

certificate
no. **IFA 1901155**
dated 2019-05-29



IFA

Institut für Arbeitsschutz der
Deutschen Gesetzlichen Unfallversicherung
Prüf- und Zertifizierungsstelle im DGUV Test

Translation In any case, the German original shall prevail.

European notified body
Identification number: 0121

EC Type-Examination Certificate

Name and address of the holder of the certificate (customer):
Vacon Ltd (Danfoss Group)
Runsorintie 7
65380 Vaasa
FINLAND

Product designation: **Frequency converter with integrated safety function**

Type: Type series NX (see attachment)

Testing based on: GS-IFA-M19 (11.2017)

Test Report: No. 2017 20341 of 2019-05-29

Further details: The frequency converters of the type series NX with control board NXP and OPT-AF board meet the requirements of the test regulations.

The safety sub-function STO fulfills the requirements on SIL 3 according to DIN EN 61800-5-2, as well as category 3 and PL e according to DIN EN ISO 13849-1.

The requirements of DIN EN 81-20: 2014-11 for an adjustable speed electrical power drive systems with safe torque off in SIL 3 and HFT 1 are thus also fulfilled.

The type tested complies with the provisions laid down in the directive 2006/42/EC (**Machinery**).

The present certificate is valid until: **2024-05-28**

Further provisions concerning the validity, the extension of the validity and other conditions are laid down in the Rules of Procedure for Testing and Certification.

Dr. rer. nat. Peter Paszkiewicz
Head of testing and certification body

M. Sc. Christian Werner
Certification officer



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Sankt Augustin, 2019-05-29

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**Attachment to
EC Type-Examination Certificate IFA 1901155**

**Type designations and version status of the safety related hardware in the
frequency converters of the type series NX**

1) Control Board NXP3

VB00761J

2) Option Board OPT-AF

VB00328H

3) Frame Sizes

4 - 8

Dr. Peter Paszkiewicz
Head of testing and certification body

M. Sc. Christian Werner
Certification Officer