

Irish Standard I.S. EN 50491-5-3:2010

General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) -- Part 5-3: EMC requirements for HBES/BACS used in industry environment

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1 Swift Square, F +3 Northwood, Santry E sta Dublin 9	T +353 1 807 3800 Sales: F +353 1 807 3838 T +353 1 857 6730 E standards@nsai.ie F +353 1 857 6729 W NSAI.ie W standards.ie		
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English version

General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) -Part 5-3: EMC requirements for HBES/BACS used in industry environment

Exigences générales relatives aux systèmes électroniques pour les foyers domestiques et les bâtiments (HBES) et aux Systèmes de Gestion Technique du Bâtiment (SGTB) -Partie 5-3: Exigences CEM relatives aux HBES/SGTB destinés à être utilisés en environnement industriel Allgemeine Anforderungen an die Elektrische Systemtechnik für Heim und Gebäude (ESHG) und an Systeme der Gebäudeautomation (GA) -Teil 5-3: EMV-Anforderungen an ESHG/GA für den Gebrauch im Industriebereich

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CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

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Foreword

This European Standard was prepared by a joint working group of CLC/TC 205, Home and Building Electronic Systems (HBES) and CEN/TC 247, Building Automation, Controls and Building Management (BACS). It was submitted to the formal vote and was approved by CENELEC as EN 50491-5-3 on 2010-04-01.

This document supersedes the relevant parts of EN 50090-2-2:1996 ¹); it is referenced by CEN/TC 247 and CLC/TC 205.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

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)	2011-04-01
_	latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2013-04-01

As a result of the discussions at the CLC/TC 205 meeting on 2004-10-5/6 concerning the structuring of their standards in general parts and open system parts (see CLC/TC 205/Sec0413/INF) the following new parts of EN 50491 under the generic title *"General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS)"* under the task of the JWG CEN/TC 247–CLC/TC 205 are proposed:

- Part 2 Environmental conditions;
- Part 3 Electrical safety requirements;
- Part 4-1²⁾ Functional safety requirements (for non safety related systems);
- Part 4-2²⁾ Functional safety requirements (for safety related systems);
- Part 5-1 EMC requirements, conditions and test set-up;
- Part 5-2 EMC requirements for HBES/BACS used in residential, commercial and light industry environment;
- Part 5-3 EMC requirements for HBES/BACS used in industry environment.

This draft European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and covers essential requirements of EC Directive EMC Directive 2004/108/EC. See Annex ZZ.

¹⁾ EN 50090-2-2:1996 + Corr. Mar 1997 + A1:2002 + A2:2007, Home and Building Electronic Systems (HBES) – Part 2-2: System overview – General technical requirements

²⁾ Under consideration.

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EN 50491-5-3:2010

Introduction

EN 50491 series deals with developing and testing Home and Building Electronic Systems (HBES) and Building Automation and Control System (BACS)

The expression HBES/BACS covers any combination of HBES and/or BACS products including their separate connected/detachable devices linked together via one or more networks.

Part 5 of this series applies to HBES/BACS devices to ensure a common level of EMC requirements.

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1 Scope

The scope of EN 50491-5-1:2010 applies, with the following modification:

Replace the 3rd paragraph with the following ones:

This is the specific part of EN 50491-5 for HBES/BACS used in industry environment.

The environment covered by this standard is industrial, according to the definition in EN 61000-6-2.

2 Normative references

The following referenced documents are indispensable for the application 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.

EN 50491-5-1	General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) – Part 5-1: EMC requirements, conditions and test set-up
EN 61000-4-4	Electromagnetic compatibility (EMC) – Part 4-4: Testing and measurement techniques – Electrical fast transient/burst immunity test (IEC 61000-4-4)
EN 61000-4-5	Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test (IEC 61000-4-5)
EN 61000-4-6	Electromagnetic compatibility (EMC) – Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields (IEC 61000-4-6)
EN 61000-6-2	Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity for industrial environments (IEC 61000-6-2)
EN 61000-6-4	Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard for industrial environments (IEC 61000-6-4)

3 Terms, definitions and abbreviations

For the purposes of this document, the terms, definitions and abbreviations given in EN 50491-5-1:2010 apply.

4 General requirements

The general requirements of EN 50491-5-1:2010 apply.

5 Performance criteria

The performance criteria of EN 50491-5-1:2010 apply.

6 Standard test conditions

The standard test conditions of EN 50491-5-1:2010 apply.



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