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BS EN 61000-6-7:2015



BSI Standards Publication

Electromagnetic compatibility (EMC)

Part 6-7: Generic standards —
Immunity requirements for equipment
intended to perform functions in a
safety-related system (functional safety)
in industrial locations

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This British Standard is the UK implementation of EN 61000-6-7:2015. It is identical to IEC 61000-6-7:2014.

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 secretary.

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Published by BSI Standards Limited 2015

ISBN 978 0 580 73863 0

ICS 33.100.20

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 May 2015.

Amendments/corrigenda issued since publication

Date	Text affected
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EUROPÄISCHE NORM

May 2015

ICS 33.100.20

English Version

**Electromagnetic compatibility (EMC) - Part 6-7: Generic standards - Immunity requirements for equipment intended to perform functions in a safety-related system (functional safety) in industrial locations
(IEC 61000-6-7:2014)**

Compatibilité électromagnétique (CEM) - Partie 6-7:
Normes génériques - Exigences d'immunité pour les
équipements visant à exercer des fonctions dans un
système lié à la sécurité (sécurité fonctionnelle) dans des
sites industriels
(IEC 61000-6-7:2014)

Elektromagnetische Verträglichkeit (EMV) - Teil 6-7:
Fachgrundnormen - Störfestigkeitsanforderungen an Geräte
und Einrichtungen, die zur Durchführung von Funktionen in
sicherheitsbezogenen Systemen (funktionale Sicherheit)
an industriellen Standorten vorgesehen sind
(IEC 61000-6-7:2014)

This European Standard was approved by CENELEC on 2014-11-13. 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.

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.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

The text of document 77/462/FDIS, future edition 1 of IEC 61000-6-7, prepared by IEC/TC 77 "Electromagnetic compatibility" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61000-6-7:2015.

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) 2015-11-08
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-11-13

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Endorsement notice

The text of the International Standard IEC 61000-6-7:2014 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 standards indicated:

IEC 60204-1:2005 and A1:2008	NOTE	Harmonized as EN 60204-1:2006 (modified) and EN 60204-1:2009/A1:2009 (not modified)
IEC 61000-6-2:2005	NOTE	Harmonized as EN 61000-6-2:2005 (not modified).
IEC 61326-1:2012	NOTE	Harmonized as EN 61326-1:2013 (not modified).
IEC 61508-2	NOTE	Harmonized as EN 61508-2.
IEC 61508-4:2010	NOTE	Harmonized as EN 61508-4:2010 (not modified).
IEC 61511	NOTE	Harmonized in EN 61511 series (not modified).
IEC 61784-3	NOTE	Harmonized in EN 61784-3 series (not modified).
IEC 62061:2005	NOTE	Harmonized as EN 62061:2005 (not modified).
ISO 13849-1:2006	NOTE	Harmonized as EN 13849-1:2008 (not modified).
ISO 13849-2:2012	NOTE	Harmonized as EN 13849-2:2012 (not modified).

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(normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When 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.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050	series	International Electrotechnical Vocabulary	-	-
IEC/TS 61000-1-2	2008	Electromagnetic compatibility (EMC) - Part 1-2: General - Methodology for the achievement of functional safety of electrical and electronic systems including equipment with regard to electromagnetic phenomena	-	-
IEC 61000-1-6	2012	Electromagnetic compatibility (EMC) - Part 1-6: General - Guide to the assessment of measurement uncertainty	-	-
IEC 61000-4-2	-	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	EN 61000-4-2	-
IEC 61000-4-3	-	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	EN 61000-4-3	-
IEC 61000-4-4	-	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	EN 61000-4-4	-
IEC 61000-4-5	-	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	EN 61000-4-5	-
IEC 61000-4-6	-	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	EN 61000-4-6	-

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IEC 61000-4-8	-	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	EN 61000-4-8	-
IEC 61000-4-11	-	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	EN 61000-4-11	-
IEC 61000-4-16	-	Electromagnetic compatibility (EMC) - Part 4-16: Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz	EN 61000-4-16	-
IEC 61000-4-29	-	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	EN 61000-4-29	-
IEC 61000-4-34	-	Electromagnetic compatibility (EMC) - Part 4-34: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with mains current more than 16 A per phase	EN 61000-4-34	-
IEC 61508	series	Functional safety of electrical/electronic/programmable electronic safety-related systems	EN 61508	series
IEC 61784-3	-	Industrial communication networks - Profiles - Part 3: Functional safety fieldbuses - General rules and profile definitions	EN 61784-3	-
IEC Guide 107	-	Electromagnetic compatibility - Guide to the drafting of electromagnetic compatibility publications	-	-

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CONTENTS

FOREWORD	4
INTRODUCTION	6
1 Scope and object	7
2 Normative references	7
3 Terms, definitions and abbreviations	8
3.1 Terms and definitions	8
3.2 Abbreviations	12
4 General	13
4.1 Conformance to IEC Guide 107	13
4.2 Conformance to IEC/TS 61000-1-2	13
4.3 Strategy for the availability of functions intended for safety applications	14
5 Performance criteria	14
5.1 Performance criterion for functional safety applications	14
5.2 Application of the performance criterion DS	15
6 Test plan	15
6.1 General	15
6.2 Configuration of EUT during testing	15
6.2.1 General	15
6.2.2 Composition of EUT	16
6.2.3 Assembly of EUT	16
6.2.4 I/O ports	16
6.2.5 Auxiliary equipment	16
6.2.6 Cabling and earthing (grounding)	16
6.3 Operational conditions of EUT during testing	16
6.3.1 Modes	16
6.3.2 Environmental conditions	16
6.3.3 EUT application software during test	16
6.4 Specification of functional performance	17
6.5 Test description	17
6.6 Test performance	17
6.6.1 General	17
6.6.2 Aspects to be considered during application of DS	17
7 Immunity requirements	18
8 Test setup and test philosophy	25
8.1 Test setup	25
8.2 Test philosophy	26
8.3 Test configuration	26
8.4 Monitoring	27
9 Test results and test report	27
Annex A (informative) Strategy for functions intended for safety applications	28
Bibliography	29
Figure 1 – Equipment ports	11