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**EU DECLARATION OF CONFORMITY**

**Danfoss A/S**  
**Danfoss Drives A/S**

declares under our sole responsibility that the

**Product category:** Frequency Converter

**Type designation(s):** FC-202XXXXZZ\*\*\*\*\*

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

Covered by this declaration is in conformity with the following directive(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 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.**

EN50581: 2012 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Date: 2019.07.01 Place of issue:  Graasten, DK	Issued by  <b>Signature:</b> <b>Name: Leo B. Lauritsen</b> <b>Title: Head of P400 Group</b>	Date: 2019.07.01 Place of issue:  Graasten, DK	Approved by  <b>Signature:</b> <b>Name: Michael Termansen</b> <b>Title: VP, Design Center Denmark</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

For products including available Safe Torque Off (STO) function according to unit typecode on the nameplate: **T or U at character 18 of the typecode.**

#### 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

(MTTFd=14000 years, DC=90%, Category 3)

EN/IEC 61508-1:2011, EN/IEC 61508-2:2011

(Safe Stop function, SIL 2 (PFH = 1E-10/h, 1E-8/h for specific variants, PFD = 1E-10, 1E-4 for specific variants, SFF>99%, HFT=0))

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

EN/IEC 62061:2005 + A1:2013

(Safe Stop function, SILCL 2)

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

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.

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

Based on EU harmonized standard:

EN 50495: 2010

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

