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- (1) **EC TYPE EXAMINATION CERTIFICATE**
- (2) **Equipment or protective system intended for use
in potentially explosive atmospheres
Directive 94/9/EC**
- (3) EC type examination certificate number: **ISSeP08ATEX041X**
- (4) Equipment : Asynchronous flameproof motors
Series BA(X) 2xy * * *
- (5) Applicant – Manufacturer:
ELNOR MOTORS N.V.
- (6) Address: De Costerstraat 45
3150 Haacht (Wespelaar)
- (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) ISSeP, notified body n° 492 in accordance with article 9 of the Council Directive 94/9/EC of 23 March 1994, 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.

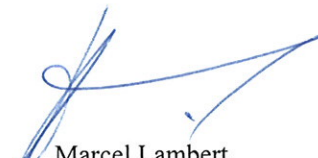
The examination and test results are recorded in confidential report no 07030
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
IEC 60079-0:2007 EN 60079-0:2006 (IEC 60079-0:2004) EN 60079-1:2007 (IEC 60079-1: 2007)
- (10) If the symbol "X" is placed 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 EC 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 this Directive may 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 indications:

 II 2 G

Ex d IIB T6 to T3 (according to EN 60079-0 :2006)
 Ex d IIB T6 to T3 Gb (according to IEC 60079-0 : 2007)

Colfontaine, the 28.08.2008

INSTITUT SCIENTIFIQUE DE SERVICE PUBLIC
Zoning A. Schweitzer - B7340 Colfontaine (Wasmès)
Tél: ++ 32 65 610811 – Fax: ++ 32 65 610808


Marcel Lambert,
Manager of Colfontaine division.

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(13)

SCHEDULE

(14)

EC TYPE EXAMINATION CERTIFICATE No ISSEP08ATEX041X

(15) Description of the equipment or protective system:

Three-phase asynchronous motor :BA(X) 2xyTR

Single-phase asynchronous motor :BA(X) 2xy C or E or CP

The flameproof enclosure of this motor consists of a carcass made of steel and end shields made of cast iron or aluminium alloy.

The fastenings are made by bolts of property class 4.8 and nuts of property class 5

The motor may be equipped with two ends shaft

Temperature classes

The motors on S1 duty service cooled by the process have the temperature class T3. These motors have the temperature classes T6 or T5 or T4 if they are equipped with a thermal protection suitable to the temperature class.

The motors with natural cooling & the motors energised by converters and the motors on S2 to S9 duty service are provided with a thermal protection or a PTC thermistance suitable to the temperature class - to see documents from the manufacturer

Electrical characteristics

Power range : from 0.018 kW to 2.2 kW

Voltages supply : up to 660 VAC - 50 / 60 Hz

Insulation class : F

Eventual prescriptions

Ambient temperature range: -40°C up to +70°C

Routine test

Each apparatus shall be submitted to the routine verifications and tests necessary to ensure that it complies with the specification submitted to the testing station with the prototype.

The motors equipped with cast iron end shields are exempted from the overpressure routine test. However a control of the welding of the carcass shall be made.

The motors equipped with aluminium alloy end shields shall be submitted to routine test under the value of 1120 kPa (11,20 bar).

(16) Report no 07030 dated 28.08.2008 composed in total of 29 pages.

The manual of instructions of the manufacturer of 8.11.2007 (5 pages)

The data sheets related to the parts of the flameproof enclosure dated 11.05.2007 - Rev. 2 of 27.08.2008 - (4 pages)

The data related to the self-adhesive marking plate - document of 10.05.2007 signed on 11.05.2007 (1 page)

The document related to the minimum radial clearance (k) and the maximum radial clearance (m) of the shaft glands, dated 26.11.2007 (1 page)

The document related to the discharge time of the capacitor dated 25.08.2008 (1 page)

The drawings

200001268C Rev.C of 22.08.2008

240000422B Rev B of 28.08.2008

802001325A Rev.A of 24.11.2007

ANNEXE

CERTIFICAT D'EXAMEN CE DE TYPE N° ISSeP08ATEX041X

- (17) Special conditions for safe use: symbol X
- An appropriate connection of the free end of the cable shall be foreseen.
- (18) Essential Health and Safety Requirements: covered by the standards listed under point 9 of the present certificate and by the descriptive documents from the manufacturer.

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VARIATION

EC TYPE EXAMINATION CERTIFICATE N° ISSeP08ATEX041X/1

(14) Equipment:

Three-phase asynchronous motors: BA(X)2xy TR

Single-phase asynchronous motors: BA(X)2xy C or E or CP

(15) Subject to the variation:

- The motor equipped with the aluminium alloy endshields described on the drawing 516492125A is exempted from the overpressure routine test. However the sealing of the welding part of the carcass shall be checked.
- The document from the manufacturer related to the minimum radial clearance (k) and the maximum radial clearance (m) of the shaft glands and the drawings 200001268D & 506490025B & 812001300B have been updated.

Marking: Unchanged

Eventual prescriptions

The ambient temperature range: -40°C up to +70°C

(16) Report n° 09020 of 14.05.2009 (15 pages)

The document from the manufacturer related to the minimum radial clearance (k) and the maximum radial clearance (m) of the shaft glands, dated 14.05.2009 (1 page)

The drawings

200001268D Rev.D of 8.05.2009

506490025B Rev.B of 5.05.2009

516492125A Rev.A of 5.05.2009

812001300B Rev.B of 11.05.2009

(17) Special conditions for safe use: Unchanged

(18) Essential Health and Safety Requirements: Covered by the standards listed at point 9 of the initial certificate

Colfontaine, 19.05.2009

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Lambert Marcel,
Directeur

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VARIATION

EC TYPE EXAMINATION CERTIFICATE N° ISSEP08ATEX041X/2

(14) Equipment : : Flameproof motors

Three phase asynchronous motor: BA(X)2xy TR

Single phase asynchronous motor: BA(X)2xy C or E or CP

(15) Subject of the variation:

Update of the initial certificate with the ATEX standards EN 60079-0, with the last edition (EN 60079-0 : 2012),

Marking:  II 2 G Ex d IIB T6...T3 Gb

Eventual Prescriptions: no change

Routine verifications and tests: (Clause 27 of EN 60079-0)

The manufacturer must do the verifications and individual tests to assure that the produced electrical apparatus conforms with the specification submitted to the test station

(16) Report n° 15018 of 13.02.2015 (13 pages)

(17) Special conditions for safe use: Symbol X

To refer to the data sheets related to the parts of the flameproof enclosure for the values of the flameproof joints

(18) Essential Health and Safety Requirements:

- Covered by the detailed norms on point 9 of the initial certificate.

Colfontaine, 18.02.2015

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M. LAMBERT,
Manager.

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