

## Danfoss A/S

6430 Nordborg Denmark VR 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

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

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+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: 2024.04.11 Issued by Date: 2024.04.11 Approved by Place of issue: DocuSigned by: Place of issue: DocuSigned by: Tim Flintholm Fink Gregers Geilager Graasten, DK Graasten, DK Signature: Signature Name: Tim Flintholm Fink Name: Gregers Gellager Title: Product Manager Title: Head of BU Water Product Management

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

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

# 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 type code on the nameplate: **X, B or R at character 18 of the type code.** The following directives apply:

#### Machine Directive 2006/42/EC

EN61800-5-2:2007 Adjustable speed electrical power drive systems – (Safe Torque Off, SIL 2 Capability) Part 5-2: Safety requirements – Functional

## Other standards applied:

EN ISO 13849-1:2015 Safety of machinery - Safety-related parts of control

systems - Part 1: General principles for design

EN61800-5-2:2017 Adjustable speed electrical power drive

systems - Part 5-2: Safety requirements -

Functional

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 potentially explosive atmospheres (ATEX)

EN50495: 2010 Safety devices required for safe functioning of equipment with

respect to explosion risks.

EN IEC 60079-0:2018 Equipment – General requirements

#### 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

FC 102/202/302 with MCB 112 PTC
Motor protection inside
PTB 14 ATEX 3009

CAUTION: See manual
for additional instruction

II (2) G [Ex eb Gb] [Ex db Gb]
II (2) D [Ex tb Db]

Label above must be
placed visible on the drive

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## Danfoss A/S

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# UK DECLARATION OF CONFORMITY

# Danfoss A/S

**Danfoss Drives** 

declares under our sole responsibility that the

Product category: Frequency Converter

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,

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

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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.

Date: 2024.04.11 Issued by Date: 2024.04.11 Approved by Place of issue: Place of issue: DocuSigned by: DocuSigned by: **Gregers Geilager** Tim Flintholm Fink Graasten, DK Signature Graasten, DK Signature Name: Gregers Geilager Name: Tim Flintholm Pink Title: Product Manager Title: Head of BU Water Product Management

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# Commission Regulation (EU) 2019/1781 under the Ecodesign Directive 2009/125/EC including amendment in Commission Regulation (EU) 2021/341

BS 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 regulations apply

## Supply of Machinery (Safety) Regulations 2008

BS EN/IEC 61800-5-2:2007 Adjustable speed electrical power drive systems – (Safe Torque Off, SIL 2 Capability) Part 5-2: Safety requirements – Functional

#### Other standards considered:

BS EN/IEC 61800-5-2:2017 Adjustable speed electrical power drive

systems - Part 5-2: Safety requirements -

Functional

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.

EN IEC 60079-0:2018 Equipment – General

requirements

# 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

FC 102/202/302 with MCB 112 PTC
Motor protection inside
PTB 14 ATEX 3009

CAUTION: See manual
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(x) II (2) G [Ex eb Gb] [Ex db Gb]

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