 A1 . The standard is available from the Estonian Centre for Standardisation and Accreditation.

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English Version

Home and Building Electronic Systems (HBES) and Building
Automation and Control Systems (BACS) -
Part 1: General requirements
(IEC 63044-1:2017 + IEC 63044-1:2017/A1:2021)

Systèmes Electroniques pour les Foyers Domestiques et
les Bâtiments (HBES) et Systèmes de Gestion Technique
du Bâtiment (SGTB) - Partie 1: Exigences générales
(IEC 63044-1:2017 + IEC 63044-1:2017/A1:2021)

Allgemeine Anforderungen an die Elektrische
Systemtechnik für Heim und Gebäude (ESHG) und an
Systeme der Gebäudeautomation (GA) -
Teil 1: Allgemeine Anforderungen
(IEC 63044-1:2017 + IEC 63044-1:2017/A1:2021)

This European Standard was approved by CENELEC on 2017-03-03. Amendment A1 was approved by CENELEC on 2021-06-08. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard and its amendment 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

European foreword

The text of document 23/734/CDV, future edition 1 of IEC 63044-1, prepared by IEC/TC 23 "Electrical accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 63044-1:2017.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-12-03
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-03-03

This document supersedes EN 50491-1:2014.

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

IEC 62820-1-1	NOTE	Harmonized as EN 62820-1-1.
IEC 62949	NOTE	Harmonized as EN 62949.
IEC 63044-3	NOTE	Harmonized as EN 63044-3.
IEC 63044-5-1	NOTE	Harmonized as EN 63044-5-1.
IEC 63044-5-2	NOTE	Harmonized as EN 63044-5-2.
IEC 63044-5-3	NOTE	Harmonized as EN 63044-5-3.

A1 Amendment A1 European foreword

The text of document 23/913/CDV, future IEC 63044-1/A1, prepared by IEC/TC 23 "Electrical accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 63044-1:2017/A1:2021.

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INTERNATIONAL STANDARD



**Home and building electronic systems (HBES) and building automation and control systems (BACS) –
Part 1: General requirements**



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IEC Central Office
3, rue de Varembe
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
info@iec.ch
www.iec.ch

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INTERNATIONAL STANDARD



**Home and building electronic systems (HBES) and building automation and control systems (BACS) –
Part 1: General requirements**

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CONTENTS

FOREWORD.....	3
AMENDMENT A1 FOREWORD (A1).....	5
1 Scope.....	7
2 Normative references	7
3 Terms, definitions and abbreviated terms	7
3.1 Terms and definitions.....	7
3.2 Abbreviated terms.....	8
4 General requirements	9
5 Standardization structure.....	9
5.1 Part 2: Environmental conditions.....	9
5.2 Part 3: Electrical safety requirements.....	9
5.3 Part 4: Functional safety	9
5.4 Part 5: EMC requirements.....	9
5.4.1 Overview	9
5.4.2 Part 5-1: EMC requirements, conditions and test set-up	9
5.4.3 Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light-industrial environments.....	10
5.4.4 Part 5-3: EMC requirements for HBES/BACS used in industrial environments.....	10
5.5 Part 6: Planning and installation of HBES	10
Bibliography.....	13
Table 1 – Summary of the most relevant application requirements.....	11
Table 2 – Applications and clusters of services for HBES/BACS	12

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HOME AND BUILDING ELECTRONIC SYSTEMS (HBES) AND
BUILDING AUTOMATION AND CONTROL SYSTEMS (BACS) –****Part 1: General requirements****FOREWORD**

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International Standard IEC 63044-1 has been prepared by IEC technical committee 23: Electrical accessories.

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.

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CDV	Report on voting
23/734/CDV	23/746/RVC

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

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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/standardsdev/publications/.

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

Part 1: General requirements

1 Scope

This part of IEC 63044 applies to all Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) and specifies the general requirements for these systems and products.

A1 *deleted text* **A1**

This document provides an overview of the IEC 63044 series.

To enable integration of a wide spectrum of applications, the IEC 63044 series covers

- electrical safety,
- functional safety,
- environmental conditions,
- EMC requirements, and
- installation and cabling rules and topologies.

IEC 63044 is a series of product family standards

2 Normative references

There are no normative references in this document.

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1.1

A1 gateway

functional unit that connects different networks through interfaces **A1**

3.1.2

HBES/BACS network

A1 network based on one physical layer that facilitates the communication in HBES/BACS

Note 1 to entry: Examples of HBES/BACS networks are RF, twisted pair, PLC.