IEC 61800-2

Edition 2.0 2015-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour inside

Adjustable speed electrical power drive systems –
Part 2: General requirements – Rating specifications for low voltage adjustable speed a.c. power drive systems

Entraînements électriques de puissance à vitesse variable –
Partie 2: Exigences générales – Spécifications de dimensionnement pour systèmes d'entraînement de puissance à vitesse variable en courant alternatif et basse tension

IEC 61800-2:2015-07(en-fr)

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ADJUSTABLE SPEED ELECTRICAL POWER DRIVE SYSTEMS –

Part 2: General requirements – Rating specifications for low voltage adjustable speed a.c. power drive systems

FOREWORD

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International Standard IEC 61800-2 has been prepared by subcommittee 22G: Adjustable speed electric drive systems incorporating semiconductor power converters, of IEC technical committee 22: Power electronic systems and equipment.

This second edition cancels and replaces the first edition published in 1998. This edition constitutes a technical revision.

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

a) Clause 1 (Scope) has been updated
b) Clause 2 (Normative references) has been updated

c) Clause 3 (Definitions) has been updated including fundamental definitions to be used across the IEC 61800 series of standards.

d) Clause 4 has been updated with respect to:

   1) description of the basic topology for *BDM/CDM/PDS* (4.2);

   2) ratings and performance (4.3 and 4.4);

   3) reference to applicable standards within the IEC 61800 series with respect to EMC (IEC 61800-3), Electrical safety (IEC 61800-5-1), Functional safety (IEC 61800-5-2), Load duty aspects (IEC TR 61800-6), Communication profiles (IEC 61800-7 series) and *Power interface* voltage (IEC TS 61800-8) to avoid conflicting requirements. (4.5, 4.6, 4.7, 4.10, 4.11, 4.12,);

   4) update of requirement for ECO design (4.8);

   5) update of requirement for environmental evaluation. (4.9);

   6) implementation of requirement for explosive atmosphere (4.13).

e) Clause 5 has been updated with test requirement in order to provide a clear link between design requirement and test requirement.

f) Clause 6 has been updated to harmonize the marking and documentation requirement within the IEC 61800 series.

g) Existing Annexes A to G have been deleted and replaced with new Annexes A to C.

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

FDIS	Report on voting
22G/303/FDIS	22G/305/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.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 61800 series, published under the general title *Adjustable speed electrical power drive systems*, can be found on the IEC website.

In this standard, the terms in *italics* are defined in Clause 3.

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

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