



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX LCIE 15.0035X** Page 1 of 4 [Certificate history:](#)
Issue No: 1 [Issue 0 \(2015-08-28\)](#)

Status: **Current**

Date of Issue: 2024-06-19

Applicant: **ELNOR MOTORS NV**
De Costerstraat 45
BE-3150 Haacht
Belgium

Equipment: **Flameproof Motor - Type : BA(X) 73** ** ** ** ***

Optional accessory:

Type of Protection: **Ex db**

Marking: **Ex db IIB T6...T3 Gb**
IECEX LCIE 15.0035X

(Complete marking is available in Annex of this certificate).

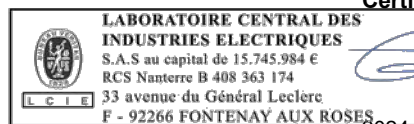
Approved for issue on behalf of the IECEx
Certification Body:

Julien GAUTHIER

Position:

Certification Officer

Signature:
(for printed version)



2024-06-19

Date:
(for printed version)

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2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Laboratoire Central des Industries Electriques (LCIE)
33 Avenue du General Leclerc
FR-92260 Fontenay-aux-Roses
France





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Manufacturer: **ELNOR MOTORS NV**
De Costerstraat 45
BE-3150 Haacht
Belgium

Manufacturing
locations: **ELNOR MOTORS NV**
De Costerstraat 45
BE-3150 Haacht
Belgium

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[FR/LCIE/ExTR23.0017/00](#)

Quality Assessment Report:

[FR/LCI/QAR06.0007/17](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The equipment is a flameproof electrical motor (3 phases or single phase)

Free internal volume is comprised between 500cm³ and 2000cm³

The motor is equipped with thermal protection which ensures the temperature class of the equipment (T6...T3).
The thermal protection are not in the scope of the assessment.

(Refer to attachment for more details)

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Thermal protection determine the temperature class of the equipment:
T3 : For motors on S1 duty service cooled by the process, power cable withstanding to +135°C shall be used.
Or
T3 : For motors equipped with thermal protection suitable to the temperature class (195°C).
T4 down to T6 : For the motors equipped with thermal protection suitable to the temperature class (80°C or 95°C or 130°C).
- The flameproof joints are not intended to be repaired.
- The equipment shall be equipped with suitably certified cable glands and blanking elements with a compatible type of protection for the intended use.
- When the motor is used to drive a fan, the new assembly, fan and motor unit, requires separate certification.
- The property class of the special fasteners used to fasten the end shields onto the stator housing must be at least:

Property class	Part of the special fastener
4.6	Hexagon cap screws
5	Hexagon nut (if used)
8.8	Socket cap screw



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 00:

- Initial issue according to IEC 60079-0 Edition 6 and IEC 60079-1 Edition 6 standards.

Issue 01:

- Normative update according to IEC 60079-0 Edition 7.0 and IEC 60079-1 Edition 7.0 standards.
- Update specific conditions of use and routine tests.

Annex:

[Annex 01 to Certificate IECEx LCIE 15.0035X Issue 01.pdf](#)



Annex 01 to Certificate IECEx LCIE 15.0035X issue 01



MARKING

ELNOR MOTORS N.V.
 Address: ...
 Type : BA(X) 73** ** * * * * *
 Serial number: ...
 Year of construction: ...
 Ex db IIB T6...T3 Gb
 IECEx LCIE 15.0035 X

-40°C ≤ Tamb ≤ +70°C

WARNING – DO NOT OPEN WHILE ENERGIZED
 WARNING – AFTER DE-ENERGIZING, DELAY 5 MINUTES BEFORE OPENING

Use cable compatible with temp 135°C and gland M20.

Temperature class	Description
T6	For motor equipped with thermal protection with threshold temperature of 80°C
T5	For motor equipped with thermal protection with threshold temperature of 95°C
T4	For motor equipped with thermal protection with threshold temperature of 130°C
T3	For motor on S1 duty service cooled by the process, power cable withstanding to +135°C shall be used. or For motor equipped with thermal protection with threshold temperature less than 190°C

RANGE DETAILS

BA(X)	73	**	**	**	**	**	*	
								Relay * = Relay, an On/Off relay is provided in the motor
								Thermal protection AR = Automatic Reset MR = Manual Reset
								Fréquence / Frequency Ø = Stands for 50 Hz duty 6 = Stands for 60 Hz duty 55 = Stands for 50 Hz and 60 Hz duty conjointly
								Polarity Ø = Stands for 4 poles II = Stands for 2 poles VI, VIII = Stands for 6 or 8 poles
								Winding type TR = Three phase motor E = Single phase motor
								Stator stack length ** = Stator stack length (mm)
								Shaft height 73 = Motor with shaft height 63 mm
								Product Type BA = Naturally cooled explosion proof motor (Totally enclosed, non vent) BAX = Motor cooled by the application (Totally enclosed Air over)



Annex 01 to Certificate IECEX LCIE 15.0035X issue 01



RATINGS

Un = 110 up to 690 VAC

P = 15 up to 550 W

f = 50 or 60 Hz

ROUTINE TESTS

According to clause 16.1.1 of IEC 60079-1:2014 standard, each apparatus with welded enclosure shall be submitted to an overpressure test under 19.35 bar during minimum 10 seconds.