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EU DECLARATION OF CONFORMITY

Danfoss A/S

Danfoss Drives

declares under our sole responsibility that the product **VLT® Refrigeration Drive series**

Typecodes:

FC-103XYYYZZ**********

Where:
Character X: N or P
Character YYY: 1K1, 1K5, 2K2, 3K0, 3K7, 4K0, 5K5, 7K5, 11K, 15K, 18K, 22K, 30K, 37K, 45K, 55K, 75K, 90K, 110, 132, 160, 200, 250, 315, 400, 450, 500, 560, 630, 710.
Character ZZ: T2, T4, T6, T7
* 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), 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)	Adjustable speed electrical power drive systems – Part 5-1: Safety requirements – Electrical, thermal and energy.
EMC Directive 2014/30/EU	
EN61800-3:2005 + A1:2012	Adjustable speed electrical power drive systems – Part 3: EMC requirements and specific test methods.
RoHS Directive 2011/65/EU	
EN50581: 2012	Technical documentation for the assessment of electrical and lectronic products with respect to the restriction of hazardous substances.

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

Date:	Issued by	Date:	Approved ny
5/1 2017	Signature Name: **Leo Birkkjær Lauritsen** Title: **Head of Connectivity, UI and 3rd Party Products**	5/1-2017	Signature Name: **Michael Termansen** Title: **VP, Design Center DK and DE**

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 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)	Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design
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))	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 62061:2005 + A1:2013 (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

Further information can be found in manufacturers declarations:
EU Declaration of conformity 00730213 A.1, 00730215 A.1 and 00730217 A.1 or newer / Manufacturers declaration 00596226 A.9 or newer.

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