

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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

**Réseaux de communication industriels – Profils –
Partie 3: Bus de terrain de sécurité fonctionnelle – Règles générales et
définitions de profils**



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Withdrawn

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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;

- Annex B changed from informative to normative;
- addition of a new informative Annex E describing models for explicit and implicit FSCP mechanisms;
- addition of a new informative Annex F introducing an extended model for estimation of the total residual error rate;
- updates in parts for CPF 1, CPF 2, CPF 3, CPF 8, CPF 13 (details provided in the parts);
- addition of a new part for CPF 17.

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

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65C/840/FDIS	65C/848/RVD

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

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