SLOVENSKI STANDARD
SIST EN IEC 61800-5-1:2024/oprA1:2026

01-marec-2026

Električni pogonski sistemi z nastavljivo hitrostjo - 5-1. del: Varnostne zahteve - Električne, toplotne in energijske - Dopolnilo 1

Amendment 1 - Adjustable speed electrical power drive systems - Part 5-1: Safety requirements - Electrical, thermal and energy

Elektrische Leistungsantriebssysteme mit einstellbarer Drehzahl - Teil 5-1: Anforderungen an die Sicherheit - Elektrische, thermische und energetische Anforderungen

Amendement 1 - Entraînements électriques de puissance à vitesse variable - Partie 5-1: Exigences de sécurité - Électrique, thermique et énergétique

Ta slovenski standard je istoveten z: **EN IEC 61800-5-1:2023/prA1:2025**

ICS:

29.160.30	Motorji	Motors
29.200	Usmerniki. Pretvorniki. Stabilizirano električno napajanje	Rectifiers. Convertors. Stabilized power supply

SIST EN IEC 61800-5-1:2024/oprA1:2026 en,fr,de

22G/529/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:	
IEC 61800-5-1/AMD1 ED3	
DATE OF CIRCULATION:	CLOSING DATE FOR VOTING:
2025-12-26	**2026-03-20**
SUPERSEDES DOCUMENTS:	
22G/516/CD, 22G/528/CC	

IEC SC 22G : ADJUSTABLE SPEED ELECTRIC POWER DRIVE SYSTEMS (PDS)	
SECRETARIAT:	SECRETARY:
United States of America	Mr Christopher Johnson
OF INTEREST TO THE FOLLOWING COMMITTEES:	HORIZONTAL FUNCTION(S):
TC 2,TC 22,TC 44,SC 121A,SC 121B	TC 22/SC 22G Horizontal Group Energy Efficiency
ASPECTS CONCERNED:	
Digital content,Electricity transmission and distribution,Electromagnetic Compatibility,Energy Efficiency,Environment,Information security and data privacy	
☒ SUBMITTED FOR CENELEC PARALLEL VOTING	☐ NOT SUBMITTED FOR CENELEC PARALLEL VOTING
Attention IEC-CENELEC parallel voting The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting. The CENELEC members are invited to vote through the CENELEC online voting system.	

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TITLE:

Amendment 1 - Adjustable speed electrical power drive systems - Part 5-1: Safety requirements - Electrical, thermal and energy

PROPOSED STABILITY DATE: 2031

NOTE FROM TC/SC OFFICERS:

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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ADJUSTABLE SPEED ELECTRICAL POWER DRIVE SYSTEMS -

Part 5-1: Safety requirements - Electrical, thermal and energy

AMENDMENT 1

FOREWORD

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Amendment 1 to IEC 61800-5-1:2022 has been prepared by subcommittee 22G: Adjustable speed electric power drive systems (PDS), of IEC technical committee 22: Power electronic systems and equipment.

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

Draft	Report on voting
XX/XX/XXXX	XX/XX/XXX

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

The language used for the development of this Amendment is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at

www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications/.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

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

List of changes intended for IEC 61800-5-1:2022, AMD 1

	Design Clause 4	Tests Clause 5	Marking Clause 6	Other
1. Update of the environmental conditions	4.4.2.1 General 4.4.2.6.2 Limits of the *working voltage* for the *DVC*, Table 2 4.9.1 General 4.9.1.1 Conditions during normal operating conditions 4.9.1.2 Conditions during transportation, storage and handling	5.1.5.3 Operating parameters for tests 5.2.6 Environmental tests (*type tests*) 5.2.6.1 General 5.2.6.2 Acceptance criteria 5.2.6.3.1 Preconditioning or recovery procedure for climatic tests 5.2.6.3.2 Dry heat test (*type test*) 5.2.6.3.3 Cold test (*type test*) 5.2.6.3.4 Damp heat test (steady state) (*type test*) 5.2.6.3.5 Damp heat test (cyclic) (*type test*) 5.2.6.4 Vibration test (*type test*) 5.2.6.5 Salt mist test (*type test*) 5.2.6.6 Dust test (*type test*)	6.1.1 Overview 6.2.1.4 g) Supplementary information for each *port* 6.2.1.5 Liquid cooled *BDM/CDM/PDS* 6.3.3 Environment 6.3.4 Handling and mounting 6.3.6.3.1 Operating ambient temperature	Annex V (informative) Considerations for environmental conditions V.1 General V.2 Examples for environmental operating conditions V.3 Environmental conditions during transportation, storage and handling V.4 Interdependance of air temperature and relative or absolute air humidity Bibliography 2 Normative references