

DNV GL SE • P.O. Box 11 16 06 • 20416 Hamburg/Germany

Shanghai Top Motor Co., Ltd.

Mr. Huang Wenscheng
No.303 Kangliu Road Kangqiao Town
Pudong, Shanghai, 201315, CHINA

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Your reference	Your letter of	Our reference	Extension	Date
Huang Wenscheng	2014-07-31	14-069675/HEIHES	+49 40 36149-257	2014-07-31

Type Approval Certificates No. 61999 14 HH and 62000 14 HH

Dear Mr. Huang Wenscheng,

enclosed please find the above mentioned updated Type Approval Certificates for your Induction Motors free of charge. The sister certificates we will send directly to Klee drives Denmark.

In case of technical changes of the motors, of the production or testing procedures, please inform us.

We would like to inform you about the publication of the "List of Type Tested Products", which has been made available at the web address www.gl-group.com with immediate effect. You will find a search form under GL Tools / Approval Finder. Your entries are processed and a result page is generated. Wild card symbols (such as *) may not be used, but it is possible to enter parts of the search terms. By specifying the certificate number, you can call up the certificates in PDF format. These are not signed, and therefore not identical to the original.

Invalid certificates are marked with "expired" in the result page.

From 2008 the invalid certificates will remain published on the Internet for 1 year.

The expired certificates can be renewed.

Yours faithfully,

for DNV GL SE


i.A.
Arne Schaarmann


Heinz-Dieter Hesse



GLAPP0019323408

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.	61 999 - 14 HH
Company	Shanghai Top Motor Co., Ltd. No.303 Kangliu Road Kangqiao Town Pudong, Shanghai, 201315, CHINA
Product Description	Induction Motors Aluminium frame
Type	MS., MS2., frame sizes 56 up to 200 T1A., T2A., T3A., TAI., TAP., frame sizes 56 up to 200
Environmental Category	H
Technical Data / Range of Application	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 220 V up to 690 V Sized: Rated voltage: 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
Test Standard	IEC 60034-1 / 2010-02 GL Guidelines for the Performance of Type Approvals, VI-7-6 part 4, ed. 1999
Documents	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
Remarks	This certificate is issued on the basis of GL Guidelines for the Performance of Type Approvals, Chapter 1 - Procedure (VI-7-1), Edition 2007

Valid until **2019-04-01**
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Hamburg, 2014-07-31

Type Approval Symbol



i.A. 
Arne Schaarmann


Heinz-Dieter Hesse

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.	62 000 - 14 HH	
Company	Shanghai Top Motor Co., Ltd.	
	No.303 Kangliu Road Kangqiao Town Pudong, Shanghai, 201315, CHINA	
Product Description	Induction Motors Cast iron frame	
Type	T1C., T2C., T3C., frame sizes 80 up to 355 TCI., TCP., frame sizes 80 up to 355	
Environmental Category	H	
Technical Data / Range of Application	Place of manufacturing:	SHANGHAI HIMAK ELECTRICAL MA.. CO., LTD. No. 568 YUANXI Rd, NANHUI Industry Area Pudong, Shanghai, P. R. China
	Sizes:	1, 2, 3, S, S1, S2, M, M1, M2, L, L1, L2
	Rated voltage:	220 V up to 690 V
	Rated power, Duty Type:	S1 0,75 kW up to 315 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
Test Standard	IEC 60034-1 / 2010-02 GL Guidelines for the Performance of Type Approvals, VI-7-6 part 4, ed. 1999	
Documents	Drawing: 8MHY.010.T035; 8MHY.010.T036 dated 2014-03-12 Technical data: TECHTOP, T.C-serie page 44 - 46 Test report: T3C 315L2-6, Report No. 20140312001 dated 2014.03.11 Catalogue: SHANGHAI TOP MOTOR CO., LTD, TECHTOP Motor 2013	
Remarks	This certificate is issued on the basis of GL Guidelines for the Performance of Type Approvals, Chapter 1 - Procedure (VI-7-1), Edition 2007	

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