

(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: **ISSeP03ATEX053**

(4) Equipment or protective system:
Motor - Series EX90 * * *

(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 02052.

(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

(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

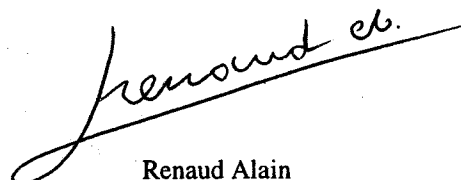
(11) This EC TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of this Directive may apply to the manufacturing process and supply of this equipment or protective 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
EEx d IIB T4

Colfontaine, the 20.06.2003

INSTITUT SCIENTIFIQUE DE SERVICE PUBLIC
Zoning A. Schweitzer - B7340 Colfontaine (Wasmes)
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^R ISSeP03ATEX053**

(15) **Description of the equipment or protective system:**

Single phase or three-phase asynchronous motor : EX90 AS

Direct current motors : EX90 ST or STD or AV

The flameproof enclosure of this motor is made of aluminium alloy.

This motor is equipped with a gear box and a terminal box compartment. 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.

Electrical characteristics

Power range : up to 370 W

Voltages supply : from 24 to 660 VAC - 50 / 60 Hz
from 12 to 180 V DC

Insulation class :F

Duty service : S3 20% - 20'

Eventual prescriptions

Ambient temperature range: -30°C up to +50°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.

(16) Report n° 02052 dated 19.06.2003 composed in total of 19 pages

The manual of instructions of the manufacturer signed on 9.08.2002 (4 pages)

The letters of the manufacturer Ref.:ES:2024 of 9.08.2002 and ES:3027 of 28.05.2003

The technical notes related to the thermal protections (19 pages)

The document Table no MIS/E-4d related to the insulation system of the motor dated October 1994 - Rev. May 2001 signed on 9.08.2002

The data related to the self-adhesive marking plate -document signed on 09.08.2002 (5 pages)

The data sheets related to the parts of the flameproof enclosure dated 9.08.2002 signed on 9.08.2002 (4 pages).

The data sheets related to the mechanical and electrical tests performed on the motor EX90 ST signed on 9.08.2002 (2 pages)

The drawings:

118 of 28.05.2003 signed on 28.05.2003

113240300 of 4.07.2002 signed on 9.08.2002

113240310 of 5.07.2002 signed on 9.08.2002

113240320 of 1.08.2002 signed on 9.08.2002

113240330 of 5.07.2002 signed on 9.08.2002

224515151 of 6.08.2002 signed on 9.08.2002

224515161 of 6.08.2002 signed on 9.08.2002

234309251A of 7.05.1987 Rev. A of 28.05.2003 signed on 28.05.2003

234309261A of 30.07.2002 Rev. A of 28.05.2003 signed on 28.05.2003

240000411A of 7.08.2002 Rev. A of 27.05.2003 signed on 28.05.2003

514240301 of 4.07.2002 signed on 9.08.2002

514240311 of 31.07.2002 signed on 9.08.2002

514240321 of 1.08.2002 signed on 9.08.2002

514240331 of 5.07.2002 signed on 9.08.2002

819001000 of 10.07.2002 signed on 9.08.2002

819001001 of 30.07.2002 signed on 9.08.2002

(17) **Special conditions for safe use: none**

(18) **Essential Health and Safety Requirements: covered by the standards as listed at point 9 and the descriptive documents from the manufacturer.**

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