

**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® 20 AC drives****Product category:** Frequency Converter**Type designation(s):** VACON0020-XX-YYYY-Z\*\*\*\*

Character X: 1L, 3L

Character Y: 0001,0002,0003,0004,0005,0006,0007,0008,0009,0011,0012,0016,0017,0023,0025,0031,0038

Character Z: 1,2,4,7

\* 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

**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

**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

Date: <b>2023.07.05</b> Place of issue: Graasten	<b>Issued by</b> DocuSigned by:  <b>Bo Kjaergaard Holst</b> <small>0B12C1DD7DDB4EA...</small> <b>Signature:</b> <b>Name: Bo Kjaergaard Holst</b> <b>Title: Product owner</b>	Date: <b>2023.07.05</b> Place of issue: Shanghai	<b>Approved by</b> DocuSigned by:  <b>Liang Xu</b> <small>720B8A0D7BCA4BE...</small> <b>Signature:</b> <b>Name: Liang Xu</b> <b>Title: Head of BU Product Management Compact &amp; Standard Drives</b>
---	--	---	---

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

**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.

**Other standards considered:**

EN ISO 13849-1:2015 Safety of machinery. Safety-related parts of control systems. Part 1: (STO up to PL e / Cat.4) General principles for design

EN 61508 Parts 1-7:2010 Functional safety of electrical/ electronic/ programmable (STO SIL 3 capability) electronic safety-related systems

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

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

Product Safety Functions: Safe Torque Off (EN 61800-5-2:2007) and Stop category 0 (EN 60204-1:2018 in extracts) available only on three-phase models.

**Danfoss A/S**6430 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® 20 AC drives**

**Product category:** Frequency Converter

**Type designation(s):** VACON0020-XX-YYYY-Z\*\*\*\*

Character X: 1L, 3L

Character Y: 0001,0002,0003,0004,0005,0006,0007,0008,0009,0011,0012,0016,0017,0023,0025,0031,0038

Character Z: 1,2,4,7

\* 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.

#### **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

#### **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

#### **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 requirements - Functional)

– Safe Torque Off, SIL 3 Capability)

<p>Date: <b>2023.07.05</b></p> <p>Place of issue: Graasten</p> <p>Issued by DocuSigned by: <b>Bo Kjærgaard Holst</b></p> <p>Signature: 0B12C1DD7DDB4EA...</p> <p>Name: <b>Bo Kjaergaard Holst</b></p> <p>Title: <b>Product owner</b></p>	<p>Date: <b>2023.07.05</b></p> <p>Place of issue: Shanghai</p> <p>Approved by DocuSigned by: <b>Liang Xu</b></p> <p>Signature: 720B8A0D7BCA4BE...</p> <p>Name: <b>Liang Xu</b></p> <p>Title: <b>Head of BU Product Management Compact &amp; Standard Drives</b></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

**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.

**Other standards considered:**

BS EN ISO 13849-1:2015  
(STO up to PL e / Cat.4)

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

BS EN 61508 Parts 1-7:2010  
(STO SIL 3 capability)

Functional safety of electrical/ electronic/ programmable electronic safety-related systems

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

BS EN 60204-1:2018  
(Stop category 0)

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

Product Safety Functions: Safe Torque Off (BS EN 61800-5-2:2007) and Stop category 0 (BS EN 60204-1:2018 in extracts) available only on three-phase models.