



Confirmation of Product Type Approval

Company Name: A-T CONTROLS

Address: 9955 INTERNATIONAL BOULEVARD OH 45246 United States

Product: Actuator, Electric for Valves and Dampers

Model(s): KE-440, KE-880, KE-1700, KE-3500

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	23-2343935-PDA	31-JAN-2023	30-JAN-2028
Manufacturing Assessment (MA)	22-5418453	18-AUG-2022	20-AUG-2027
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

Marine & Offshore Application

Description

On-Off or Modulating service electrical operated actuator fitted with manual override, anti-condensation heater and thermostat for valves & dampers and other quarter-turn devices;

Option Configurations: Convex lens visual position indicator.

Ratings

Voltage:110/220VAC, Single Phase, 50/60Hz, 12VDC(440&880 models only)/24VDC ;

Operating Temperature: -4 °F to +140 °F (-20 °C to +60°C);

Enclosure IP rating: IP67;

Actuator torque output;

(i). KE-440, 440 In-Lbs., 50 NM;

(ii). KE-880, 880 In-Lbs., 100NM;

(iii). KE-1700, 1700 In-Lbs., 200NM;

(iv). KE-3500, 3500 In-Lbs., 400NM.

Service Restrictions

1. Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined;
2. Suitable for Non-hazardous area installation;
3. The actuators are not to be used for valves on tanks containing flammable liquids, fire mains and fire dampers in high fire risk area such as machinery spaces unless fitted with approved insulation to ensure effective closure facility in the event of fire (ABS Marine Vessel Rules 4-6-4/13.5.3 b), MOU Rules 4-2-5/3.9.2.).

Comments

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product;

- i) Setting and calibration of limit switches are to be in accordance with the manufactures' recommendation;
- ii) Cables for power supply and signals are to be suitable for intended service and environmental conditions (ABS Marine Vessels Rules 4-8-3/9, 4-8-4/21, 27.9, MOU Rules 4-3-3/5 & 4-3-4/7);
- iii) Where actuators are remotely controlled and used in propulsion and safety related systems, the complete control system and its associated electrical system for each application are to be submitted to ABS technical office for suitability review (ABS Marine Vessels Rules 4-9-5/13.13).

Notes, Drawings and Documentation

Document No. 30441, KE Series BOM, Revision: 0, Pages: 1

Document No. KE Dimensional Dwg, KE Dimensional Dwg, Revision: 0, Pages: N/A

Document No. No. DoC, KE Series Actuators Declaration of Conformity, Revision: n/a, Pages: 1

Document No. BST18011046630001Y-1SR-2 , IP 67 Test Report, Revision: 0, Pages: 10, Dated: 20 January 2018

Document No. 0P221213.ZTASU33, ECM Certificate, Issuance dated: 13 December 2022, Expiry date: 12 December 2027,

Document No. WE XE XC KE Actuator Literature, WE XE XC KE Actuator Literature, Revision: 0, Pages: N/A

Document No. IOM08069, Installation & Maintenance Manual, Revision: 23 July 2020, Pages: 7

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 30/Jan/2028 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules

The Rules for Conditions of Classification, Part 1, 2023 Marine Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers following:

2023 Marine Vessels Rules: 4-8-3/1.3, 4-8-3/1.11.1 ;

The Rules for Conditions of Classification - Offshore Units and Structures, 2023 Mobile Offshore Units Rules: 1-1-4/9.7, 1-1-A2, 1-1-A3 which covers the following:

2023 Rules for Building and Classing Mobile Offshore Units:4-3-1/15.

International Standards

N/A

EU-MED Standards

N/A

National Standards

EN61000-3-2:2019/A1:2021, EN60947-1:2021.

Government Standards

N/A

Other Standards

N/A



A handwritten signature in blue ink, appearing to read "Joseph W. ...".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 31-Jan-2023 3:53

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.