



Danfoss A/S

6430 Nordborg
Denmark

CVR nr.: 20 16 57 15

Telephone: +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-302XYZZ*****

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

Character ZZ: T2, T5, 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), 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

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: 2021.05.25 Place of issue: Graasten, DK	Issued by  Signature: Name: Martin Skov Holm Title: Head of PM - EU	Date: 2021.05.25 Place of issue: Graasten, DK	Approved by  Signature: Name: Michael Quitzau Title: Head of PM&D, Denmark
---	---	---	--

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

(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 + A2:2015

(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)

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.

The assembly covered by the certificate PTB 14 ATEX 3009 have been evaluated internally at Danfoss to be in compliance with 2014/34 EU.

