

**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****Danfoss Drives**

declares under our sole responsibility that the

**Product category:** Frequency Converter**Type designation(s):** FC-202XYZZ\*\*\*\*\*

Character X: N or P

Character YYY: K25, K37, K55, K75, 1K1, 1K5, 2K2, 3K0, 3K7, 4K0, 5K5, 7K5, 11K, 15K, 18K, 22K, 30K, 37K, 45K, 55K, 75K, 90K, 110, 132, 150, 160, 200, 250, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1M0, 1M2, 1M4

Character ZZ: S2, S4, T2, T4, T6, T7

\* may be any number or letter indicating drive options which do not impact this DoC.

The definition of the 39 characters in the type code string can be found in the selection guide at Danfoss.com.

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**

EN61800-5-1:2007+A1:2017+A11:2021 Adjustable speed electrical power drive systems – Part 5-1: Safety requirements – Electrical, thermal and energy.

**EMC Directive 2014/30/EU**

EN61800-3:2004 + 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 IEC63000:2018 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Date: 2021.07.13 Place of issue: Graasten, DK	Issued by DocuSigned by: <b>Signature: Peder Spek</b> <b>Name: Peder Schmidt Spek</b> <b>Title: Product Manager</b>	Date: 2023.07.13 Place of issue: Graasten, DK	Approved by DocuSigned by: <b>Signature: Martin Skov Holm</b> <b>Name: Martin Holm Skov</b> <b>Title: Head of Product Development</b>
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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**

EN61800-9-2:2017

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.

For products including available Safe Torque Off (STO) function according to unit typecode on the nameplate: **X, B or R at character 18 of the typecode**. The following directives apply:

**Machine Directive 2006/42/EC**

EN/IEC 61800-5-2:2007

(Safe Stop function conforms with STO – Safe Torque Off, SIL 2 Capability)

Adjustable speed electrical power drive systems – Part 5-2: Safety requirements – Functional

**Other standards considered:**

EN ISO 13849-1:2015

(Safe Stop function, PL d)

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

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

EN/IEC 62061:2021

(Safe Stop function, SILCL 2)

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

EN/IEC 60204-1:2006 + A1:2009

(Stop Category 0)

Safety of machinery - Electrical equipment of machines - Part 1: General requirements

For products including ATEX option, it requires STO function in the products. The products can have the VLT PTC Thermistor Card MCB112 installed from factory (**2 at character 32 in the typecode**), or it can be separately installed as an additional part.

**2014/34/EU - Equipment for explosive atmospheres (ATEX)**

EN50495: 2010

Safety devices required for safe functioning of equipment with respect to explosion risks.

Notified Body:

PTB Physikalisch-Technische Bundesanstalt, Bundesallee 100, 38116

Braunschweig,

has assessed the conformity of the "ATEX certified motor thermal protection systems" of Danfoss FC VLT

Drives with Safe Torque Off function and has issued the certificate PTB 14 ATEX 3009.

Notified Body no. (PQAN) : 0539



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The meaning of the 39 characters in the type code string can be found in appendix 00729776.

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**Electrical Equipment (Safety) Regulations 2016**

BS EN61800-5-1:2007+A1:2017+A11:2021 Adjustable speed electrical power drive systems – Part 5-1: Safety requirements – Electrical, thermal and energy.

**Electromagnetic Compatibility Regulations 2016**

BS EN61800-3:2004 + A1:2012 Adjustable speed electrical power drive systems – Part 3: EMC 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 IEC63000:2018 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

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For products including available Safe Torque Off (STO) function according to unit typecode on the nameplate: **X, B or R at character 18 of the typecode**. The following regulations apply

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

BS EN/IEC 61800-5-2:2007

(Safe Stop function conforms with STO – Safe Torque Off, SIL 2 Capability)

Adjustable speed electrical power drive systems – Part 5-2: Safety requirements – Functional

**Other standards considered:**

BS EN ISO 13849-1:2015

(Safe Stop function, PL d)

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

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

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

BS EN/IEC 62061:2021

(Safe Stop function, SILCL 2)

Safety of machinery - Electrical equipment of machines - Part 1: General requirements

BS EN/IEC 60204-1:2006 + A1:2009

(Stop Category 0)

For products including ATEX option, it requires STO function in the products. The products can have the VLT PTC Thermistor Card MCB112 installed from factory (**2 at character 32 in the typecode**), or it can be separately installed as an additional part.

**Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016**

BS EN50495: 2010

Safety devices required for safe functioning of equipment with respect to explosion risks.

## Notified Body:

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