



CERTIFICATE NUMBER

06-LD192435/2-PDA

DATE

06 May 2009

ABS TECHNICAL OFFICE

London Engineering Department

# CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of  
**DANFOSS DRIVES A/S - GRAASTEN**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate. It will remain valid as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Frequency Converter

MODEL: VLT® Automation Drive FC300 series type FC301/302, VLT® AQUA Drive series FC202 and VLT® HVAC Drive series FC102.

ABS RULE: 2009 Steel Vessel Rules 1-1-4/7.7, 4-8-3/1.7, 4-8-3/1.9, 4-8-3/1.11, 4-8-3/1.17, 4-8-3/7.5, and 4-9-7/Table 9 and Table 10

OTHER STANDARD:

AMERICAN BUREAU OF SHIPPING

Jean-Claude G. Dennemont  
Engineering Type Approval Co-ordinator