
Industrijska komunikacijska omrežja - Profili - 3-12. del: Funkcijska varnost procesnih vodil - Dodatne specifikacije za CPF 12 (IEC 61784-3-12:2010/A1:2019)

Industrial communication networks - Profiles - Part 3-12: Functional safety fieldbuses - Additional specifications for CPF 12 (IEC 61784-3-12:2010/A1:2019)

Industrielle Kommunikationsnetze - Profile - Teil 3-12: Funktionale sichere Übertragung bei Feldbussen - Zusätzliche Festlegungen für die Kommunikationsprofilfamilie 12 (IEC 61784-3-12:2010/A1:2019)

(standards.iteh.ai)

Réseaux de communication industriels - Partie 3-12: Bus de terrain à sécurité fonctionnelle - Spécifications complémentaires pour le CPF 12 (IEC 61784-3-12:2010/A1:2019)

<https://standards.iteh.ai/catalog/standards/sist/99ea948e-8e85-4682-80c5-0583988b2283/sist-en-61784-3-12-2010-a1-2020>

Ta slovenski standard je istoveten z: EN 61784-3-12:2010/A1:2019

ICS:

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

SIST EN 61784-3-12:2010/A1:2020 **en,fr,de**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 61784-3-12:2010/A1:2020

<https://standards.iteh.ai/catalog/standards/sist/99ea948e-8e85-4682-80c5-0583988b2283/sist-en-61784-3-12-2010-a1-2020>

EUROPEAN STANDARD

EN 61784-3-12:2010/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2019

ICS 25.040.40; 35.100.05

English Version

Industrial communication networks - Profiles - Part 3-12:
Functional safety fieldbuses - Additional specifications for CPF
12
(IEC 61784-3-12:2010/A1:2019)

Réseaux de communication industriels - Partie 3-12: Bus de terrain à sécurité fonctionnelle - Spécifications complémentaires pour le CPF 12 (IEC 61784-3-12:2010/A1:2019)

Industrielle Kommunikationsnetze - Profile - Teil 3-12: Funktional sichere Übertragung bei Feldbussen - Zusätzliche Festlegungen für die Kommunikationsprofilfamilie 12 (IEC 61784-3-12:2010/A1:2019)

This amendment A1 modifies the European Standard EN 61784-3-12:2010; it was approved by CENELEC on 2019-12-11. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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

EN 61784-3-12:2010/A1:2019 (E)**European foreword**

The text of document 65C/960/CDV, future IEC 61784-3-12/A1, 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 61784-3-12:2010/A1:2019.

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) 2020-09-11
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-12-11

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

iTeh STANDARD PREVIEW
Endorsement notice
(standards.itih.ai)

The text of the International Standard IEC 61784-3-12:2010/A1:2019 was approved by CENELEC as a European Standard without any modification.



IEC 61784-3-12

Edition 1.0 2019-11

INTERNATIONAL STANDARD

AMENDMENT 1

**Industrial communication networks – Profiles –
Part 3-12: Functional safety fieldbuses – Additional specifications for CPF 12**

STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 61784-3-12:2010/A1:2020
<https://standards.iteh.ai/catalog/standards/sist/99ea948e-8e85-4682-80c5-0583988b2283/sist-en-61784-3-12-2010-a1-2020>

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

ICS 25.040.40; 35.100.05

ISBN 978-2-8322-7568-9

Warning! Make sure that you obtained this publication from an authorized distributor.

FOREWORD

This amendment has been prepared by subcommittee 65C: Industrial networks, of IEC Technical Committee 65: Industrial-process measurement, control and automation.

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

CDV	Report on voting
65C/960/CDV	65C/980/RVC

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

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

A bilingual version of this publication may be issued at a later date.

[SIST EN 61784-3-12:2010/A1:2020](https://standards.iteh.ai/catalog/standards/sist/99ea948e-8e85-4682-80c5-0583988b2283/sist-en-61784-3-12-2010-a1-2020)
<https://standards.iteh.ai/catalog/standards/sist/99ea948e-8e85-4682-80c5-0583988b2283/sist-en-61784-3-12-2010-a1-2020>

INTRODUCTION to Amendment 1

This Amendment 1 corrects technical errors in state tables for the FSoE Slave.

- Correct invalid value for the "bNew" parameter of SendFrame in transitions RESET_OK (Reset state), SESSION_STAY2 (Session state), CONN_RESET2 (Connection state), PARA_RESET2 (Parameter state), and DATA_RESET2 (Data state). This parameter shall only be set to "FALSE" in all back-to-reset-transitions when all values are set to their defaults.
- Add missing action in Transition SESSION_FAIL5 (Session state).
- Correct invalid value for the address parameter of STORE_DATA in transition CONN_STAY1 (Connection state).

7.5 State table for FSoE Slave

7.5.2 Reset state

7.5.2.1 Frame received event

Replace, in the row for Transition "RESET_OK", in the third column "Action", "FALSE" with "TRUE".

7.5.3 Session state

7.5.3.1 Frame received event

Replace, in the row for Transition "SESSION_STAY2", in the third column "Action", "FALSE" with "TRUE".

Insert, in the row for Transition "SESSION_FAIL5", in the third column "Action", between lines "SlaveSeqNo:= 1;" and "DataCommand:= FailSafeData;" a new line "InitSeqNo:= 1;".

7.5.4 Connection state

7.5.4.1 Frame received event

Replace, in the row for Transition "CONN_STAY1", in the third column "Action", "Connection[4-BytesToBeSent]" with "ConnectionData[4-BytesToBeSent]".

Replace, in the row for Transition "CONN_RESET2", in the third column "Action", "FALSE" with "TRUE".

[SIST EN 61784-3-12:2010/A1:2020](https://standards.iteh.ai/catalog/standards/sist/99ea948e-8e85-4682-80c5-0583988b2283/sist-en-61784-3-12-2010-a1-2020)

7.5.5 Parameter state

<https://standards.iteh.ai/catalog/standards/sist/99ea948e-8e85-4682-80c5-0583988b2283/sist-en-61784-3-12-2010-a1-2020>

7.5.5.1 Frame received event

Replace, in the row for Transition "PARA_RESET2", in the third column "Action", "FALSE" with "TRUE".

7.5.6 Data state

7.5.6.1 Frame received event

Replace, in the row for Transition "DATA_RESET2", in the third column "Action", "FALSE" with "TRUE".
