

(1) EC-TYPE EXAMINATION CERTIFICATE

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC

(3) EC-Type Examination Certificate Number: **KEMA 10ATEX0009 X** Issue Number: **1**

(4) Equipment: **Electric Actuator, Series ITQ**

(5) Manufacturer: **i-Tork Controls Ltd.**

(6) Address: **74-6, Chunui-Dong, Wonmi-Gu, Bucheon Si, Kyeonggi-Do, Korea**

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

(8) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment 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 test report number 213129000.

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

EN 60079-0 : 2006

EN 60079-1 : 2007

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment 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 according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

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



II 2 G Ex d IIB T4

This certificate is issued on April 29, 2010 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

KEMA Quality B.V.

C.G. van Es
Certification Manager



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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 10ATEX0009 X** Issue No. 1

(15) **Description**

The ITQ-Series of electric actuators are designed for quarter turn operating applications and include a worm gear assembly, manual handle and override, position indicator and an internal heater system.

The model code designation of the actuator is as follows:

ITQ-a3bcd

| | |
|-----------------------|--|
| a = model name | 0100, 0160, 0240, 0350, 0500, 0800, 1100, 2000, 3000, 6000, 9000 |
| b = input voltage | 1 = 110 Vac, 1 ph. 2 = 220 Vac, 1 ph. 4 = 380 Vac, 3 ph. 5 = 440 Vac, 3 ph. 7 = 24 Vdc |
| c = software | 0 = none 1 = PK 2 = CT 3 = RPC |
| d = additional switch | 0 = none 1 = 2ALS 2 = 2ATS |

Ambient temperature range -20 °C to +60 °C.

Electrical data

| | |
|--------------|--|
| Voltage: | 110/220 Vac, 1-ph, 50/60 Hz 380/440 Vac, 3-ph, 50/60 Hz 24 Vdc |
| Duty cycle: | S2-30 min, S4-50 % (ITQ-0100 - ITQ-0350) S2-20 min, S4-30 % (ITQ-0500) S2-20 min, S4-25 % (ITQ-0800 - ITQ-9000) |
| Motor power: | 15 W (ITQ 0100) 40 W (ITQ 0160 - ITQ 0350) 90 W (ITQ 0500) 180 W (ITQ 0800 - ITQ 1100) 750 W (ITQ 2000 - ITQ 9000) |

Installation instructions

The installation instructions provided by the manufacturer shall be followed in detail to assure safe operation of the equipment.

(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 10ATEX0009 X** Issue No. 1

(16) **Test Report**

KEMA No. 213129000.

(17) **Special conditions for safe use**

- For details on the flamepaths the manufacturer shall be contacted.
- Fasteners with property class A2-50 are used.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 213129000.