

**Danfoss A/S**

6430 Nordborg  
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**EU DECLARATION OF CONFORMITY****Danfoss A/S****Vacon**

declares under our sole responsibility that the **VACON® 100 AC drives**

**Product category:** Frequency Converter

**Type designation(s):** VACON0100-3L-XXXX-Y-ZZZZ\*\*\*\*

Character X: 0003, 0004, 0005, 0006, 0007, 0008, 0009, 0010, 0011, 0012, 0013, 0016, 0018, 0022, 0023, 0024, 0027, 0031, 0034, 0038, 0041, 0046, 0048, 0052, 0061, 0062, 0072, 0075, 0080, 0087, 0088, 0100, 0105, 0125, 0140, 0144, 0170, 0205, 0208, 0261, 0262, 0310, 0325, 0385, 0386, 0416, 0460, 0461, 0520, 0521, 0590, 0650, 0651, 0730, 0731, 0750, 0820, 0920, 1040, 1180

Character Y: 2, 5, 6, 7

Character Z: Empty, FLOW, HVAC

\* 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

**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

<b>Date:</b> 2023.07.11 <b>Place of issue:</b> Helsinki	<b>Issued by</b> DocuSigned by: <b>Jarmo Tirkkonen</b> <b>Signature:</b> 1D4642BDD96D44A... <b>Name:</b> Jarmo Tirkkonen <b>Title:</b> Product owner	<b>Date:</b> 2023.07.11 <b>Place of issue:</b> Helsinki	<b>Approved by</b> DocuSigned by: <b>Jussi Sihvola</b> <b>Signature:</b> 873CADA0558F43A... <b>Name:</b> Jussi Sihvola <b>Title:</b> Head of Performance Products
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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 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:**

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

Vacon 100 AC Drive equipped with OPTBJ (STO and ATEX option board). The following apply:

EN ISO 13849-1:2015 Safety of machinery. Safety-related parts of control systems. Part 1:  
(STO up to PL e / Cat.3) General principles for design

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

EN 62061:2005+A1:2013+A2:2015 Safety of machinery - Functional safety of safety-related electrical,  
(STO up to SIL 3 / SIL CL 3) electronic and programmable electronic control systems

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# UK DECLARATION OF CONFORMITY

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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 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

### 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

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

(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 60204-1:2018

(Stop Category 0)

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

Vacon 100 AC Drive equipped with OPTBJ (STO and ATEX option board). The following apply:

BS EN ISO 13849-1:2015

(STO up to PL e / Cat.3)

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

BS EN 61508 Parts 1-7:2010

(STO up to SIL 3 / SIL CL 3)

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

BS EN 62061:2005+A1:2013+A2:2015

(STO up to SIL 3 / SIL CL 3)

Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems

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