

ABS

01-LD201032-PDA
CERTIFICATE NUMBER

5 June 2001
DATE

London ESD
ABS TECHNICAL OFFICE

CERTIFICATE OF Product Design Assessment

This is to Certify **ABB Industry Oy**
(COMPANY)

that a representative of this Bureau did, at the request of the above noted Company, 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 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; and it will remain valid for five years from the date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Frequency Converter

MODEL: ACS 600 Marine Drive W

ABS RULE: 4-8-3 and 4-9-3/7 of the Steel Vessel Rules, 2001

OTHER STANDARD: N/A

AMERICAN BUREAU OF SHIPPING

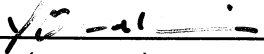

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Certificate No:

Product : Frequency Converter**Model Name:** ACS 600 Marine Drive W**Intended Service:**

Motor Controller; Propulsion, Thrusters, Pumps, Cranes etc. for Ships and Offshore Units

Description:

The product/system comprises the following types of sections:

Supply section: ACW 631, ACW 633

Drive section ACW 610

Braking section: ACW 621

Water cooling section: ACW 695

Control section: ACW 690

Ratings:

Normal voltage 690 V

Maximum output 5140 kVA with 4 x Drive in parallel

Service Restrictions:

N/A

Comments:

N/A

Term of Validity:

This product/model is covered under Product Design Assessment (PDA) Certificate # 01-LD201032-PDA, dated 05/Jun/2001. This PDA Certificate expires June of 2006. It will remain valid for the five years from date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first).

STANDARDS**ABS Rules:**

4-8-3 and 4-9-3/7 of the Steel Vessel Rules, 2001

Government Authority:**International:****National:****Others:**