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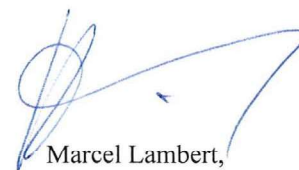
- (1) **EC TYPE EXAMINATION CERTIFICATE**
- (2) **Equipment or protective system intended for use
in potentially explosive atmospheres
Directive 94/9/EC**
- (3) EC type examination certificate number: **ISSeP09ATEX014X**
- (4) Equipment : Asynchronous flameproof motors
Series BA(V/X) 3xy * * *
- (5) 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 07087
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2006 (IEC 60079-0:2004) IEC 60079-0:2007
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 standard EN 60079-0 : 2006)
 Ex d IIB T6 to T3 Gb (according to standard IEC 60079-0 : 2007)
 Colfontaine, the 04.03.2009

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Marcel Lambert,
Manager.

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(13)

SCHEDULE

(14)

EC TYPE EXAMINATION CERTIFICATE No ISSeP09ATEX014X

(15) Description of the equipment or protective system:

Three-phase asynchronous motor :BA(V/X) 3xyTR

Single-phase asynchronous motor :BA(V/X) 3xy 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 M8 bolts of property class 4.6 ,M8 internal socket head screws of property class 8.8 and M8 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 : up to 3 kW

Voltages supply : up to 695 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 an overpressure routine test under the value of 1101 kPa (11.01 bar).

(16) Report no 07087 dated 2.03.2009 composed in total of 27 pages.

The letter from the manufacturer Reference ES:8.030 of 27 October 2008

The manual of instructions of the manufacturer of 8.11.2007 signed on 10.01.2008 (5 pages)

The data sheets related to the parts of the flameproof enclosure dated 4 January 2008 - Rev of 27 February 2009 signed on 27.02.2009 (4 pages)

The data related to the self-adhesive marking plate - document of 10.05.2007 signed on 4.07.2007 (1 page)

The document related to the minimum radial clearance (k) and the maximum radial clearance (m) of the shaft glands, dated 10.01.2008 (1 page)

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

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SCHEDULE

EC TYPE EXAMINATION CERTIFICATE No ISSeP09ATEX014X

- (16) The drawings
240000423A of 10.01.2008 Rev.A of 15.09.2008
507960350E Rev.E of 2.07.2007
507991425E Rev.E of 7.11.2008
806123063 of 10.01.2008
816122880B of 26.11.2001 Rev.B of 24.02.2009
816122881 of 26.11.2001
816122883 of 12.12.2001
816122884A of 14.12.2001 Rev.A of 20.02.2009
835 C of 23.05.1995
- (17) Special conditions for safe use: symbol X
- An appropriate connection of the free end of the cable shall be foreseen when the motor is provided with a supply cable which is permanently connected to it.
- (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.

VARIATION

EC TYPE EXAMINATION CERTIFICATE N° ISSeP09ATEX014X/1

(14) Equipment:

Three-phase asynchronous motors: BA(X)3xy TR

Single-phase asynchronous motors: BA(X)3xy C or E or CP

(15) Subject to the variation:

To allow the mounting of the aluminium alloy cover described on the drawing 517994625 for the version of motor equipped with a terminal box.

The motors equipped with this cover are exempted from the overpressure routine test.

However a control of the welding of the carcass shall be made

Marking: Unchanged

Eventual prescriptions

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

(16) Report n° 09131 of 26.01.2010 (16 pages)

The data sheets related to the construction elements of the flameproof enclosure dated 15.01.2010 (5 pages)

The e-mail from the manufacturer of 21 January 2010

The drawing

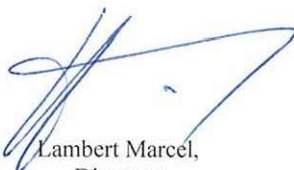
517994625 of 2.11.2009

(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, 29.01.2010

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Lambert Marcel,
Directeur

This document may not be used without the original certificate

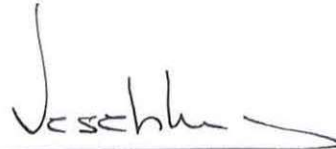
VARIATION

EC TYPE EXAMINATION CERTIFICATE N° ISSeP09ATEX014/2

- (14) Equipment:
Three-phase asynchronous motors: BA(X)3xy TR
Single-phase asynchronous motors: BA(X)3xy C or E or CP
- (15) Subject to the variation:
To allow the mounting of aluminium alloy end shields described on the drawings 517412215D and 517431005B
To allow the mounting of an aluminium alloy carcass (stator housing)
To attest the update of several drawings
The conformity assessment has been made on basis of the standard IEC 60079-0 edition 2011.
- Marking: Unchanged except the indication of the range of temperature classes in the code: T6...T3
- Eventual prescriptions
The ambient temperature range: -40°C up to +70°C
- (16) Report n° 11122 of 11.07.2012 (15 pages)
The data sheets related to the construction elements of the flameproof enclosure dated 29.06.2012 (4 pages)
The e-mail from the manufacturer of 11.07.2012
The drawings
107991400G of 3.06.2010
117412200F of 20.09.2011
117431000C of 6.09.2011
117994600H of 19.03.2010
230000281C of 1.06.2005
507960325D of 21.12.2006
507960345D of 23.09.2010
507991425F of 19.02.2010
517412215D of 7.07.2011
517431005B of 7.09.2011
517992201J of 1.12.2010
517994601H of 20.10.2009
816122883A of 5.12.2011
816122884C of 29.11.2011
816123090 of 18.02.2010
- (17) Special condition for safe use: Unchanged
- (18) Essential Health and Safety Requirements: Covered by the standards listed at point 9 of the initial certificate

Colfontaine, 17.07.2012

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P.J.M. Lambert
Directeur

VARIATION

EC TYPE EXAMINATION CERTIFICATE N° ISSeP09ATEX014X/3

(14) Equipment

- Three-phase asynchronous motors: BA (V/X) 3xy TR.
- Single-phase asynchronous motors: BA (V/X) 3xy C or E or CP.

(15) Subject to the variation

- To allow the mounting of two new endshields described on the drawings 117992200K et 117992900.
- To attest the update of drawings.

Marking: Unchanged.

Eventual prescriptions: Unchanged.

(16) Report N° 12116 completed by 8 documents.

(17) Special condition for safe use: Unchanged.

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

Colfontaine, 03.04.2013.

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Marcel LAMBERT,
Director.

AVENANT

CERTIFICAT D'EXAMEN CE DE TYPE N° ISSeP09ATEX014X/3

(14) Appareil

- Moteurs asynchrones triphasés : BA (V/X) 3xy TR.
- Moteurs asynchrones monophasés : BA (V/X) 3xy C ou E ou CP.

(15) Objet de l'avenant

- Autoriser le montage de deux nouveaux modèles de flasques représentés sur les plans 117992200K et 117992900.
- Attester la mise à jour de plusieurs plans.

Marquage : Inchangé.

Recommandations éventuelles : Inchangées.

(16) Le rapport n° 12116 complété par 8 documents.

(17) Condition spéciale pour une utilisation sûre : Inchangée.

(18) Exigences Essentielles de Santé et de Sécurité : Couvertes par les normes listées au point 9 du certificat Initial.

Colfontaine, le 03.04.2013.

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