ENGINEERING TOMORROW

**Danfoss A/S**
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Denmark
CVR nr.: 20 16 57 15

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# EU DECLARATION OF CONFORMITY

## Danfoss A/S

## Danfoss Drives Oy

declares under our sole responsibility that the

**Product category:** Vacon OPTBJ option board to be used with Vacon 100 family products.
**Type designation(s):** OPT-BJ option board, 70CVB01380D (or newer revision)

**Product Safety Functions(s):** Safe Torque Off (STO) (Specified in EN 61800-5-2:2017) at SIL 3 and Category 3 / PL e safety levels.

**Marking of the equipment:** Ex II (2) GD

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.

- All of the relevant safety component requirements of EC Machinery Directive 2006/42/EC and Directive for explosive atmospheres 2014/34/EU.
- EN ISO 13849-1:2023 Safety of machinery – Safety-related parts of the control systems. Part 1: General Principles for design
- EN ISO 13849-2:2012 Safety of machinery – Safety-related parts of the control systems. Part 2: Validation
- EN60204-1:2018 Safety of machinery – Electrical equipment of machines – Part 1: General requirements
- EN61800-5-2: 2017 Adjustable speed electrical power drive systems – Part 2_ safety requirements – Functional

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|---|---|---|---|
| Date: 2024.05.16<br>**Place: Vaasa** | **Issued by**<br>**Signature:**<br>Pradeep Kumar Krishnamoorthy<br>**Title:** Technical Product Owner | Date: 2024.05.16<br>**Place: Vaasa** | **Approved by**<br>**Signature:**<br>Jari Marjo<br>**Title:** Head of System Products |

Danfoss only vouches for the correctness of the English version of this document. In the event of the document being translated into any other language, the translator concerned must be liable for the correctness of the translation.

- IEC61508-1:2010 Functional safety of electrical/electronic/programable electronic safety-related systems – Parts 1-7

  EN62061:2005 + AC:2010+A1:2013+A2:2015 Safety of machinery – Functional safety of safety-related electrical, electronic and programmable electronic control systems

- EN60079-14:2014, **Part 14**: Electrical installations design, selection and erection

- EN50495:2010 Safety devices required for the safe functioning of equipment with respect to explosion risks

  Notified body that carried out the EC Type examination: TÛV Rheinland Industrie Service Gmbh. Am Grauen Stein, Köln, Germany. European notified body, Identification number NB0035. Certificate No: 01/205/5216.03/20. Person authorised to compile the relevant technical documentation:Danfoss Drives Oy, Runsorintie 7, 65380 Vaasa, Finland.

  VTT Industrial Systems, Electrical Ex apparatus, the Notified Body having identification number 0537, has assessed the conformity of thermal motor protection system and has issued the certificate VTT 06 ATEX 048X.

  It is ensured through internal measures and quality control that the product conforms at all times to the requirements of the current Directive and the relevant standards.

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# UK DECLARATION OF CONFORMITY

## Danfoss A/S

Danfoss Drives Oy

declares under our sole responsibility that the

**Product category:** Vacon OPTBJ option board to be used with Vacon 100 family products.
**Type designation(s):** OPT-BJ option board, 70CVB01380

**Product Safety Functions(s):** Safe Torque Off (STO) (Specified in EN 61800-5-2:2007) at SIL 3 and Category 3 / PL e safety levels.

**Marking of the equipment:** Ex II (2) GD

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.

- EN ISO 13849-1:2023 Safety of machinery – Safety-related parts of the control systems. Part 1: General Principles for design
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