

**Danfoss A/S**6430 Nordborg
Denmark
CVR nr.: 20 16 57 15Telephone: +45 7488 2222
Fax: +45 7449 0949**EU DECLARATION OF CONFORMITY****Danfoss A/S****Vacon**

declares under our sole responsibility that the **VACON® NX Liquid-Cooled drives**

Product category: Frequency Converter

Type designation(s): NXP 0000 5 A 0 N 1 YWV XXXXX ****

Characters can be replaced by following:

Character NXP: NXP, NXB, NXA, NXN

Character 0000: 0016, 0022, 0031, 0038, 0045, 0061, 0072, 0087, 0105, 0144, 0168, 0170, 0205, 0208, 0261, 0300, 0325, 0385, 0416, 0460, 0502, 0520, 0590, 0650, 0730, 0750, 0820, 0920, 1030, 1150, 1180, 1300, 1370, 1500, 1640, 1700, 1850, 2000, 2060, 2120, 2300, 2340, 2470, 2700, 2950, 3100, 3710, 4140

Character 5: 5, 6, 8

Character A: A, B, F, G

Character 0: 0

Character N: N, T

Character 1: 0, 1

Character Y: I, S, Y, N, T, W, U, 2, 8

Character W: W, P

Character V: F, G, S, V

Character XXXXX: Option board slots

* may be any number or letter indicating drive options which do not impact this DoC.

Covered by this declaration is in conformity with the following directive(s), regulation(s), standard(s) or other normative document(s), provided that the product is used in accordance with our instructions.

Low Voltage Directive [2014/35/EU]

EN 61800-5-1:2007

EN 61800-5-1:2007+A1:2017

EN 61800-5-1:2007+A11:2021

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

EN 62477-1:2012

EN 62477-1:2012+A11:2014

EN 62477-1:2012+A1:2017

EN 62477-1:2012+A12:2021

Safety requirements for power electronic converter systems and equipment - Part 1: General

| | | | |
|--|---|--|--|
| <p>Date: 2023.07.11 Place of issue: Helsinki</p> | <p>Issued by DocuSigned by: Jarmo Tirkkonen Signature: 1D4642BDD96D44A... Name: Jarmo Tirkkonen Title: Product owner</p> | <p>Date: 2023.07.11 Place of issue: Graasten</p> | <p>Approved by DocuSigned by: Frank Hansen Signature: 497E5800CCB1482... Name: Frank Hansen Title: Head of Marine</p> |
|--|---|--|--|

Danfoss only vouches for the correctness of the English version of this declaration. In the event of the declaration being translated into any other language, the translator concerned shall be liable for the correctness of the translation

EMC Directive [2014/30/EU]

EN 61800-3:2004

EN 61800-3:2004+A1:2012

(only immunity)

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

RoHS Directive [2011/65/EU including amendment 2015/863]

EN IEC 63000:2018

Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Commission Regulation (EU) 2019/1781 under the Ecodesign Directive 2009/125/EC including amendment in Commission Regulation (EU) 2021/341

EN 61800-9-2:2017

Adjustable speed electrical power drive systems - Part 9-2: Ecodesign for power drive systems, motor starters, power electronics and their driven applications - Energy efficiency indicators for power drive systems and motor starters.

Machinery Directive 2006/42/EC

EN 61800-5-2:2007

(Safe Stop function conforms with STO
– Safe Torque Off, SIL 3 Capability)

Adjustable speed electrical power drive systems - Part 5-2: Safety requirements - Functional

Other standards considered:

EN 60204-1:2018

(Stop category 0)

Safety of machinery - Electrical equipment of machines Part1: General requirements

Vacon NXP3 control board equipped with OPT-AF. The following apply:

EN ISO 13849-1:2015

(Category 3 / PL e)

Safety of machinery — Safety-related parts of control systems – Part 1: General principles for design

DIN EN 81-20:2014-11

(SIL 3 and HFT 1)

Safety rules for the construction and installation of lifts - Lifts for the transport of persons and goods - Part 20: Passenger and goods passenger lifts

Vacon NXP3 control board equipped with OPT-BL, OPT-BM, OPT-BN. The following apply:

EN ISO 13849-1:2015

(Category 4 / PL e)

Safety of machinery — Safety-related parts of control systems – Part 1: General principles for design

EN 61508-1 to -3:2010

(STO, SBC, SS1, SS2, SOS, SLS, SMS, SSR, SSM
up to SIL 3 capability)Functional safety of electrical/ electronic/ programmable electronic safety-related systems
Part 1: General requirements
Part 2: Requirements for electrical/ electronic/ programmable electronic safety-related systems
Part 3: Software Requirements

EN 62061:2005+A1:2013+A2:2015

(Safe Stop function)

Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems

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Electrical Equipment (Safety) Regulations 2016

BS EN 61800-5-1:2007

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

BS EN 61800-5-1:2007+A1:2017

BS EN 61800-5-1:2007+A11:2021

BS EN 62477-1:2012

Safety requirements for power electronic converter systems and equipment - Part 1: General

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Electromagnetic Compatibility Regulations 2016

BS EN 61800-3:2004 Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods
 BS EN 61800-3:2004+A1:2012
 (only immunity)

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 as amended

BS EN IEC 63000:2018 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

UK Statutory Instrument 2021 No 745: The Ecodesign for Energy-Related Products and Energy Information Regulations 2021, Chapter 6 & Schedules 16-18.

BS EN 61800-9-2:2017 Adjustable speed electrical power drive systems - Part 9-2: Ecodesign for power drive systems, motor starters, power electronics and their driven applications - Energy efficiency indicators for power drive systems and motor starters.

Supply of Machinery (Safety) Regulations 2008

BS EN 61800-5-2:2007 Adjustable speed electrical power drive systems - Part 5-2: Safety requirements - Functional
 (Safe Stop function conforms with STO
 – Safe Torque Off, SIL 3 Capability)

Other standards considered:

BS EN 60204-1:2018 Safety of machinery - Electrical equipment of machines Part1:
 (Stop category 0) General requirements

Vacon NXP3 control board equipped with OPT-AF. The following apply:

BS EN ISO 13849-1:2015 Safety of machinery — Safety-related parts of control systems –
 (Category 3 / PL e) Part 1: General principles for design

BS DIN EN 81-20:2014-11 Safety rules for the construction and installation of lifts - Lifts for
 (SIL 3 and HFT 1) the transport of persons and goods - Part 20: Passenger and goods passenger lifts

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BS EN ISO 13849-1:2015 Safety of machinery — Safety-related parts of control systems –
 (Category 4 / PL e) Part 1: General principles for design

BS EN 61508-1 to -3:2010 Functional safety of electrical/ electronic/ programmable
 (STO, SBC, SS1, SS2, SOS, electronic safety-related systems
 SLS, SMS, SSR, SSM Part 1: General requirements
 up to SIL 3) Part 2: Requirements for electrical/ electronic/ programmable
 electronic safety-related systems
 Part 3: Software Requirements

BS EN 62061:2005+A1:2013+A2:2015 Safety of machinery - Functional safety of safety-related electrical,
 (Safe Stop function) electronic and programmable electronic control systems

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