
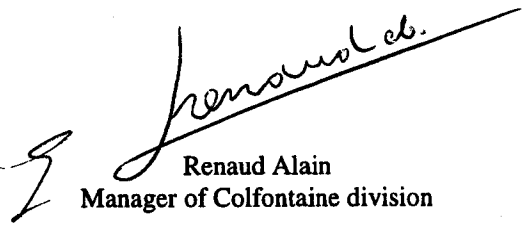


- (1) **EC TYPE EXAMINATION CERTIFICATE**
- (2) **Equipment or protective system intended for use
in potentially explosive atmospheres
Directive 94/9/EC**
- (3) EC type examination certificate number: **ISSeP02ATEX020**
- (4) Equipment or protective system:
Motor - Series BA (V/X) 3xy * *
- (5) Applicant - 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 n 01185.
- (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 65

Colfontaine, the 29.04.2002

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


Renaud Alain
Manager of Colfontaine division

This certificate may only be reproduced in its entirety and without any change, schedule included

(13)

SCHEDULE

(14)

EC TYPE EXAMINATION CERTIFICATE N^o ISSeP02ATEX020

(15)

Description of the equipment or protective system:

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

Single-phase asynchronous motor :BA(V/X)3**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.
- an external fan with fan hood
- 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 provided with an external fan or cooled by the process have the temperature classes T4 or T3. These motors have the temperature classes T6 or T5 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:1044 and ES:2011

Electrical characteristics

Power range : from 0.018 kW to 2.2 kW

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

Insulation class :F

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^o 01185 of 24.04.2002 composed in total of 26 pages

The letters from the manufacturer Ref. ES: 1044 of 21 December 2001 (5 pages) and ES: 2011 of 28 March 2002 (2 pages)

The manual of instructions of the manufacturer signed on 21.12.2001 (4 pages)

The description of the type designations – document signed on 21.12.2001(1 page)

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

The results of electrical load tests performed on the motor BAV370CPIIAR dated 12 and 13 December 2001 signed on 21.12.2001 (2 pages)

The data related to the self-adhesive marking plate - document signed on 28.03.2002 (1 page)

The data sheets related to the material of the marking plate - documents signed on 21.12.2001 (4 pages)

The specifications of the material of the fan dated October 1998 - document signed on 18.04.2002 (1 page)

The document Table n^o MIS / E-4d related to the insulation system of the motor dated October 1994 - Rev May 2001 signed on 21.12.2001 (1 page)

The calculation sheets related to the expansion of the enclosure with regards to the pressure dated 20.12.2001 signed on 21.12.2001 (5 pages).

The data sheets related to the parts of the flameproof enclosure dated 17.12.2001 - Rev. of 22.03.2002 - signed on 28.03.2002 (3 pages)

This certificate may only be reproduced in its entirety and without any change, schedule included

(13)

SCHEDULE

(14)

EC TYPE EXAMINATION CERTIFICATE N^R ISSeP02ATEX0***

(16)

The drawings:

107991400D of 2.12.1996 Rev. D of 15.11.2000 signed on 21.12.2001
200000210 of 19.11.01 signed on 21.12.2001
230000281A of 1.03.01 Rev. A of 8.11.2001 signed on 21.12.2001
230000285A of 17.12.2001 Rev. A of 18.04.2002 signed on 18.04.2002
240000406A of 14.12.2001 Rev. A of 22.03.2002 signed on 28.03.2002
507960325B of 29.11.2001 Rev. B of 29.11.2001 signed on 28.03.2002
507960350D of 29.11.2001 Rev. D of 22.03.2002 signed on 28.03.2002
507991425B of 19.12.1996 Rev. B of 8.11.2001 signed on 21.12.2001
507992201 of 19.12.2001 signed on 21.12.2001
612002742B of 29.11.2001 Rev. B of 22.03.2002 signed on 28.03.2002
816122455B of 17.12.2001 Rev. B of 17.12.2001 signed on 28.03.2002
816122880A of 26.11.2001 Rev. A of 22.03.2002 signed on 28.03.2002
816122881 of 26.11.2001 signed on 21.12.2001
816122882A of 17.12.2001 Rev. A of 22.03.2002 signed on 28.03.2002
816122883 of 12.12.2001 signed on 21.12.2001
816122884 of 14.12.2001 signed on 21.12.2001
21-250B of 22.04.1994 Rev B of 19.02.1997 signed on 28.03.2002
835 C of 23.05.95

(17) Special conditions for safe use: none

(18) Essential Health and Safety Requirements: none

VARIATION

EC TYPE EXAMINATION CERTIFICATE N° ISSeP02ATEX020/1

(14) Equipment :

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

(15) Subject to the variation:

The end shields are made of aluminium alloy instead of cast iron.
One or two M20 x 1.5 threaded holes are foreseen in the non-drive end shield for the mounting of cable entries.
The flameproof properties of the enclosure remain unchanged.

Marking : Unchanged

(16) Report n° 04068 of 26.10.2004 (12 pages)

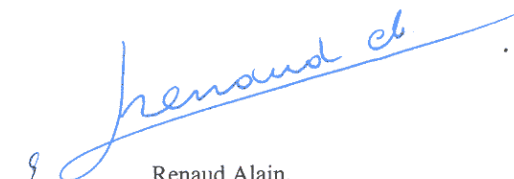
The drawings
816122960A Rev.A of 24.08.2004 signed on 25.08.2004
816122962A Rev.A of 24.08.2004 signed on 25.08.2004
One data sheet related to the parts of the flameproof enclosure dated 25.08.2004 – signed on 25.08.2004

(17) Special conditions for safe use : none

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

Colfontaine, 26.10.2004.

INSTITUT SCIENTIFIQUE DE SERVICE PUBLIC
Zoning A. Schweitzer - B 7340 Colfontaine (Wasmes)
Tél: ++ 32 65 610811 – Fax: ++ 32 65 610808


Renaud Alain,
Directeur du site de Colfontaine

This document may not be used without the original certificate