SLOVENSKI STANDARD
SIST EN 61784-3:2017

01-marec-2017

Nadomešča:
SIST EN 61784-3:2010

Industrijska komunikacijska omrežja - Profili - 3. del: Funkcionalno varna procesna vodila - Splošna pravila in definicije profilov (IEC 61784-3:2016)

Industrial communication networks - Profiles - Part 3: Functional safety fieldbuses - General rules and profile definitions (IEC 61784-3:2016)

Industrielle Kommunikationsnetze - Profile - Teil 3: Funktional sichere Übertragung bei Feldbussen - Allgemeine Regeln und Festlegungen für Profile (IEC 61784-3:2016)

Réseaux de communication industriels - Profils - Partie 3: Bus de terrain de sécurité fonctionnelle - Règles générales et définitions de profils (IEC 61784-3:2016)

Ta slovenski standard je istoveten z: **EN 61784-3:2016**

ICS:

25.040.40	Merjenje in krmiljenje industrijskih postopkov	Industrial process measurement and control
35.100.05	Večslojne uporabniške rešitve	Multilayer applications

SIST EN 61784-3:2017 **en,fr,de**

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61784-3

August 2016

ICS 25.040.40; 35.100.05

Supersedes EN 61784-3:2010

English Version

Industrial communication networks - Profiles - Part 3: Functional safety fieldbuses - General rules and profile definitions (IEC 61784-3:2016)

Réseaux de communication industriels - Profils - Partie 3: Bus de terrain de sécurité fonctionnelle - Règles générales et définitions de profils (IEC 61784-3:2016)

Industrielle Kommunikationsnetze - Profile - Teil 3: Funktional sichere Übertragung bei Feldbussen - Allgemeine Regeln und Festlegungen für Profile (IEC 61784-3:2016)

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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

Ref. No. EN 61784-3:2016 E

EN 61784-3:2016

European foreword

The text of document 65C/840/FDIS, future edition 3 of IEC 61784-3, prepared by SC 65C "Industrial networks" of IEC/TC 65 "Industrial-process measurement, control and automation" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61784-3:2016.

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)   2017-03-17

* latest date by which the national standards conflicting with the document have to be withdrawn   (dow)   2019-06-17

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

IEC 60204-1	NOTE	Harmonized as EN 60204-1.	
IEC 61131-2:2007	NOTE	Harmonized as EN 61131-2:2007 (not modified).	
IEC 61131-6	NOTE	Harmonized as EN 61131-6.	
IEC 61496	NOTE	Harmonized in EN 61496 series.	
IEC 61496-1	NOTE	Harmonized as EN 61496-1.	
IEC 61508-4:2010	NOTE	Harmonized as EN 61508-4:2010 (not modified).	
IEC 61508-5:2010	NOTE	Harmonized as EN 61508-5:2010 (not modified).	
IEC 61511	NOTE	Harmonized in EN 61511 series.	
IEC 61800-5-2	NOTE	Harmonized as EN 61800-5-2.	
IEC 62061:2005	NOTE	Harmonized as EN 62061:2005 (not modified).	
IEC/TR 62685	NOTE	Harmonized as CLC/TR 62685.	

ISO 10218-1   NOTE   Harmonized as EN ISO 10218-1.

ISO 12100   NOTE   Harmonized as EN ISO 12100.

ISO 13849   NOTE   Harmonized in EN ISO 13849 series.

ISO 13849-1:2015   NOTE   Harmonized as EN ISO 13849-1:2015 (not modified).

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Annex ZA
(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.

Publication	Year	Title	EN/HD	Year
IEC 61000-6-7	-	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	EN 61000-6-7	-
IEC 61010-2-201	2013	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-201: Particular requirements for control equipment	EN 61010-2-201 + AC	2013 2013
IEC 61158	series	Industrial communication networks - Fieldbus specifications	EN 61158	series
IEC 61326-3-1	-	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-1: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - General industrial applications	EN 61326-3-1	-
IEC 61326-3-2	-	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-2: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - Industrial applications with specified electromagnetic environment	EN 61326-3-2	-
IEC 61508	series	Functional safety of electrical/electronic/programmable electronic safety-related systems	EN 61508	series

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Publication	Year	Title	EN/HD	Year
IEC 61508-1	2010	Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 1: General requirements	EN 61508-1	2010
IEC 61508-2	-	Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 2: Requirements for electrical/electronic/programmable electronic safety-related systems	EN 61508-2	-
IEC 61784-1	-	Industrial communication networks - Profiles - Part 1: Fieldbus profiles	EN 61784-1	-
IEC 61784-2	-	Industrial communication networks - Profiles - Part 2: Additional fieldbus profiles for real-time networks based on ISO/IEC 8802-3	EN 61784-2	-
IEC 61784-3-1	-	Industrial communication networks - Profiles - Part 3-1: Functional safety fieldbuses - Additional specifications for CPF 1	EN 61784-3-1	-
IEC 61784-3-2	-	Industrial communication networks - Profiles - Part 3-2: Functional safety fieldbuses - Additional specifications for CPF 2	EN 61784-3-2	-
IEC 61784-3-3	-	Industrial communication networks - Profiles - Part 3-3: Functional safety fieldbuses - Additional specifications for CPF 3	EN 61784-3-3	-
IEC 61784-3-6	-	Industrial communication networks - Profiles - Part 3-6: Functional safety fieldbuses - Additional specifications for CPF 6	EN 61784-3-6	-
IEC 61784-3-8	-	Industrial communication networks - Profiles - Part 3-8: Functional safety fieldbuses - Additional specifications for CPF 8	EN 61784-3-8	-
IEC 61784-3-12	-	Industrial communication networks - Profiles - Part 3-12: Functional safety fieldbuses - Additional specifications for CPF 12	EN 61784-3-12	-
IEC 61784-3-13	-	Industrial communication networks - Profiles - Part 3-13: Functional safety fieldbuses - Additional specifications for CPF 13	EN 61784-3-13	-
IEC 61784-3-14	-	Industrial communication networks - Profiles - Part 3-14: Functional safety fieldbuses - Additional specifications for CPF 14	EN 61784-3-14	-

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Publication	Year	Title	EN/HD	Year
IEC 61784-3-17	- [1]	Industrial communication networks - Profiles - Part 3-17: Functional safety fieldbuses - Additional specifications for CPF 17	-	-
IEC 61784-3-18	-	Industrial communication networks - Profiles - Part 3-18: Functionnal safety fieldbuses - Additional specifications for CPF 18	EN 61784-3-18	-
IEC 61784-5	series	Industrial communication networks - Profiles - Part 5: Installation of fieldbuses	EN 61784-5	series
IEC 61918 (mod) -	2013 -	Industrial communication networks - Installation of communication networks in industrial premises	EN 61918 + AC	2013 2014
IEC 62443	series	Industrial communication networks - Network and system security	EN 62443	series

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1) To be published.

IEC 61784-3

Edition 3.0 2016-05

INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour
inside

Industrial communication networks – Profiles –
Part 3: Functional safety fieldbuses – General rules and profile definitions

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Partie 3: Bus de terrain de sécurité fonctionnelle – Règles générales et
définitions de profils

INTERNATIONAL
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INTERNATIONALE

ICS 25.040.40; 35.100.05

ISBN 978-2-8322-3238-5

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**INDUSTRIAL COMMUNICATION NETWORKS –
PROFILES –**

**Part 3: Functional safety fieldbuses –
General rules and profile definitions**

FOREWORD

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International Standard IEC 61784-3 has been prepared by subcommittee 65C: Industrial networks, of IEC technical committee 65: Industrial-process measurement, control and automation.

This third edition cancels and replaces the second edition published in 2010. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- clarifications and additional explanations for requirements, updated references;

- deletion of technical overviews of profiles (Clauses 6 to 13), and associated dedicated subclauses for terms, definitions, symbols and abbreviations;

- addition of profiles for Communication Profile Families 8, 17 and 18 (Clauses 10, 14, 15);

- clarifications of models in Annex A;