



Member of the FM Global Group

FM Approvals
1151 Boston Providence Turnpike
P.O. Box 9102 Norwood, MA 02062 USA
T: 781 762 4300 F: 781-762-9375 www.fmapprovals.com

CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

TM-ab-cde. Electric Actuator.

XP / I / 1 / CD / T4; I / 1 / AEx d IIB / T4; Type 6 / IP68

a = Model Number: 01 or 04.

b = Model Type: none or i.

c = Control Type: DA, DAC, DAE, DB, DBC, DE, DPR, DMO, DFF or DHA.

d = Motor (Kw): When a = 01: 0.2, 0.4, 0.75 or 1.5.

When a = 04: 0.4, 0.75, 1.5, 2.2 or 3.7.

e = Voltage: 220Vac (3ph), 380Vac (3ph), 400Vac (3ph), 415Vac (3ph), 440Vac (3ph), 460Vac (3ph)
or 480Vac (3ph).

Equipment Ratings:

As Explosionproof for Class I, Division 1, Groups C and D T4; and Flameproof for Class I, Zone 1, AEx d IIB T4; for hazardous (classified) locations, indoors and outdoors, Type 6 / IP68, with an ambient temperature range of -20°C to +40°C.

FM Approved for:

Enertork Ltd
Yeosu-Gun, Gyeonggi-Do, Republic of Korea



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This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

| | |
|-------------------|------|
| Class 3600 | 2011 |
| Class 3615 | 2006 |
| Class 3810 | 2005 |
| ANSI/ NEMA 250 | 2003 |
| ANSI/ IEC 60529 | 2004 |
| ANSI/ ISA 60079-0 | 2009 |
| ANSI/ ISA 60079-1 | 2009 |

Original Project ID: 3040558

Approval Granted: February 18, 2013

Subsequent Revision Reports / Date Approval Amended

| Report Number | Date | Report Number | Date |
|---------------|------|---------------|------|
|---------------|------|---------------|------|

FM Approvals LLC

J.E. Marquedant
Group Manager, Electrical

18 February 2013

Date



Member of the FM Global Group

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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

TM-ab-cde. Electric Actuator.

XP / I / 1 / CD / T4; I / 1 / AEx d IIB / T4; Type 6 / IP68

a = Model Number: 1, 3 or 07.

b = Model Type: none or i.

c = Control Type: DA, DAC, DAE, DB, DBC, DE, DPR, DMO, DFF or DHA.

d = Motor (Kw): When a = 1: 2.2, 3.7, 5.5 or 11.0.

When a = 3: 5.5, 7.5, 11.0, 15.0 or 18.5.

When a = 07: 1.5, 2.2, 3.7, 5.5 or 7.5.

e = Voltage: 220Vac (3ph), 380Vac (3ph), 400Vac (3ph), 415Vac (3ph), 440Vac (3ph), 460Vac (3ph) or 480Vac (3ph).

Equipment Ratings:

As Explosionproof for Class I, Division 1, Groups C and D; Flameproof for Class I, Zone 1, AEx d IIB T4; for hazardous (classified) locations, indoors and outdoors, Type 6, IP68, for use in the United States

FM Approved for:

Enertork Ltd
Yeoju-Gun, Gyeonggi-Do, Republic of Korea



Member of the FM Global Group

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

| | |
|-------------------|------|
| Class 3600 | 2011 |
| Class 3615 | 2006 |
| Class 3810 | 2005 |
| ANSI/ NEMA 250 | 2003 |
| ANSI/ IEC 60529 | 2004 |
| ANSI/ ISA 60079-0 | 2009 |
| ANSI/ ISA 60079-1 | 2009 |

Original Project ID: 3043314

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|---------------|------|---------------|------|

FM Approvals LLC

J.E. Marquedant
Group Manager, Electrical

15 April 2013

Date