



# 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.	99 195 - 96 HH		
Company	ABB Oy Motors Strömbergin Puistotie 5 A 65320 Vaasa, FINLAND		
Product Description	Induction motors		
Type	M2FA 250 up to M2FA 400 Open drip proof motors		
Environmental Category	H		
Technical Data / Range of Application	Rated voltage :	220 V up to 690 V	
	Rated power :	S1 14 kW up to 800 kW	
	Synchronous speed :	750 1/min up to 3600 1/min	
	Rated frequency :	50 Hz, 60 Hz	
	Ambient temperature :	45° C	
	Duty type :	S1 S2-30 min, P = appr. 1.2 ... 1.3 x PN S1 S6-40%, P = appr. 1.2 ... 1.4 x PN S1	
	Insulation class :	F	
	Degree of protection :	IP 23 S	
	No. of poles :	2, 4, 6, 8, 2/4, 4/6, 4/8,	
	Spec. model :	For marine applications / environments	

Test Standard	IEC 60034-1, 1996 Germanischer Lloyd Regulations for the Performance of Type Tests, Part 4
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Documents	Drawings, descriptions and technical data Catalogue: BA/M2FA GB 97-02 Test reports dated 30.09.96, 01.10.96, 02.10.96
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Remarks	None
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Valid until	2011-10-15
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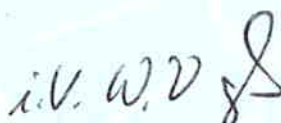
Type Approval Symbol



File No.	I.G.03
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Hamburg, 2007-07-19

## Germanischer Lloyd

  
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