

CERTIFICATE

(1) EU-Type Examination

(2) Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU

(3) EU-Type Examination Certificate Number: **DEKRA 18ATEX0022 X** Issue Number: **0**

(4) Product: **Multi-turn Actuator, Type MA*-****

(5) Manufacturer: **NOAH ACTUATION CO., LTD**

(6) Address: **47, Gilju-ro 425beon-gil, Bucheon-si, Gyeonggi-do
Republic of Korea**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this 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 to the Directive.

The examination and test results are recorded in confidential test report number 510021200, Issue 0.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2012 + A11

EN 60079-1 : 2014

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) 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.

(12) The marking of the product shall include the following:



II 2 G Ex db IIC T4 Gb

Date of certification: 28 March 2018

DEKRA Certification B.V.

L.G. van Schie
Certification Manager



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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 18ATEX0022 X**

Issue No. **0**

(15) **Description**

Multi-turn Actuator, Type MA*-*^{*}, includes a main body with non electrical parts and three compartments with electrical parts; the motor compartment, terminal compartment and control compartment.

The scope of this certificate covers the compartments with electrical parts.

These three separate compartments are in type of protection flameproof enclosures “d”.

The process temperature of the pipelines to which the actuator is connected shall be below 60 °C or the installation shall be so arranged that the temperature of the stem at the bottom of the actuator is below 60 °C.

Ambient temperature range -20 °C to +55 °C.

Electrical data

Input voltage: 3 Ph, 220/230/240/380/400/415/440/460/480/500/525/550/575/600 Vac, 50/60 Hz

Duty cycle: S2 15 min (IEC 60034-1)

Battery: Only battery type of LS 17500 manufactured by Saft Batteries shall be used.

Nomenclature

MA * - * *

 (a) (b) (c)

Code	Subject	Value
(a)	Maximum torque	001 (69 Nm), 002 (103 Nm), 003 (138 Nm), 004 (181 Nm), 005 (363 Nm), 006 (415 Nm), 007 (559 Nm), 008 (686 Nm) or 009 (833 Nm)
(b)	Rated voltage (3 phase, 50/60 Hz)	O (220 Vac), P (230 Vac), Q (240 Vac), G (380 Vac), H (400 Vac), R (415 Vac), I (440 Vac), J (460 Vac), K (480 Vac), S (500 Vac), T (525 Vac), U (550 Vac), V (575 Vac) or W (600 Vac)
(c)	Software option	A (on/off), E (CPT), F (PCU), L (Modbus), M (Profibus), Q (Bluetooth), R (Foundation fieldbus) or S (Hart)

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. 510021200, Issue 0.

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 18ATEX0022 X**

Issue No. **0**

(17) **Specific conditions of use**

- The flameproof joints are not intended to be repaired.
- The property class of special fasteners for motor cover and terminal cover is at least A2-50.
- The property class of special fasteners for control cover and terminal bung is at least 12.9.
- Electrostatic charging shall be avoided.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. 510021200, Issue 0.

(20) **Certificate history**

Issue 0 - project no. 510021200 initial certificate