

**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® 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

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

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

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

Danfoss A/S6430 Nordborg
Denmark
CVR nr.: 20 16 57 15Telephone: +45 7488 2222
Fax: +45 7449 0949**UK 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.

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

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

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

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

(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:

BS EN 61439-1:2011

(Enclosure section)

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

BS EN 61439-2:2011

(Enclosure section)

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

BS 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:

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

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

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

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

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

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