

# CERTIFICATE

## (1) EC-Type Examination

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

(3) EC-Type Examination Certificate Number: **KEMA 06ATEX2085 X** Issue Number: **2**

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

(5) Manufacturer: **HKC Co., Ltd**

(6) Address: **5Ra-503, Sihwa Industrial Complex, 674-3, Sunggok-dong, Ansan-shi, Kyounggi-do, Korea 425-836**

(7) This equipment 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 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 NL/DEK/ExTR11.0115/\*\*.

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

**EN 60079-0 : 2009**

**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 Gb**

This certificate is issued on 7 December 2011 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.

DEKRA Certification B.V.

M. Erdhuizen  
Certification Manager

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 06ATEX2085 X**

Issue No. 2

(15) **Description**

The HQ-Series 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:

HQ-a3b0cde0

a = model/size                      008, 010, 015, 020, 030, 050, 060, 080, 120, 200 or 300

b = input voltage:                      1 = 110 Vac, 1 ph.  
     2 = 220 Vac, 1 ph.  
     3 = 220 Vac, 3 ph.  
     4 = 380 Vac, 3 ph.  
     5 = 440 Vac, 3 ph.  
     6 = 460 Vac, 3 ph.  
     7 = 24 Vac  
     8 = 24 Vdc

c = software                              0 = without PIU/CPT/PCU  
     1 = with PIU (Potentiometer Unit)  
     2 = with CPT (Current Position Transmitter)  
     3 = with PCU (Proportional Control Unit)

d = additional switches                0 = without 2ALS/2ATS  
     1 = with 2ALS (Additional Limit Switches)  
     2 = with 2ATS (Additional Torque Switches)

e = signal lamp /                        0 = without LPA  
     90° mounting plate                1 = with SLU (Signal Lamp Unit)  
     2 = with LPA (Lever Plate Actuator)  
     3 = with SLU and LPA

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

**Electrical data**

Voltage:                                  110/220 Vac, 1-ph, 50/60 Hz  
     110/220/380/440/460 Vac, 3-ph, 50/60 Hz  
     24 Vdc  
     24 Vac

Max. power:                              107 W (HQ-008/010)  
     216 W (HQ-015/020)  
     187 W (HQ-030)  
     410 W (HQ-050/060)  
     483 W (HQ-080/120/200/300)

Duty cycle:                              S4, 70%, continuous operation  
     S2, 100%, max. 30 minutes operation

(13) **SCHEDULE**

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Issue No. **2**

**Installation instructions**

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

(16) **Test Report**

No. NL/DEK/ExTR11.0115/\*\*.

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

- For details on the flamepaths the manufacturer shall be contacted.
- Cover fasteners with a yield stress of at least 210 MPa are used.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. NL/DEK/ExTR11.0115/\*\*.