

**Siège social
et site de Liège :**
Rue du Chéra, 200
B-4000 Liège
Tél : +32(0)4.229.83.11
Fax : +32(0)4.252.46.65

Site de Colfontaine :
Zoning A. Schweitzer,
rue de la Platinerie
B-7340 Colfontaine
Tél : +32(0)65.61.08.11
Fax : +32(0)65.61.08.08

e-mail :
direction@issep.be
site web :
http://www.issep.be



- (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: **ISSeP09ATEX019X**
- (4) Equipment : Flameproof motors
Series BA(X) 73xy * * *
- (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 08083
- (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 or IIC T6 to T3 (according to standard EN 60079-0 : 2006)
Ex d IIB or IIC T6 to T3 Gb (according to standard IEC 60079-0 : 2007)



Marcel Lambert

Manager of Colfontaine division

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

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(13)

SCHEDULE

(14)

EC TYPE EXAMINATION CERTIFICATE No ISSEP09ATEX019X

(15) Description of the equipment or protective system:

Three-phase asynchronous motor :BA(X) 73xyTR

Single-phase asynchronous motor :BA(X) 73xy C or E or CP

Direct current motor :BA(X) 73xy DC

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

The motor may be equipped with:

- a terminal box compartment. In this case an additional marking will indicate that the insulation of the supply cable provided by the user shall be compatible with a temperature of at least 100°C (for the temperature class T4) and 120°C (for the temperature class T3).
- two ends shaft
- an operating rod for push button mounted on the terminal box compartment suitable to reset the manual thermal protection.

The fastenings are made by through bolts of property class 8.8 and internal socket head screws class 8.8.

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 .

Electrical characteristics

Power range : from 15 W to 550 W

Voltages supply : up to 690 VAC - 50 / 60 Hz
from 6 VDC to 180 VDC

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 are exempted from the overpressure routine test.

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

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SCHEDULE

EC TYPE EXAMINATION CERTIFICATE No ISSeP09ATEX019X

- (16) Report no 08083 dated 8.04.2009 composed in total of 28 pages.
The manual of instructions of the manufacturer of 3.04.2009 (5 pages)
The data sheets related to the parts of the flameproof enclosure dated 3.04.2009 (4 pages)
The data related to the self-adhesive marking plate - document signed on 23.06.2008 (1 page)
The document related to the minimum radial clearance (k) and the maximum radial clearance (m) of the shaft glands, dated 28.05.2008 – signed on 23.06.2008 (1 page)
The document related to the discharge time of the capacitor dated 3.04.2009 (1 page)
- The drawings:
807300211 of 30.05.2008
240000424A Rev A of 7.04.2009
817300185D Rev D of 1.04.2009
817300186D Rev D of 2.04.2009
- (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 cable permanently connected to it
 - 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 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° ISSEP09ATEX019X/1

(14) Equipment : : Flameproof motors

Three phase asynchronous motor: BA(X) 73xyTR

Single phase asynchronous motor: BA(X) 73xy C or E or CP

Direct current motor: BA(X) 73xy DC

(15) Subject of the variation:

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

Marking:  II 2 G Ex d IIB or IIC 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° 15016 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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B-7340 COLFONTAINE (Wasmes)

Tél: ++ 32 65 610811 – Fax: ++ 32 65 610808

e-mail : colfontaine@issep.be


M. LAMBERT,
Manager.

This document may not be used without the original certificate