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Električni pogonski sistemi z nastavljivo hitrostjo - 3. del: Zahteve za elektromagnetno združljivost in posebne preskusne metode (IEC 61800-3:2017)

Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods (IEC 61800-3:2017)

Drehzahlveränderbare elektrische Antriebe - Teil 3: EMV-Anforderungen einschließlich spezieller Prüfverfahren (IEC 61800-3:2017)

Entraînements électriques de puissance à vitesse variable - Partie 3: Exigences de CEM et méthodes d'essais spécifiques (IEC 61800-3:2017)

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en

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EUROPEAN STANDARD
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**Adjustable speed electrical power drive systems - Part 3: EMC
requirements and specific test methods
(IEC 61800-3:2017)**

Entraînements électriques de puissance à vitesse variable -
Partie 3: Exigences de CEM et méthodes d'essais
spécifiques
(IEC 61800-3:2017)

Drehzahlveränderbare elektrische Antriebssysteme - Teil 3:
EMV-Anforderungen einschließlich spezieller Prüfverfahren
(IEC 61800-3:2017)

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EN IEC 61800-3:2018 (E)**European foreword**

The text of document 22G/347/FDIS, future edition 3 of IEC 61800-3, prepared by SC 22G "Adjustable speed electric drive systems incorporating semiconductor power converters" of IEC/TC 22 "Power electronic systems and equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61800-3:2018.

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

IEC 60038:2009	NOTE	Harmonized as EN 60038:2011 (modified).
IEC 60065	NOTE	Harmonized as EN 60065.
IEC 60146-1-3:1991	NOTE	Harmonized as EN 60146-1-3:1993 (not modified).
IEC 60146-2:1999	NOTE	Harmonized as EN 60146-2:2000 (not modified).
IEC 60364-1:2005	NOTE	Harmonized as HD 60364-1:2008 (modified).
IEC 60664-1:2007	NOTE	Harmonized as HD 60664-1:2007 (not modified).
IEC 61000-2-12:2003	NOTE	Harmonized as EN 61000-2-12:2003 (not modified).
IEC 61000-4 (series)	NOTE	Harmonized as EN 61000-4 (series).
IEC 61000-4-7:2002	NOTE	Harmonized as EN 61000-4-7:2002 (not modified).
IEC 61000-4-9:2016	NOTE	Harmonized as EN 61000-4-9:2016 (not modified).
IEC 61000-4-10:2016	NOTE	Harmonized as EN 61000-4-10:2017 (not modified).
IEC 61000-6-1:2016	NOTE	Harmonized as EN 61000-6-1:2018 (not modified).
IEC 61000-6-2:2016	NOTE	Harmonized as EN 61000-6-2:2017 (not modified).
IEC 61000-6-4:2006	NOTE	Harmonized as EN 61000-6-4:2007 (not modified).

IEC 61000-6-5:2015	NOTE	Harmonized as EN 61000-6-5:2015 (not modified).
IEC 61400-21:2008	NOTE	Harmonized as EN 61400-21:2008 (not modified).
IEC 61557-8:2014	NOTE	Harmonized as EN 61557-8:2015 (not modified).
IEC 61557-9	NOTE	Harmonized as EN 61557-9.
IEC 61800-1:1997	NOTE	Harmonized as EN 61800-1:1998 (not modified).
IEC 61800-2:2015	NOTE	Harmonized as EN 61800-2:2015 (not modified).
IEC 61800-4:2002	NOTE	Harmonized as EN 61800-4:2003 (not modified).
IEC 61800-5-1:2007	NOTE	Harmonized as EN 61800-5-1:2007 (not modified).
CISPR 14-1:2016	NOTE	Harmonized as EN 55014-1:2017 (not modified).
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Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where 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 60146-1-1	2009	Semiconductor converters - General requirements and line commutated converters -- Part 1-1: Specification of basic requirements	EN 60146-1-1	2010
IEC 61000-2-2	2002	Electromagnetic compatibility (EMC) -- Part 2-2: Environment - Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems	EN 61000-2-2	2002
IEC 61000-2-4	2002	Electromagnetic compatibility (EMC) -- Part 2-4: Environment - Compatibility levels in industrial plants for low-frequency conducted disturbances	EN 61000-2-4	2002
IEC 61000-3-2	2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current - 16 A per phase)	EN 61000-3-2	2014
IEC 61000-3-3	2013	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current - 16 A per phase and not subject to conditional connection	EN 61000-3-3	2013
IEC 61000-3-11	2000	Electromagnetic compatibility (EMC) -- Part 3-11: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current ≤ 75 A and subject to conditional connection	EN 61000-3-11	2000

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IEC 61000-3-12	2011	Electromagnetic compatibility (EMC) -- Part 3-12: Limits - Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase	EN 61000-3-12	2011
IEC 61000-4-2	2008	Electromagnetic compatibility (EMC) -- Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	EN 61000-4-2	2009
IEC 61000-4-3	2006	Electromagnetic compatibility (EMC) -- Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	EN 61000-4-3	2006
IEC 61000-4-4	2012	Electromagnetic compatibility (EMC) -- Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	EN 61000-4-4	2012
IEC 61000-4-5	2014	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	EN 61000-4-5	2014
IEC 61000-4-6	2013	Electromagnetic compatibility (EMC) -- Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	EN 61000-4-6	2014
IEC 61000-4-8	2009	Electromagnetic compatibility (EMC) -- Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	EN 61000-4-8	2010
IEC 61000-4-11	2004	Electromagnetic compatibility (EMC) -- Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	EN 61000-4-11	2004
IEC 61000-4-13	2002	Electromagnetic compatibility (EMC) -- Part 4-13: Testing and measurement techniques - Harmonics and interharmonics including mains signaling at a.c. power port, low frequency immunity tests	EN 61000-4-13	2002
IEC 61000-4-34	2005	Electromagnetic compatibility (EMC) -- Part 4-34: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current more than 16 A per phase	EN 61000-4-34	2007
CISPR 11 (mod)	2015	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	EN 55011	2016
+ A1	2016		+ A1	2017

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CISPR 16-1-2	2014	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-2: Radio disturbance and immunity measuring apparatus - Coupling devices for conducted disturbance measurements	EN 55016-1-2	2014
CISPR 16-1-4	2010	Specification for radio disturbance and immunity measuring apparatus and methods -- Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements	EN 55016-1-4	2010
CISPR 22	-	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	-	-
CISPR 32	2015	Electromagnetic compatibility of multimedia equipment - Emission requirements	EN 55032	2015

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NORME INTERNATIONALE



**Adjustable speed electrical power drive systems –
Part 3: EMC requirements and specific test methods**

**Entraînements électriques de puissance à vitesse variable –
Partie 3: Exigences de CEM et méthodes d'essai spécifiques**

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