

**Danfoss A/S**6430 Nordborg  
Denmark  
CVR nr.: 20 16 57 15Telephone: +45 7488 2222  
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):** iC7 Series Liquid-cooled System Modules, iC7 Series Air-cooled System Modules, iC7 Series Air-cooled Enclosed Drives

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.

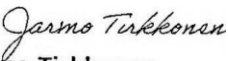

Short circuit protection to PE for variable speed drives. Securing protection against electric shock when using iC7 Series Liquid-cooled System Modules, iC7 Series Air-cooled System Modules, iC7 Series Air-cooled Enclosed Drives, according to EN/IEC61800-5-1:2007/AMD1:2017.

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.

Date: 2021.10.28 Place of issue: Vaasa, Finland	Issued by  Signature:  Name: Jarmo Tirkkonen Title: Product Manager	Date: 2021.10.28 Place of issue: Vaasa, Finland	Approved by  Signature:  Name: Jarkko Storvik Title: Senior Director Product Eng. Center
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- The continuity of all associated PE and equipotential bonding conductors is secured including the bonding and connection points.
- 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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