



Type Approval Certificate

Germanischer Lloyd

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **40 806 - 01 HH**

Company **ABB Oy
Motors
Strömbergin Puistotie 5 A
65320 Vaasa, FINLAND**

Product Description **Induction motors
Cast iron motors, Ex-protected**

Type **M3HP 160 up to M3HP 400, EEx e II T3 or EEx e II T2
M3GP 160 up to M3GP 400, EEx nA II T1, T2 or T3**

Environmental Category **H**

Technical Data /
Range of Application **Rated voltage : 220 V up to 690 V
Rated power : S1 4 kW up to 400 kW (M3HP)
Rated power : S1 4 kW up to 780 kW (M3GP)
Synchronous speed : 500 1/min up to 3600 1/min
Rated frequency : 50 Hz, 60 Hz
Ambient temperature : 45° C
Duty type : S1, S2 S9 acc. to IEC standard
Insulation class : F
Degree of protection : IP 55
Degree of Ex-protec.: M3HP: EEx e II T3 or EEx e II T2
M3GP: EEx nA II T1, T2 or T3
No. of poles : 2, 4, 6, 8, 10, 12, multiple poles
Spec. model : For marine applications / environments**

Test Standard **EN 60034-1, Sept 2000
GL Regulations for the Performance of Type Tests, part 4, edition 1999**

Documents **Drawings, descriptions and technical data
Catalogues: BA/Marine GB 08-2001 / BU/Ex-motors GB 00-12 and GB03-2004
Test reports KTXC7 dated 17.09.2001 / 18.09.2001 and 19.09.2002**

Remarks **Conditions of the certificates issued by LCIE must be observed**

Valid until **2011-11-14**

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File No. **I.G.03**

Hamburg, 2007-07-19

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Wolfgang Voß

Heinz-Dieter Hesse

This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".



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Certificates of Conformity issued by Laboratoire Central des Industries Electriques LCIE:

Type of motor	LCIE - Certificate - No.	
M3HP 160 ...	LCIE 01 ATEX 6015	EEx e II T3 or EEx e II T2
M3HP 180 ...	LCIE 01 ATEX 6021	EEx e II T3 or EEx e II T2
M3HP 200 ...	LCIE 01 ATEX 6022	EEx e II T3 or EEx e II T2
M3HP 225 ...	LCIE 01 ATEX 6023	EEx e II T3 or EEx e II T2
M3HP 250 ...	LCIE 01 ATEX 6024	EEx e II T3 or EEx e II T2
M3HP 280 ...	LCIE 02 ATEX 6071	EEx e II T3 or EEx e II T2
M3HP 315 ...	LCIE 02 ATEX 6072	EEx e II T3 or EEx e II T2
M3HP 355 ...	LCIE 03 ATEX 6022	EEx e II T3 or EEx e II T2
M3HP 400 ...	LCIE 04 ATEX 6013	EEx e II T3 or EEx e II T2
M3GP 160 ... up to M3GP 250 ...	LCIE 00 ATEX 6032	EEx nA II T1, T2 or T3
M3GP 160 ... up to M3GP 250 ...	LCIE N Ex 00.016	Ex nA II T1, T2 or T3
M3GP 280 ... and M3GP 315 ...	LCIE 02 ATEX 6028	EEx nA II T1, T2 or T3
M3GP 280 ... and M3GP 280 ...	LCIE N Ex 02.001	EEx nA II T1, T2 or T3
M3GP 355 ... M3GP 400 ...	LCIE 02 ATEX 6195 LCIE 03 ATEX 6456	EEx nA II T1, T2 or T3 EEx nA II T1, T2 or T3

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