



Italia

CERTIFICATE

[1] **EU-TYPE EXAMINATION CERTIFICATE**

[2] **Equipment or Protective System intended for use
in potentially explosive atmospheres
Directive 2014/34/EU**

[3] EU-Type Examination Certificate number:

TÜV IT 14 ATEX 071 X Rev.2

[4] Equipment or Protective System: Three phase and single phase induction electric motor
TN, DN and MN series

[5] Manufacturer: MT Motori Elettrici S.r.l.

[6] Address: Via Bologna 175 (S.S. N. 568)
I-40017 San Giovanni in Persiceto (BO) - ITALIA

[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] TÜV Italia, notified body no. 0948 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. R 14 EX 053 Rev.2

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

EN IEC 60079-0:2018; EN IEC 60079-7: 2015 + A1:2018; EN60079-31:2014

[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 EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

 **II 2G Ex eb IIC T4 ... T3 Gb**
II 2D Ex tb IIIC T100°C ... T135°C Db

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

Issue date: 20th December 2021



PRD N° 081B

Membro degli Accordi di Mutuo Riconoscimento
EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual
Recognition Agreements



TÜV Italia S.r.l.
Notified body N° 0948


Alberto Carelli

Industry Service - Real Estate & Infrastructure
Managing Director

TÜV Italia has been authorized by Italian government to operate as notified body for the certification of equipment or protective system intended for use in potentially explosive atmospheres. This document is not valid without official signature and logo. The internal reference code is 722269325

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PEX-01-M002_r07 del 29/03/2018

[13]

SCHEDULE

[14]

**EU-TYPE EXAMINATION CERTIFICATE
No. TÜV IT 14 ATEX 071 X Rev.2**

Italia

Certificate History

Revision:	Description:	Report rev.:	Issue Date:
-	Fist issue	-	05/09/2014
1	Standards updated	1	16/12/2016
2	Standards updated		20/12/2021

[15] **Description of equipment**

- Three phase and single phase induction squirrel cage electric motor with shaft height
- TN (56 ÷ 200) – three phase standard
- DN (63 ÷ 160) – double polarity
- MN (56 ÷ 100) – single phase standard
- Construction made of die-cast aluminum alloy
- Protection degree IP65
- Insulation class F / H
- 2, 4, 6, 8, 2-4, 4-6, 4-8, 2-6, 2-8, 6-8 poles
- Nominal voltage: up to 600V
- Frequency: 50/60 Hz
- Service: S1
- Use of metal or plastic fan impeller with surface resistance less than 109 Ohms
- Possibility to supply through frequency converter
- In case of power through frequency converter it is mandatory to use thermal protection applied on the end of the windings (n ° 3 for three-phase motors and No. 1 for single-phase motors)
- For single phase motors capacitors must be installed external to the motor and they will be located in safe area or placed in the special explosion-proof enclosure (Ex d)

Rated characteristics

Type	Size	Power [kW]	Poles	Voltage [V]	Frequency [Hz]	Proction degree	Insulation class
TN	56÷200	Max 37	2, 4, 6, 8	Max 600	50/60	IP65	F / H
DN	63÷160	Max 17	2-4, 4-6, 4-8, 2-6, 2-8, 6-8	Max 600	50/60	IP65	F / H
MN	56÷100	Max 2.2	2, 4, 6	Max 240	50/60	IP65	F / H

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PEX-01-M002_r08 del 07/08/2018

[13]

SCHEDULE

[14]

**EU-TYPE EXAMINATION CERTIFICATE
No. TÜV IT 14 ATEX 071 X Rev.2**

Italia

Warning label

WARNING – DON'T OPEN WHEN ENERGIZED

WARNING – DON'T OPEN WHEN EXPLOSIVE ATMOSPHERE IS PRESENT

[16] **Report no.** R 14 EX 053 Rev.2**Routine tests**

Dielectric strength test specified at paragraph 7.1 of EN 60079-7

[17] **Special conditions for safe use**

- In case of delivery of the motor without cable glands the user must use proper ATEX certified devices
- The temperature of the cable must be at least 80°C
- The use of motor with brakes is not possible without the ATEX certification of the whole assembly
- The electric motors can be powered by frequency converter certified as a safety device under the ATEX Directive 2014/34/EU. These inverters must be marked with the following minimum marking II (2) G

These inverters must guarantee an overcurrent protection in compliance with the t_E time or a maximum temperature protection through the acquisition of the signal to be installed on the thermal motor protection.

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

Assured by compliance with the standards set out in the [9].

[19] **Drawings and Documents****Listed documents** (prot. 722117348 + 722269325)

Title:	Description:	Pages:	Rev:	Date:
n.a.	Technical file	27	01	12/11/2021
Annex 1	Technical data (A-B-C-D-E-F)	5	n.a.	n.a.
Annex 2	Motor nomination	1	n.a.	n.a.
Annex 3	Gasket datasheet	1	n.a.	02/03/2012
Annex 4	Metallic datasheet	9	n.a.	n.a.
Annex 5	Cable gland datasheet	1	n.a.	n.a.
Annex 5B	Cable gland certificate	11	n.a.	21/02/2008
Annex 6	Sealing datasheet	2	n.a.	10/06/2008
Annex 7	Metallic fan datasheet	1	00	01/09/2002
Annex 8	Plastic fan datasheet	1	n.a.	29/01/2013
Annex 9	Terminal datasheet	2	n.a.	n.a.
n.a.	Safety instructions	12	01	07/10/2016
n.a.	User manual	12	02	07/12/2021

One copy of all documents is kept in TÜV Italia files.

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