



CERTIFICATE NUMBER

03-LD409156/2-PDA

DATE

10 July 2009

ABS TECHNICAL OFFICE

London Ship Engineering

CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of
ABB OY MOTORS - VAASA

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: Motor, Low Voltage

MODEL: M3BP/GP/HP 355, M3BP/GP/HP400 and M3BP/GP 450

ABS RULE: 2009 Steel Vessel Rules 1-1-4/7.7 and 4-8-3/3

OTHER STANDARD

AMERICAN BUREAU OF SHIPPING

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

ABB OY MOTORS

P.O. BOX 633
VAASA
FIN-65101
Finland
Telephone: +358 10 22 11
Fax: +358 10 22 47372

MA Certificate No. 08-TU1078235-X

Product: Motor, Low Voltage

Model: M3BP/GP/HP 355, M3BP/GP/HP400 and M3BP/GP 450

Intended Service:

Marine Environments

Description:

Cast iron framed, three phase induction motors in frame sizes 355 to 450.

Ratings:

220-690 Volts, 50/60Hz, 2-12 and multiple poles, IP55, IP56 and IP 56

Insulation Class F and Temperature Rise Class B, F or Insulation Class H and Temperature Rise H as an option

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

M3GP 355 Dust Ignition Proof Model:

II 2 D T125 Â°C IP65 (EN 60529) and II 3 D T125 Â°C IP55 (EN 60034-5)

Certificate No.: LCIE 06 ATEX 6089

M3GP 355, Non-sparking (EN) model: EEx nA II T1-T3

Certificate No.: LCIE 06 ATEX 6089

M3GP400 : EEx nA II T3

Certificate No.: LCIE 06 ATEX 6089

M3HP400 : EEx e II T3 or EEx e II T2

Certificate No.: LCIE 04 ATEX 6013

M3GP450 : EEx nA II T3

Certificate No.: LCIE 06 ATEX 6088

**Service Restrictions:**

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

Comments:

1) The motors are rated and certified for ambient temperature between -20 Â°C and +50 Â°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.

Notes / Drawings / Documentation:

M3GP80_400_M3LP400_20LCIE06ATEX6089, M3GP_M3LP450 LCIE06ATEX6088.pdf, M3HP355 LCIE03ATEX6022, M3HP400 LCIE04ATEX6013, 3GZF500735-C - Technical information, Assembly - 3GZF500735-53, 3GZF101745-E, 3GZF500740-28

Term of Validity:

As of 10/Jul/2009

List of Type Approved Equipment

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Term of Validity:

This Design Assessment Certificate number 03-LD409156/2-PDA, dated 10/Jul/2009 will expire on 09/Jul/2014 or at an earlier date should there be alterations to the product's design or changes to the referenced ABS Rules and other specifications, which affect the product. Product use on or after 1 January 2010, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted. The product's acceptability on board ABS-classed vessels or facilities is defined in the service restrictions of this certificate.

STANDARDS

ABS Rules:

2009 Steel Vessel Rules 1-1-4/7.7 and 4-8-3/3

National:

--- NA ---

International:

--- NA ---

Government Authority:

--- NA ---

EUMED:

--- NA ---

Others:

--- NA ---

