



CERTIFICATE NUMBER

03-LD409156-PDA

ABS TECHNICAL OFFICE

London Engineering Services

DATE

19 November 2003

CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of

ABB Oy

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 for five years from the date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Low Voltage Motors

MODEL: M3BP/GP/HP 355
M3BP 400

ABS RULE: Section 4-8-3/3 of Steel Vessel Rules, 2003

OTHER STANDARD:

AMERICAN BUREAU OF SHIPPING

Jean-Claude G. Dennemont

Engineering Type Approval Co-ordinator

ABB Oy
Electrical Machines - LV Motors
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Finland
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Product: Low Voltage Motors

Model: M3BP/GP/HP 355
M3BP 400

Intended Service:
Marine Environments

Description:
Cast iron framed, three phase induction motors in frame sizes 355 to 400.

Ratings:
220-690 Volts, 50/60Hz, 2-12 and multiple poles, IP55,
Insulation Class F and Temperature rise Class B

M3HP 355 Increased Safety model : II 2 G T3 (200 °C) EEx e T3, Certificate No.: LCIE 03 ATEX 6022

M3GP 355 Dust Ignition Proof model :
II 2 D T125 °C IP65 (EN 60529) and II 3 D T125 °C IP55 (EN 60034-5)
Certificate No.: LCIE 02 ATEX 6195

M3GP 355, Non-sparking (EN) model : EEx nA II T1-T3
Certificate No.: LCIE 02 ATEX 6195

Service Restrictions:

Each design of motor of 100 KW (135 hp) and over intended for essential services on board ABS Class vessels is to be assessed by testing in accordance with the "type tests" schedule indicated in 4-8-3/Table 3 of the Rules. Each subsequent production unit of an accepted design is to be tested in accordance with the "routine tests" schedule indicated also in 4-8-3/Table 3 of the Rules.

Comments:

1. The motors are rated and certified for ambient temperature between -20°C and +50°C
2. When the weight of motor, excluding the shaft, is over 455 kg (1000 lb), means are to be provided to prevent moisture condensation in the machine when idle as required by 4-8-3/3.11.5 of the Rules.

Term of Validity:

This product/model is covered under Product Design Assessment (PDA) Certificate # 03-LD409156-PDA, dated 19/Nov/2003. This PDA Certificate expires Nov of 2008. It will remain valid for the 5 years from date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first).

STANDARDS

ABS Rules:

Section 4-8-3/3 of Steel Vessel Rules, 2003

