



Danfoss A/S

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CVR nr.: 20 16 57 15

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EU DECLARATION OF CONFORMITY
Danfoss A/S
Vacon

declares under our sole responsibility that the **VACON® NXP System Drive Products**

Product category: Frequency Converter

Type designation(s):

- ADS sections, ADS_ : 400, 600, 800, 1000
- MIS sections, MIS_ : 250, 320, 400, 630, 800, 1000, 1250, 1600, 2000, 2500, 3200, 4000, 5000
- NFS sections, NFS_ : 1x, 2x
- AFS sections, AFS_ : 9, 10, 13
- IUS sections, IUS_ : 4, 6, 7, 8, 9, 9_2, 10, 10_2, 12, 13, 14
- DBS sections, DBS_ : 4, 7, 8, 9, 10
- TSU sections, TSU_ : 400

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 requirements – Electrical, thermal and energy
- EN 61800-5-1:2007+A1:2017
- EN 61800-5-1:2007+A11:2021

EMC Directive [2014/30/EU]

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

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

<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: Helsinki</p>	<p>Approved by DocuSigned by: Jari Marjo Signature: A614AA2339E943D... Name: Jari Marjo Title: Head of System Products</p>
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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

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 61439-1:2011

(Enclosure section)

Low-voltage switchgear and controlgear assemblies - Part 1:
General rules

EN 61439-2:2011

(Enclosure section)

Low-voltage switchgear and controlgear assemblies - Part 2:
Power switchgear and controlgear assemblies

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
- BS EN 61800-5-1:2007+A1:2017 requirements – Electrical, thermal and energy
- BS EN 61800-5-1:2007+A11:2021

Electromagnetic Compatibility Regulations 2016

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

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

<p>Date: 2023.07.11 Place of issue: Helsinki</p>	<p>Issued by</p> <p>DocuSigned by:</p> <p>Jarmo Tirkkonen</p> <p>Signature: 1D4642BDD96D44A...</p> <p>Name: Jarmo Tirkkonen</p> <p>Title: Product owner</p>	<p>Date: 2023.07.11 Place of issue: Helsinki</p>	<p>Approved by</p> <p>DocuSigned by:</p> <p>Jari Marjo</p> <p>Signature: A614AA2339E943D...</p> <p>Name: Jari Marjo</p> <p>Title: Head of System Products</p>
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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.

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 61439-1:2011 Low-voltage switchgear and controlgear assemblies - Part 1:
(Enclosure section) General rules

BS EN 61439-2:2011 Low-voltage switchgear and controlgear assemblies - Part 2:
(Enclosure section) Power switchgear and controlgear assemblies

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

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

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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