

## CERTIFICATE



## TYPE EXAMINATION CERTIFICATE

[1]

[2] Equipment or protective Systems intended for use in potentially explosive atmospheres

Directive 94/9/EC

[3] Type Examination Certificate number:

ICEPI 14 ATEX 012

[4] Equipment: **Three-phase asynchronous motors series TGD**[5] Manufacturer: **NERI MOTORI S.r.l.**[6] Address: **Via A. Fleming, 6/8 - 40017 S. Giovanni in Persiceto (BO) - ITALIA**

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

[8] ICEPI S.p.A., Competent Body, 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 confidential Report nr. RP14A0310.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0: 2012 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 of this certificate.

[11] This Type Examination Certificate relates only to the design and construction of the specified equipment or protective system. Further requirements of this directive apply to the manufacture 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 3GD Ex nA IIC T4/3 Gc Ex tc IIIC T135/200°C Dc**

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

Piacenza, 31.03.2014 – Translation issued on 31.03.2014

Prepared and Verified  
Claudio PonzinibioApproved  
The General Manager  
Dott. Ing. Andrea Guido Esposito



[13]

## Schedule

[14] TYPE EXAMINATION CERTIFICATE nr. ICEPI 14 ATEX 012

[15] Description of the equipment

The Three-phase Asynchronous Motors series TGD are intended for use in hazardous locations (zone 2 according to EN 60079-10-1, and/or zone 22 according to EN 60079-10-2), to drive pumps, fans, compressors and any other kind of suitable machines; they are intended to be supplied directly by network.

Motors series TGD can be fitted with ATEX certified accessories, like electric brake and/or encoder and/or anti-condensation heater.

The motors series TGD are identified by a code as follows:

**TGD:** series of **II 3GD** three-phase asynchronous motors  
 ... centre height (**56, 63, 71, 80, 90, 100, 112, 132, 160, 180, 200**)  
 .. conventional length of motor case (**S** = short, **M** = medium, **L** = long)  
 .. stator and rotor pack (**A, B, C, D**)  
 .. number of poles (**2, 4, 6, 8**)  
 ... power at motor shaft (**0,09 to 30 kW**)  
 ... constructive form (standard **B3, B5, B14**; special on request)  
 .... rated voltage and frequency (**127/220V/50Hz to 400/690V/50Hz**)

### Rated characteristics

Rated voltage:	127/220V $\pm$ 5% - 230/400 V $\pm$ 5% - 400/690 V $\pm$ 5%
Rated power:	0,09 ÷ 30 kW
Rated frequency:	50 Hz
Rated speed:	750 ÷ 3000 RPM
Insulation class:	F or H
Duty type:	S1
Number of poles:	2 - 4 - 6 - 8
Ambient temperature:	-20 ÷ +40 °C

[16] Report nr. RP14A0310

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[13]

**Schedule****[14] TYPE EXAMINATION CERTIFICATE nr. ICEPI 14 ATEX 012****Routine tests**

The Manufacturer shall carry out the routine verifications and tests prescribed at par. 27 of EN 60079-0 standard, and at par. 23.2 of EN 60079-15 standard.

The routine dielectric test shall be carried out on the stator winding at  $(2 U_n + 1000 \text{ V})$  or at 1500 V, whichever is the greater, per 60 s; alternatively, the test may be carried out at a voltage 1,2 times the test voltage, maintained for at least 1 s.

**Descriptive documents**

The Technical File nr. DTC-TGD/ATEX, containing descriptive documents of the Motors series TGD, is attached to the confidential report nr. RP14A0310.

A copy of the above listed documents is kept in ICEPI's file.

**[17] Special conditions for safe use (X)**

None.

**[18] Essential Health and Safety Requirements**

Covered by the conformity to the listed standards.

Certification validity conditions.

Validity conditions of ICEPI's certification are indicated at points 4 & 5 of the contract between Client and ICEPI.

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