



ECHTOP®



1. TYPE EXAMINATION CERTIFICATE

2. Equipment or Protective System Intended for use in Potentially Explosive Atmospheres

3. Type Examination Certificate Number: **TT12ATEX0010**

4. Equipment or Protective System: **MS and T Series Asynchronous Motors**

5. Manufacturer: **Techtop – Shanghai Top Motor Co., Ltd.**

6. Address: **No. 303 Kangliu Road Kangqiao Industrial Area Pudong Shanghai, P.R. China**

7. This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8. Techtopy certifies that this motor series has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive 94/9/EC of 23 March 1994

The examination and test results are recorded in confidential Report no. 201201, dated 05-01-2012.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with except in respect of those requirements referred to at item 18 of the Schedule.

10. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11. This Type Examination Certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12. The marking of the equipment or protective system shall include the following:-



II 3G EX nA IIC T4 Gc
II 3 D Ex tc IIIC T125°C Dc

Techtop – Shanghai Top Motor Co., Ltd.
No. 303 Kangliu Road Kangqiao Industrial Area Pudong Shanghai, P.R. China
Tel: + 86 21-58129168 Fax: +86 21-68193158
<http://www.motor-techtopy.com>

Huang Wensheng
Director

23 May 2012

This certificate may only be reproduced in its entirety and without any change, schedule included.



13. SCHEDULE

14. TYPE EXAMINATION CERTIFICATE NUMBER PAR10ATEX0010

15. DESCRIPTION OF EQUIPMENT OR PROTECTIVE SYSTEM

These motors are Three-Phase Asynchronous Motors with Aluminium (MS) housing or Cast Iron (T1C) housing.

Ratings:
220 to 720 Vac
0,06 to 315 kW

16. REPORT NUMBER

Techtop Report no. 201201, dated 05-01-2012.

17. SPECIAL CONDITIONS FOR SAFE USE

There are no special conditions for safe use.

18. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (EHSR'S)

No additional requirements

19. DRAWINGS

Drawings are all held in Techtop' confidential files.

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This Certificate is the property of Techtop.

Translation

(1) **Certificate of Conformity**

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 94/9/EC**




- (3) **Certificate Number** TÜV 12 ATEX 111822 X
- (4) for the equipment: Electrical Motor types T1A, T1C, MS, T2A, T2C and MS2
- (5) of the manufacturer: **TECHTOP**
- (6) Address: No. 303 Kangliu Rd., Kangqiao Industrial Zone Pudong, Shanghai, P. R. China

Order number: 8000414971

Date of issue: 2013-02-13

- (7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV NORD CERT GmbH, notified body No. 0044 in accordance with Article 9 of the Council Directive of the EC of March 23, 1994 (94/9/EC), certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential report No. 12 214 111822.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN 60079-0:2009** **EN 60079-15:2010** **EN 60079-31:2009**
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This certificate of conformity relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment or protective system must include the following:

 **II 3 G Ex nA IIC T4 Gc**
II 3 D Ex tc IIIC T125 °C Dc

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the notified body



Meyer

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Excerpts or changes shall be allowed by the TÜV NORD CERT GmbH

(13) **SCHEDULE**

(14) **Certificate of Conformity No. TÜV 12 ATEX 111822 X**

(15) Description of equipment

Motors are designed as being non-sparking, Ex nA and Protected by enclosure, Ex tc. Motors are brushless and built into closed housing with termination compartment, all designed in aluminium, alloy or cast iron. T1, T2 and MS motor series are technical identical but with different efficiency.

Type key:

T1A, T2A, MS and MS2: Aluminium Alloy
T1C and T2C: Cast Iron

Technical data:

230/400/690 Vac 50 Hz
276/480/828 Vac 60Hz

Permissible range of ambient temperature:
-20 °C to +40 °C

(16) Test documents are listed in the test report No. 12 214 111822.

(17) Special conditions for safe use

Only suitable certified Cable glands may be used.

Installer must ensure that gasket is fitted correctly into terminal cover and all excess material is removed.

Only metallic cooling wings may be used.

(18) Essential Health and Safety Requirements

no additional ones