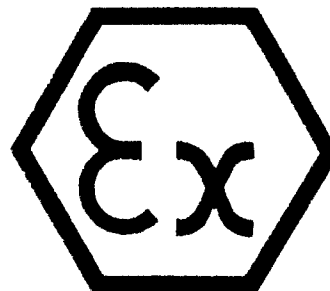




Institut Scientifique de Service Public



- (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: **ISSeP02ATEX029**
- (4) Equipment or protective system:
Motor - 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 n 01186.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014:1997 + A1 et A2: 1999 EN 50018:2000 EN 50281-1-1:1998
- (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 D	EEx d IIB T6 to T3	IP 64
	II 2 G	EEx d IIB T6 to T3	IP 54

Colfontaine, the 18.06.2002

INSTITUT SCIENTIFIQUE DE SERVICE PUBLIC
Rue Grande, 60 - B7340 Colfontaine
Tél: ++ 32 65 610811 - Fax: ++ 32 65 610808


Renaud Alain
Manager of Colfontaine division

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(13)

SCHEDULE

(14)

EC TYPE EXAMINATION CERTIFICATE N° ISSeP02ATEX029

(15) Description of the equipment or protective system:

Three-phase asynchronous motor :BA(X) 2**TR

Single-phase asynchronous motor :BA(X) 2**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.

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 classes T4 and T3).
- two ends shaft
- an operating rod for push button mounted on the terminal box compartment suitable to reset the manual thermal protection.

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 - Ref. : ES:2007 and ES:2018

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

If the motor is IP 64 it shall be provided with a shaft seal

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.

(16) Report n° 01186 of 12.06.2002 composed in total of 25 pages

The letters from the manufacturer Ref, ES: 2007 and ES: 2018 respectively dated of 11.02.2002 (5 pages) and 31.05.2002 (2 pages)

The manual of instructions of the manufacturer signed on 9.02.2002 (4 pages)

The description of the type designations – document signed on 9.02.2002 (1 page)

The technical notes related to the thermal protections (35 pages)

The results of electrical load tests performed on the motor BA240CPII AR-R dated 31.01.2002 signed on 9.02.2002 (2 pages)

The data related to the self-adhesive marking plate - document signed on 9.02.2002 (1 page)

The data sheets related to the material of the marking plate - documents signed on 9.02.2002 (4 pages)

The document Table n° MIS / E-4d related to the insulation system of the motor dated October 1994 - Rev May 2001 signed on 9.02.2002 (1 page)

The calculation sheets related to the expansion of the enclosure with regards to the pressure Rev. of 5.02.2002 signed on 9.02.2002 (2 pages).

The data sheets related to the parts of the flameproof enclosure dated 8.02.2002 - Rev. 1 of 31.05.2002 - signed on 31.05.2002 (3 pages)

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SCHEDULE

EC TYPE EXAMINATION CERTIFICATE N^o ISSeP02ATEX029

- (16) The drawings:
- 200000210 of 19.11.2001 signed on 9.02.2002
 - 200001226B of 6.10.1997 Rev. B of 30.05.2002 signed on 31.05.2002
 - 200001266 of 5.02.2002 signed on 9.02.2002
 - 200001267 of 30.05.2002 signed on 31.05.2002
 - 200001268 of 6.02.2002 signed on 9.02.2002
 - 240000407A of 6.02.2002 Rev. A of 30.05.2002 signed on 31.05.2002
 - 240000410 of 30.05.2002 signed on 31.05.2002
 - 466800100A of 3.07.1997 Rev. A of 28.01.2002 signed on 9.02.2002
 - 506490025 of 6.02.2002 signed on 9.02.2002
 - 506490030 of 6.02.2002 signed on 9.02.2002
 - 506490525 of 30.05.2002 signed on 31.05.2002
 - 812001220A of 1.07.1997 Rev. A of 28.01.2002 signed on 9.02.2002
 - 812001225A of 6.10.1997 Rev. A of 28.01.2002 signed on 9.02.2002
 - 812001265 of 4.02.2002 signed on 9.02.2002
 - 812001272 of 30.05.2002 signed on 31.05.2002
 - 21-250B of 22.04.1994 Rev. B of 19.02.1997 signed on 9.02.2002

- (17) Special conditions for safe use: none
- (18) Essential Health and Safety Requirements: none

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