

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. **99 121 - 96 HH**

Company **ABB AB**
LV Motors
Örjansgränd 31
721 70 Västerås, SWEDEN

Product Description **Induction motors**

Type **M3AA 160 up to M3AA 280 (Aluminium frame)**

Environmental Category **H**

Technical Data /
Range of Application

Sizes:	MLA, MLB, MLC, MLD, MLE, SMA, SMB, SMC, SMD
Rated voltage:	200 V up to 690 V
Rated power:	S1 4 kW up to 99 kW S2-30min up to 137 kW S6-25% up to 143 kW S6-40% up to 143 kW S6-60% up to 120 kW
Synchronous speed:	750 1/min up to 3600 1/min
Rated frequency:	50 Hz, 60 Hz
Ambient temperature:	45° C, Thermal class 155 (F)
Duty type:	S1, S2-30 min, S6-20%, S6-40%, S6-60%
Degree of protection:	IP 55, IP 56
No. of poles:	2, 4, 6, 8, 2/4, 4/6, 4/8
Spec. model:	For marine environments

Valid for all variants independent of voltage, power and type of construction

Test Standard **IEC 60034-1 / 2010-02**

Documents **Drawings 3GZV 102 027-A Rev 07-19**
Catalogue GAKK104556 EN05-2011, Testreports of 22.03.94,
ABB ATP AB 40572 STH/22-04-2002, 10774067003 / 2011-10-05
Test instruction (GL)3GZV 100 004-26 / ATMM/AT 96-39

Remarks **None**

Valid until **2016-11-10**

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

Hamburg, 2011-11-11

Type Approval Symbol



Germanischer Lloyd

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