

Type Approval Certificate



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

Certificate No.	40 804 - 01 HH
Company	ABB Oy Motors Strömbergin Puistotie 5 A 65320 Vaasa, FINLAND
Product Description	Induction motors
Type	M3BP 160 up to M3BP 450 Cast iron motors
Environmental Category	H
Technical Data / Range of Application	Rated voltage : 220 V up to 690 V Rated power : S1 4 kW up to 1100 kW 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, IP 56 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 Catalogue: BA/Marine GB 08-2001+ BU/Marine motors GB05-2004 Test reports KTXC7 dated 17.09.2001 / 18.09.2001 and 19.09.2002 and testreports "reference fax 04.08.2004"
Remarks	None
Valid until	2015-03-24
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File No.	I.G.03
Hamburg, 2010-03-25	

Type Approval Symbol



Germanischer Lloyd

Christoph Kutzner

Heinz-Dieter Hespe

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