

Type Approval Certificate



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. **47 334 - 03 HH**

Company **Eldin**
Yaroslavl Electric Machine Building Plant
Oktyabrya ave., 74
150040 Yaroslavl, RUSSIAN FEDERATION

Product Description **3phase Induction Motors with Squirrel Cage**
Cast iron frame

Type **RA 112... up to RA 315...**
BNGA 112... up to BNGA 315...

Environmental Category **H**

Technical Data /
Range of Application
Sizes : 112, 132, 160, 180, 200, 225, 250, 280, 315
Rated voltage : 220 V up to 690 V
Rated power : S1, 3,0 kW up to 200 kW
Synchronous speed : 750 1/min up to 3600 1/min
Rated frequency : 50 Hz, 60 Hz
Ambient temperature : 45 °C, acc. to technical catalogue Eldin of 15.8.2002
Insulation class : F, temp. rise acc. to class B
exceptions see technical catalogue dated 15.08.2002
Degree of protection : IP 55, IP 56
No. of poles : 2, 4, 6, 8
Spec. model : For marine applications / environments
according document "Schiffsausführung, Unterschied
von den Standardmotoren" dated 09.07.2003

Test Standard **GL-Regulations for the Performance of Type Tests, part 4, edition 1999**
DIN EN 60034-1(09.2000)

Documents **Drawings H071.525222.002-04/23.05.03, H132.525722.012-00/23.05.03,**
H160.526122.026-14/23.05.03, H250.526522.001-09/23.05.03
Technical catalogue Eldin dated 15.08.2002
Test reports 149-03, 150-03, 151-03, 152-03 dated 01.07.2003

Remarks **None**

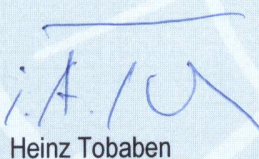
Valid until **2013-07-09**

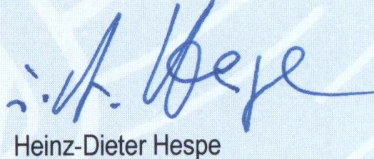
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File No. **I.G.03**

Hamburg, 2008-06-18

Germanischer Lloyd


Heinz Tobaben


Heinz-Dieter Hespe

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