



# Certificate of Compliance

**Certificate:** 70062469

**Master Contract:** 175131

**Project:** 70195611

**Date Issued:** 2018-10-26

**Issued to:** Elster GmbH  
Postfach 2809  
Osnabrueck, 49018  
GERMANY  
Attention: Norbert Saalmann

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*



**Issued by:** Anuj Amin  
Anuj Amin

## **PRODUCTS**

CLASS - C322102 - VALVES-General purpose Actuators

CLASS - C322182 - VALVES-Actuators - Certified to US Standards

Version IC40...:

Electrical motor-operated valve actuator model IC 40; Rated: 100-230Vac, 50/60Hz, 12W, 24VA or 10.5W, 21VA at 230Vac, 10.5W, 18VA at 120Vac; Rated Torque: 3 Nm; Operating Speed: 4.5 – 76.5 Sec/90° rotation; Continuous Duty-cycle; Ambient Temperature: -20°C to +60°C.

## **Nomenclature:**

|      |                                     |
|------|-------------------------------------|
| IC40 | Actuator                            |
| S    | Emergency closing function *        |
| A    | Mains voltage: 100-230 VAC, 50/60Hz |
| 2    | Torque: 2.5Nm                       |
| 3    | 3.0Nm                               |
| A    | 4-20mA analogue input *             |
| D    | Digital inputs                      |
| R10  | Feedback Potentiometer *            |

\* Option



**Certificate:** 70062469

**Master Contract:** 175131

**Project:** 70195611

**Date Issued:** 2018-10-26

**Version IC50...T..:**

Electrical motor-operated valve actuator model IC 50...T, three point step versions; Rated: 120Vac, 50/60Hz, Power Consumption: 13 VA at 50Hz, 16VA at 60Hz; Rated Torque: 3 – 30 Nm; Operating Speed: 3.7 – 60 Sec/90° rotation; Continuous Duty Cycle; Ambient Temperature: -20°C to +40°C.

**Version IC50...E..:**

Electrical motor-operated valve actuator model IC 50...E, continuous signal versions; Rated: 120Vac, 50/60Hz, Power Consumption: Terminals 1, 2 and 5: 16VA at 60 Hz, 13VA at 50Hz, Terminal 3: 19VA at 60 Hz, 16VA at 50Hz, In total not exceeding: 19VA at 60 Hz, 16VA at 50 Hz; Rated Torque: 3-30 Nm; Operating Speed: 3.7 – 60 Sec/90° rotation; Continuous Duty-Cycle; Ambient Temperature: -20°C to +40°C.

**Nomenclature:**

|             |   |
|-------------|---|
| <b>IC50</b> | <b>Actuator</b>   |
| -03         | Running time (sec/90°): 3.7 Sec                               |
| -07         | 7.5 Sec   |
| -15         | 15 Sec  |
| -30         | 30 Sec  |
| -60         | 60 Sec  |
| <b>Q</b>    | <b>Mains voltage: 120 VAC, 50/60Hz</b>                        |
| 3           | Torque: 3.0Nm   |
| 7           | 7.0Nm   |
| 15          | 15.0Nm  |
| 20          | 20.0Nm  |
| 30          | 30.0Nm  |
| <b>T</b>    | <b>Three-point step control / two point step control</b>      |
| <b>E</b>    | <b>Continuous Control</b>                                     |
| <b>R10</b>  | <b>Feedback potentiometer (only three-point step control)</b> |

**Version IC20...T..:**

Electrical motor-operated valve actuator model IC 20...T, three or two point step versions; Rated: 120Vac, 50/60Hz, Power Consumption: max 4.9 VA at 50Hz, max 5.8 VA at 60Hz; Rated Torque: 2.5 – 3 Nm; Operating Speed: 7.5 – 60 Sec/90° rotation; Continuous Duty Cycle; Ambient Temperature: -20°C to +60°C.

**Version IC20...E..:**

Electrical motor-operated valve actuator model IC 20...E, continuous signal versions; Rated: 120Vac, 50/60Hz, Power Consumption: Terminals 1, 2 and 5: 4.9 VA at 50 Hz, 5.8 VA at 60Hz, Terminal 3: 8.4 VA at 50 Hz, 9.5 VA at 60Hz, In total not exceeding: 8.4 VA at 50 Hz, 9.5 VA at 60 Hz; Rated Torque: 2.5 - 3 Nm; Operating Speed: 7.5 – 60 Sec/90° rotation; Continuous Duty-Cycle; Ambient Temperature: -20°C to +60°C.

**Nomenclature:**

|             |                                 |
|-------------|---------------------------------|
| <b>IC20</b> | <b>Actuator</b>                 |
| -07         | Running time (sec/90°): 7.5 Sec |
| -15         | 15 Sec                          |
| -30         | 30 Sec                          |



**Certificate:** 70062469  
**Project:** 70195611

**Master Contract:** 175131  
**Date Issued:** 2018-10-26

|     |  |
|-----|--|
| -60 | 60 Sec   |
| Q   | Mains voltage: 120 VAC, 50/60Hz                        |
| 2   | Torque: 2.5 Nm   |
| 3   | 3.0 Nm   |
| T   | Three-point step control / two point step control      |
| E   | Continuous Control                                     |
| R10 | Feedback potentiometer (only three-point step control) |

Notes:

1. The basic type designations are completed with suffixes indicating the torque range and may be followed by letters and numbers indicating mains shutoff function, analog input option, potentiometer and other electromechanical function.
2. The customer has self-declared NEMA 4 Enclosure rating which is not object of this certification.
3. Valve actuators are evaluated as general purpose valve actuator with 6,000 operations, intended for 90<sup>0</sup> turn operations. Optional safety closing function is not evaluated as a safety valve.
4. Actuators are provided with auxiliary rating of 2A, 230Vac.
5. The IC50 and IC20 series actuators are investigated for an ambient temperature of -20°C to 40°C. Customer may self-declare temperature range -20°C to 60°C, which is not object of this certification.
6. Actuators are not evaluated for functional safety. Where an application requires software control for device operation, functional safety will be required to be evaluated within the end application.

**APPLICABLE REQUIREMENTS**

CSA C22.2 No. 139-13: Electrically Operated Valves  
ANSI/UL 429 (7<sup>th</sup> Edition): Electrically Operated Valves

**MARKINGS**

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Following marking detail shall be provided on product.

1. CSA Mark with or without the adjacent indicator “C” and/or “US” indicators, as shown on the Certificate of Conformity
2. Manufacturer’s name: "Elster GmbH.", or CSA Master Contract Number “175131”, adjacent to the CSA Mark in lieu of manufacturer’s name.



**Certificate:** 70062469

**Project:** 70195611

**Master Contract:** 175131

**Date Issued:** 2018-10-26

---

3. Model number: As specified in the PRODUCTS section, above.
4. Electrical ratings: As specified in the PRODUCTS section, above.
5. Manufacturing date in MMY format, or serial number, traceable to year and month of manufacture.
6. Ambient temperature: As specified in the PRODUCTS section, above
7. Auxiliary contact rating: As specified in the PRODUCTS section, above.
8. Maximum rated torque: As specified in the PRODUCTS section, above.
9. Operating Speed: As specified in the PRODUCTS section, above.
10. A suitable wiring diagram to indicate the connections (appears on sale literature only).
11. Grounding symbol adjacent to the grounding means.
12. All Valve actuator shall be marked with the following or equivalent:
  - (a). “USE SUPPLY WIRES SUITABLE FOR AT LEAST 90°C” and “ EMPLOYER DES FILS D’ALIMENTATION QUI CONVIENNENT POUR AU MOINS 90°C”



## *Supplement to Certificate of Compliance*

**Certificate:** 70062469

**Master Contract:** 175131

*The products listed, including the latest revision described below,  
are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

---

| <b>Project</b> | <b>Date</b> | <b>Description</b>   |
|----------------|-------------|--|
| 70195611       | 2018-10-26  | Update report 70062469 to include new model of general-purpose valve actuator, Model IC 20.  |
| 70185410       | 2018-06-27  | Update report to 70062469 to evaluate alternate component and new construction of PCB-1 for IC 40 series model.                              |
| 70127316       | 2017-05-31  | Update report 70062469 to include alternate power supply for the IC 40 model series.   |
| 70093453       | 2016-12-07  | Update report to include new model of general purpose valve actuators assembly, Model IC 50. Also, Evaluate alternate relay for IC 40 Model. |
| 70062469       | 2016-03-11  | Original Certification of General purpose valve actuators assembly, Model IC40.  |