



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. **20 352 - 04 HH**

Company **ABB Oy**
Motors
Strömbergin Puistotie 5 A
FIN-65320 Vaasa

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

Type **M2JA 80 up to M2JA 132, EEx d IIB/IIC T4, T5, T6**
M2KA 80 up to M2KA 132, EEx de IIB/IIC T4, T5, T6

Environmental Category **H**

Technical Data /
Range of Application **Rated voltage: 190 V up to 690 V**
Rated power: S1 0,15 kW up to 11 kW
Synchronous speed: 750 1/min up to 3600 1/min
Rated frequency: 50 Hz, 60 Hz
Ambient temperature: 45° C
Duty type: S1
Insulation class: F, temperature rise class B
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 T 3
No. of poles: 2, 4, 6, 8, 10, 12, multiple poles
Spec. model: For marine applications / environments

Test Standard **IEC 60034-1, 1999-08**
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
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 **2010-02-01**

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

Hamburg, 2005-03-14

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W. Voß
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H. D. Hespe
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Certificates of Conformity issued by Laboratoire Central des Industries Electriques LCIE:

Type of motor	LCIE - Certificate - No.	
M2JA 80 ... M2KA 80 ...	LCIE 99 ATEX 6019, LCIE 99 ATEX 6019 /01 LCIE 99 ATEX 6019, LCIE 99 ATEX 6019 /01	EEx d IIB/IIC T4, T5, T6 EEx de IIB/IIC T4, T5, T6
M2JA 90 ... M2KA 90 ...	LCIE 99 ATEX 6020, LCIE 99 ATEX 6020 /01 LCIE 99 ATEX 6020, LCIE 99 ATEX 6020 /01	EEx d IIB/IIC T4, T5, T6 EEx de IIB/IIC T4, T5, T6
M2JA 110 ... M2KA 110 ...	LCIE 99 ATEX 6022, LCIE 99 ATEX 6022 /01 LCIE 99 ATEX 6022, LCIE 99 ATEX 6022 /01	EEx d IIB/IIC T4, T5, T6 EEx de IIB/IIC T4, T5, T6
M2JA 112 ... M2KA 112 ...	LCIE 99 ATEX 6022, LCIE 99 ATEX 6022 /01 LCIE 99 ATEX 6022, LCIE 99 ATEX 6022 /01	EEx d IIB/IIC T4, T5, T6 EEx de IIB/IIC T4, T5, T6
M2JA 132 ... M2KA 132 ...	LCIE 99 ATEX 6010, LCIE 99 ATEX 6010 /01 LCIE 99 ATEX 6010, LCIE 99 ATEX 6010 /01	EEx d IIB/IIC T4, T5, T6 EEx de IIB/IIC T4, T5, T6

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