

Danfoss A/S

6430 Nordborg
Denmark
CVR nr.: 20 16 57 15

Telephone: +45 7488 2222
Fax: +45 7449 0949

EU DECLARATION OF CONFORMITY

Danfoss A/S
Danfoss Drives

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: 1, 0

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 Adjustable speed electrical power drive systems – Part 5-1:

EN 61800-5-1:2007+A1:2017 Safety requirements – Electrical, thermal and energy

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

Date: 2025.07.03 Place of issue: Vaasa	Issued by Signature: <i>Jarmo Tirkkonen</i> Name: Jarmo Tirkkonen Title: Product owner	Date: 2025.07.03 Place of issue: Vaasa	Approved by Signature:  Name: Jari Marjo Title: Vice president, Industrial drives
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EN 62477-1:2012 Safety requirements for power electronic converter systems
 EN 62477-1:2012+A11:2014 and equipment – Part 1:General
 EN 62477-1:2012+A1:2017
 EN 62477-1: 2012+A12:2021

EMC Directive [2014/30/EU]

EN61800-3:2004 Adjustable speed electrical power drive systems – Part 3: EMC
 EN61800-3:2004+A1:2012 requirements and specific test methods
 (only immunity)

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]

EN61800-5-2:2007 Adjustable speed electrical power drive systems – Part 5-2:
 (Safe Stop function conforms Safety requirements - functional
 with STO – Safe Torque off,
 SIL3 Capability)

Other standards considered:

EN60204-1-3:2018 Safety of machinery – Electrical equipment of machines Part1:
 (Stop Category 0) General requirements

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Vacn 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 (SIL3 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

Vacn 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
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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
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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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