



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:

IECEx KGS 10.0025X

issue No.:1

Status:

Current

Certificate history:

Issue No. 1 (2011-3-21)

Issue No. 0 (2010-5-6)

Date of Issue:

2011-03-21

Page 1 of 4

Applicant:

**HIGEN Motor Co., Ltd**

74-5, Seongsan-dong Changwon-si, Gyeongsangnam-do Korea  
Korea, Republic of

Electrical Apparatus:

**AC Servo Motor**

Optional accessory:

Type of Protection:

**Ex d**

Marking:

**Ex d IIB T4 IP65**

Approved for issue on behalf of the IECEx  
Certification Body:

Hae-Duk, Jung

Position:

General Manager

Signature:  
(for printed version)

Date:

2011 . 3 . 21 .

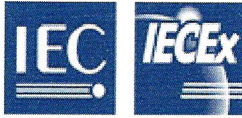
1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

**Korea Gas Safety Corporation**  
332-1 Daeya Dong,  
Shihung-Shi,  
Gyeonggi-Do  
KOREA 429-712  
Korea, Republic of



Korea Gas Safety Corporation



# IECEx Certificate of Conformity

Certificate No.: IECEx KGS 10.0025X

Date of Issue: 2011-03-21

Issue No.: 1

Page 2 of 4

Manufacturer: **HIGEN Motor Co., Ltd**  
74-5, Seongsan-dong Changwon-si, Gyeongsangnam-do Korea  
**Korea, Republic of**

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

**STANDARDS:**

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2007-10** Explosive atmospheres - Part 0: Equipment - General requirements

Edition: 5

**IEC 60079-1 : 2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

Edition: 6

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

**TEST & ASSESSMENT REPORTS:**

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

KR/KGS/ExTR10.0025/01

Quality Assessment Report:

KR/KGS/QAR08.0002/02



# IECEx Certificate of Conformity

Certificate No.: IECEx KGS 10.0025X

Date of Issue: 2011-03-21

Issue No.: 1

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The explosion-proof motor with flange size 70 servo motor is used as a paint coating robot, the rated speed 3000rpm, rated torque 0.64Nm, 1.9A rated current when the rated output is 200W.

#### ENCLOSURE

The motor is comprised cast Al end brackets and frame. Lead wire withdrawal of the bracket is blocked epoxy adhesive.

#### TERMINAL COVER

The enclosure consists of a cast Al with a cover secured bolts. The joint to the encoder cover, terminal neck and removable covers, are machined to provide an ingress protection of IP65.

#### ENCODER COVER

For the period attributable to protect precision encoder cover and terminal cover from the encoder connector and lead wire cables can walk into a small hole so that the connection is..

#### PTC

The motor is provided with PTC, as is the terminal cover. The type of protector used is thermistors (PTC : Positive Temperature Coefficient). Thermistors are semi-conductor heat detectors which sharply change their resistance upon reading a pre-set temperature and fitted into the winding.

### CONDITIONS OF CERTIFICATION: YES as shown below:

Use only certified cable gland.

Use only specific driver (Model Number : FDA7002EX)



# IECEX Certificate of Conformity

Certificate No.: IECEx KGS 10.0025X

Date of Issue: 2011-03-21

Issue No.: 1

Page 4 of 4

## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

1. Name of Applicants
2. Conditions of certification(add the information about using the specific driver)
3. Information in Marking and Equipment ( IP grade ; IP55 -> IP65)