

**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****Vacon**declares under our sole responsibility that the **VACON® NXS/P AC drives****Product category:** Frequency Converter**Type designation(s):** NXP 0000 5 A 2 H 1 YWV XXXXX \*\*\*\*

Characters can be replaced by following:

Character NXP: NXP, NXS

Character 0000: 0003, 0004, 005, 0007, 0008, 0009, 0010, 0011, 0012, 0013, 0016, 0017, 0018, 0022, 0025, 0027, 0031, 0034, 0038, 0041, 0045, 0048, 0052, 0061, 0062, 0072, 0075, 0080, 0087, 0088, 0100, 0105, 0114, 0125, 0140, 0144, 0168, 0170, 0205, 0208, 0261, 0300, 0325, 0385, 0416, 0460, 0502, 0520, 0590, 0650, 0730, 0750, 0820, 0920, 1030, 1150, 1180, 1300, 1450, 1500, 1770, 1900, 2150, 2250

Character 5: 2, 5, 6

Character A: A, B, F, G

Character 2: 0, 2, 5, T

Character H: C, H, L, T, N

Character 1: 0, 1, 2

Character Y: S, B, J

Character W: S

Character V: S, V, F, G, A, B, N, O, X, Y

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: Safety

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

requirements – Electrical, thermal and energy

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

Date: <b>2023.07.11</b>	Issued by <b>Jarmo Tirkkonen</b> DocuSigned by: Signature: 1D4642BDD96D44A... Name: Jarmo Tirkkonen Title: Product owner	Date: <b>2023.07.11</b> Place of issue: <b>Helsinki</b>	Approved by <b>Jussi Sihvola</b> DocuSigned by: Signature: 873CADA0558F43A... Name: Jussi Sihvola Title: Head of Performance Products
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## EMC Directive [2014/30/EU]

EN 61800-3:2004  
EN 61800-3:2004+A1:2012

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 Safety of machinery - Electrical equipment of machines Part 1: General requirements (Stop category 0)

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

EN ISO 13849-1:2015 Safety of machinery — Safety-related parts of control systems —  
(Category 3 / PL e) 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 Functional safety of electrical/ electronic/ programmable  
(STO, SBC, SS1, SS2, SOS, SLS, SMS, SSR, SSM electronic safety-related systems  
up to SIL 3 capability) 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

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

requirements – Electrical, thermal and energy

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

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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	

### **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
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### **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.
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### **Supply of Machinery (Safety) Regulations 2008**

BS 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
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### **Other standards considered:**

BS EN 60204-1:2018 (Stop category 0)	Safety of machinery - Electrical equipment of machines Part1: General requirements
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Vacon NXP3 control board equipped with OPT-AF. The following apply:

BS EN ISO 13849-1:2015 (Category 3 / PL e)	Safety of machinery — Safety-related parts of control systems – Part 1: General principles for design
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BS 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
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Vacon NXP3 control board equipped with OPT-BL, OPT-BM, OPT-BN. The following apply:

BS 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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BS EN 61508-1 to -3:2010 (STO, SBC, SS1, SS2, SOS, SLS, SMS, SSR, SSM up to SIL 3)	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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BS 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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