

## TECHTOP CANADA INC. CERTIFICATES

**Certificate of Compliance**

Certificate: 2437712      Master Contract: 224693  
 Project: 2528455      Date Issued: August 16, 2012

Issued to: Shanghai Top Motor Co., Ltd.  
 No. 303 Kangliu Road  
 Kangqiao Industrial Area  
 Nantou, Shanghai 201315  
 China  
 Attention: Ying (Amy) Liu

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.

**CSA**  
 Issued by: *Levy Zhao*  
 Signed by: Levy Zhao

**PRODUCTS**  
 CLASS 4211 B1 - MOTORS AND GENERATORS - Certified to US Standards  
 CLASS 4211 01 - MOTORS AND GENERATORS  
 Three-phase squirrel cage induction motors, TXD Series, Enclosure ODP, NEMA Frames: 48 to 215T, 1/4 hp to 10 hp, 460 V, 575 V or 230/460 V, 575 V, 60 Hz, 40 °C max ambient, SF 1.15, continuous duty, Class F insulation.  
 Three-phase squirrel cage induction motors, TXA and TXC Series, Enclosure TEFC, NEMA Frames: 14T to 44T, 1/4 hp to 250 hp, 230/460 V, 575 V, 60 Hz, 40 °C max ambient, SF 1.15, continuous duty, Class F insulation.

Notes:  
 1. Certified only as a component of other certified equipment, where the suitability of the combination is to be determined.  
 2. Final acceptance of these motors when installed is subject to the jurisdiction of the local inspection authority.

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CSA us compliance  
 N° 2437712

**Certificate of Verification**

Certificate: 2369227      Master Contract: 224693  
 Project: 2369227      Date Issued: March 4, 2011

Issued to: Shanghai Top Motor Co., Ltd.  
 No. 303 Kangliu Road  
 Kangqiao Industrial Area  
 Nantou, Shanghai 201315  
 CHINA  
 Attention: Mr. Ying Liu

The Motor listed below are eligible to bear the CSA EEV Mark shown

**CSA**  
 Issued by: *Leo Bian*  
 Signed by: Leo Bian

**PRODUCTS**  
 CLASS 8811 01 - ENERGY EFFICIENCY - MOTORS - Three Phase Induction  
 Energy Efficiency Verification of three-phase squirrel cage induction motors, NEMA Frame 14T to 215T, NEMA design B, 230/460, 575 V, 1 to 15 HP, 60 Hz, SF 1.0, TXD (suffixes may follow) Series, Enclosure ODP, Class F insulation.  
 The following motors comply with the energy requirements of Table 3 (Premium Efficiency) in standard CAN/CSA C390-10. Nominal efficiency values in percent at full load are as follows, motors may have higher efficiency than efficiencies shown in the table below:

Number of Poles	2	4	6	8
HP				
1	0.75	77.0	85.5	82.5
1.5	1.1	84.0	86.5	86.5
2	1.5	83.5	86.5	87.5
3	2.2	85.5	89.5	88.5
5	3.7	86.5	89.5	89.5
7.5	5.5	88.5	91.0	90.2
10	7.5	89.5	91.7	91.7
15	11	90.2	93.0	91.7

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Compliance NEMA Premium  
 N° 236227

**Certificate of Verification**

Certificate: 2236049      Master Contract: 224693  
 Project: 2236049      Date Issued: February 10, 2010

Issued to: Shanghai Top Motor Co., Ltd.  
 No. 303 Kangliu Road, Kangqiao Industrial Area  
 Nantou, Shanghai, 201315  
 China  
 Attention: Mr. Zeng Lianing

The Motor listed below are eligible to bear the CSA EEV Mark shown

**CSA**  
 Issued by: *S. Ahn*  
 Authorized by: *Len Casaleiro*  
 Product Group Manager (PGM)

**PRODUCTS**  
 Class 8811-01 - ENERGY EFFICIENCY - MOTORS - Three Phase Induction

Motor Model/Type	Voltage (V) at 60Hz	Output (HP)	Output (kW)	IEC Frame	Pole (No.)	Efficiency (%)
TAF801-2, TCF801-2	230/460, 575	1	0.75	80	2	75.5
TAF802-4, TCF802-4	230/460, 575	1	0.75	80	4	82.5
TAF902-2, TCF902-2	230/460, 575	1.5	1.1	80	2	82.5
TAF902-4, TCF902-4	230/460, 575	1.5	1.1	80	4	84.0
TAF905-2, TCF905-2	230/460, 575	2	1.5	90	2	84.0
TAF905-4, TCF905-4	230/460, 575	2	1.5	90	4	84.0
TAF908-2, TCF908-2	230/460, 575	3	2.2	90	2	85.5
TAF1101-4, TCF1101-4	230/460, 575	3	2.2	100	4	87.5
TAF112M-2, TCF112M-2	230/460, 575	3	3.7	112	2	87.5
TAF112M-4, TCF112M-4	230/460, 575	3	3.7	112	4	87.5
TAF132S1-2, TCF132S1-2	230/460, 575	7.5	5.5	132	2	88.5
TAF132S1-4, TCF132S1-4	230/460, 575	7.5	5.5	132	4	89.5
TAF132S2-2, TCF132S2-2	230/460, 575	10	7.5	132	2	89.5
TAF132M-4, TCF132M-4	230/460, 575	10	7.5	132	4	89.5
TCF140M1-2	230/460, 575	15	11	160	2	90.2

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Compliance NEMA EPACT  
 N° 2236049

**CERTIFICATE OF COMPLIANCE**

CERTIFICATE No. T120611/STM645

MANUFACTURER:  
 NAME: SHANGHAI TOP MOTOR CO., LTD  
 ADDRESS: NO.303 KANGLIU ROAD KANGQIAO TOWN, PUDONG, SHANGHAI, P.R.CHINA

WE CERTIFY THE FOLLOWING PRODUCT(S):  
 PRODUCT: MS/TA/TC/TF/TX/TD/TOC SERIES (IE1;IE2;IE3;MPS2 HIGH&PREMIUM EFFICIENCY) THREE PHASE ASYNCHRONOUS MOTORS  
 MODEL/S: MS/TA/TC/TF/TX/TD/TOC  
 YEAR: 2012

FIGURE 1:  
 THIS DOCUMENT HAS BEEN ISSUED UPON A REVIEW OF THE DATASHEETS AND OF THE TECHNICAL CONSTRUCTION FILE. THE APPARATUS IS CONSIDERED TO MEET THE REQUIREMENTS OF THE BELOW STANDARDS, THEREFORE TO FULFIL THE REQUIREMENTS OF THE BELOW LISTED DIRECTIVES:

2006/95/EC LOW VOLTAGE DIRECTIVE  
 2004/108/EC ELECTROMAGNETIC COMPATIBILITY DIRECTIVE

SAFETY STANDARDS EN NORMS:  
 EN 60034-1:2010, EN 60335-1:2002/A1:2011, EN 55014-1:2006/A2:2011, EN 55014-2:1997/A2:2008, EN 61000-3-12:2005

THIS DOCUMENT IS ONLY VALID FOR THE EQUIPMENT AND CONFIGURATION DESCRIBED AND IN CONFORMANCE WITH THE TEST DATA DETAILED ABOVE. NEVERTHELESS THE MANUFACTURER IS NOT EXEMPTED TO PERFORM ALL THE NECESSARY ACTIVITIES BEFORE ISSUING THE DECLARATION OF CONFORMITY. IN CASE THE APPLIANCE IS MODIFIED OR THE APPLIANCE WILL BE EQUIPPED WITH ACCESSORIES NOT SPECIFIED IN THE MANUFACTURER ORIGINARY MANUAL, IT IS RECOMMENDED TO GET IN TOUCH WITH ENTE CERTIFICAZIONE MACCHINE FOR EC VALIDITY EXTENSION.

DATE OF ISSUE: JUNE 2012

AREA MANAGER: *Luis Belloni*  
 GENERAL MANAGER: *Antonio Pizzoni*

ENTE CERTIFICAZIONE MACCHINE S.R.L.  
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CE Compliance  
 N° T120611 /STM639-645

**QUALITY MANAGEMENT SYSTEM CERTIFICATE**

Certificate No.: 00113Q21784R3M/3100  
 We hereby certify that Shanghai Top Motor Co., Ltd.  
 No.303, Kangliu Road, Kangqiao Town, Pudong New District, Shanghai, China

by reason of its Quality Management System has been awarded this certificate for compliance with the standard ISO9001:2008 GB/T 19001-2008

The Quality Management System Applies in the following areas:  
 Design, Production and Service of 0.04 to 500kW of Three-phase Asynchronous Motors, Single-phase Asynchronous Motors, 1W to 2kW of Brushless DC Motors (Export)

Certified since: Dec. 29, 2003 Valid from: Feb. 08, 2013 Valid until: Feb. 07, 2016

After a surveillance cycle, the certificate is valid only when used together with an acceptance Notice of Surveillance Audit issued by CQC. Please access www.cqc.com.cn for the meaning of the certificate.

Signed by: *Wang Keqiao*

CHINA QUALITY CERTIFICATION CENTRE  
 No. 9, No. 108, Northeast (the South Fourth Ring Road), Xiliu (the West Road), Beijing 100070, China  
 www.cqc.com.cn

Q 0130680 2009-08

Factory ISO9001:2008  
 GB/T 19001-2008

Also Available: CSAus IE2 & IE3

Performance and quality at your fingertips. High quality motors, on demand, on budget.