

EU-TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

- EU-Type Examination Certificate Number:** ITS19ATEX105095X **Issue 00**
- Product:** Three-phase and single-phase asynchronous motors, type BA2xy...
- Manufacturer:** Elnor Motors NV
- Address:** De Costerstraat 45, 3150 Wespelaar, Belgium
- This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- Intertek Testing and Certification Limited, Notified Body number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2018 and EN 60079-1:2014 except in respect of those requirements referred to within item 14 of the Schedule.
- If the sign "X" is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
- This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- The marking of the product shall include the following:



II 2 G Ex db IIB T3...T4 Gb
-40°C ≤ Ta ≤ +70°C

Certification Officer: _____ **Date:** 03 October 2019
P Moss

SCHEDULE:

EU-Type Examination Certificate Number: ITS19ATEX105095X Issue 00

Description of Equipment or Protective System

Equipment is either a three-phase or single-phase asynchronous motor.

The motor stator housing is manufactured from cold rolled Steel, and the end shields are manufactured from Aluminium. Overall dimensions of the motor are approximately Ø160 x 240mm.

End shields are held in place via the use of 4x M6 x 220 or M8 x 220 hex head bolts.

General characteristics for single-phase asynchronous motor:

U_N - 220-240V DC; I_N - 3A; P_N - 0.370kW; F - 50/60Hz; W - 2850rpm; $\cos\phi$ - 0.8

General characteristics for three-phase asynchronous motors:

U_N - 400V DC; I_N - 1.1A; P_N - 0.370kW; F - 50/60Hz; W - 2850rpm; $\cos\phi$ - 0.8; Relay 230V AV.

Internal and external earth points are provided.

12. Report Number

Intertek Report: 103620506CHE-001 Dated: 30 September 2019.

13. Special Conditions of Certification

(a). Special Conditions of Use

- Temperature classification if motor is not equipped with thermal protection (see table below)

| Thermal protection location | Switch off thermal protection in °C | Temperature at the entry point cable in °C | Temperature Class | Delay Y minutes before opening |
|-----------------------------|-------------------------------------|--|-------------------|--------------------------------|
| WINDING | 135 | 75 | T4 | 5 |
| | | | T3 | no |
| | 150 | 84 | T4 | 10 |
| | | | T3 | no |
| ENDSHIELD / BEARING | 120 | 96 | T4 | 10 |
| | | | T3 | no |
| | 135 | 90 | T4 | 20 |
| | | | T3 | no |

- In case of motors supplied by converter, the motor must be equipped with thermal protection listed in technical file and located in winding and bearing
- All safety devices shall operate independently of any measurement or control devices required for operation. Resetting the safety devices shall only be manual.
- No modification must be made to the flamepaths of the enclosure without prior consultation with the manufacturer

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(b). Conditions of Manufacture

- A routine overpressure test in accordance with EN 60079-1:2014, Clause 16.1, shall be carried out on all motors at a pressure of 15.26bar for a period of between 10 and 60 seconds.

Results shall be recorded.

14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 103620506CHE-001 Dated: 30 September 2019.

15. Drawings and Documents

| Title: | Drawing No.: | Rev. Level: | Date: |
|---|--------------|-------------|------------|
| BA2xx With variants (Sheet 1) | 802001389B | B | 190819 |
| BA2xx With variants (Sheet 2) | 802001389B | B | 190819 |
| Self Adhesive Name Plate T200 | 240000430A | A | 100719 |
| Flamepaths, Gaps BA(x)2** | 802031389A | A | 250619 |
| Fasteners, BA(x)2** | 802041389A | A | 070719 |
| Rotor AS BA2xx | 236001389 | - | 23/04/2018 |
| Motor Housing BA2xx | 466001389 | - | 3/05/2018 |
| Endshield 64900 B14 – F90 – 4xM6 – M20 (506490002) | 506001386 | - | 28/11/2018 |
| Endshield Drive end – 516661602 | 516001388 | - | 24/05/2018 |
| Endshield Machined Model 64915 | 516011387 | - | 13/11/2018 |
| Endshield Ref 516495701 | 516011388 | - | 24/05/2018 |
| Endshield 64955 ALU KLR 35 Machined 516495520 | 516011389 | - | 23/04/2018 |
| Endshield Machined Model 64915 | 516021387 | - | 13/11/2018 |
| Endshield 64955 met een M20 | 516021389 | - | 23/04/2018 |