

# TYPE APPROVAL CERTIFICATE

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

Certificate No.	<b>61 999 - 14 HH</b>
Company	<b>Shanghai Top Motor Co., Ltd.</b>  <b>No.303 Kangliu Road Kangqiao Town Pudong, Shanghai, 201315, CHINA</b>
Product Description	<b>Induction Motors Aluminium frame</b>
Type	<b>MS., MS2., frame sizes 56 up to 200 T1A., T2A., T3A.,TAI., TAP., frame sizes 56 up to 200</b>
Environmental Category	<b>H</b>
Technical Data / Range of Application	<b>Place of manufacturing: 1. SHANGHAI TOP MOTOR CO., LTD. No. 303 KANGLIU Rd, KANGQIAO Town 2. SHANGHAI HIMAK ELECTRICAL MA.. CO., LTD. No. 568 YUANXI Rd, NANHUI Industry Area both located in Pudong, Shanghai, P. R. China 1, 2, 3, S, S1, S2, M, M1, M2, L, L1, L2 Sizes: Rated voltage: 220 V up to 690 V Rated power, Duty Type: S1 0,09 kW up to 37 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) Degree of protection: IP 55, IP 56, IP 65 No. Of poles: 2, 4, 6 and 8 Spec. Model: For marine applications / environments</b>
Test Standard	<b>IEC 60034-1 / 2010-02 GL Guidelines for the Performance of Type Approvals, VI-7-6 part 4, ed. 1999</b>
Documents	<b>Drawing: 1TB.010.166 - 172.A-0 dated 2014-03-13 Technical data: TECHTOP MS-serie, page 3 to 5 Test report: T2A 180L-4, Report No. 20140311002 dated 2014.03.11 Catalogue: SHANGHAI TOP MOTOR CO., LTD, TECHTOP Motor 2013</b>
Remarks	<b>This certificate is issued on the basis of GL Guidelines for the Performance of Type Approvals, Chapter 1 - Procedure (VI-7-1), Edition 2007</b>

Valid until **2019-04-01**

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

**Hamburg, 2014-07-31**

Type Approval Symbol

