

**Danfoss A/S**6430 Nordborg  
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Fax: +45 7449 0949**MANUFACTURER'S DECLARATION****Danfoss A/S****Vacon**

declares under our sole responsibility that the

**Product category:** Drive Units

**Type designation(s):** VACON 100 Series, VACON NX Series

Covered by this declaration is in conformity with the following directive(s), regulations(s), standard(s) or other normative document(s), provided that the product is used in accordance with our instructions.

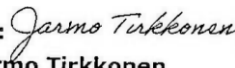

Short circuit protection to PE for variable speed drives. Securing protection against electric shock when using VACON NX Series or VACON 100 Series, according to EN/IEC61800-5-1:2007.

This Manufacturer's Declaration is to be used for the initial verification according to IEC/HD 60364-6:2006 (DIN VDE 0100-600 ;VDE 0100-600) and for follow up testing according to EN 50110-1:2013 (DIN VDE 0105-100 ;VDE 0105-100).

TN-Grid:

Fault protection according to IEC/HD 60364-4-41:2005/AMD1:2017 (DIN VDE 0100-410:2018-10; VDE 0100-410:2018-10) for output circuits of above mentioned equipment is secured under the following conditions:

- The above mentioned equipment is installed according to the safety instructions of the manual.
- The installation meets the requirement of applicable standards of the IEC/HD 60364 (DIN VDE 0100; VDE 0100) series.
- The continuity of all associated PE and equipotential bonding conductors is secured including the bonding and connection points.

Date: 2021.10.28 Place of issue: Vaasa, Finland	Issued by  <b>Signature:</b>  <b>Name: Jarmo Tirkkonen</b> <b>Title: Product Manager</b>	Date: 2021.10.28 Place of issue: Vaasa, Finland	Approved by  <b>Signature:</b>  <b>Name: Jarkko Storvik</b> <b>Title: Senior Director Product Eng. Center</b>
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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

- As a backup, the input fuses of the system must be sized so that, in the of the primary mechanism (IGBT shutoff) failing, the resultant short circuit will blow the fuses (taking the available short circuit current into account)

The above mentioned equipment complies with the protection measure "automatic disconnection of the supply" according to IEC/HD 60364-4-41:2005 (DIN VDE 0100-410:2018-10; VDE 0100-410:2018-10):2007-06 clause 411.3.2.5 if above mentioned requirements are fulfilled.

This is based on following principle:

In case of a short circuit with negligible impedance to a PE conductor or against earth the above mentioned equipment will reduce the output voltage within a time which is required by table 41.1 of IEC/HD 60364-4-41:2005 (DIN VDE 0100-410:2018-10; VDE 0100-410:2018-10):2007-06.

TT-Grid:

- The use of RCD 's or supplementary protective bonding according to IEC60364-4-41:2005 clause 415.2 is required.

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