

SA 05 - SA 05 S - SA 05 X ACTUATORS

ASSEMBLING AND MAINTAINANCE INSTRUCTIONS



SA05 - SA05S



SA05X

1. DESCRIPTION

- 1.1 Electric actuator for motorising 90° turn valves.
- 1.2 The full features of this device are given in sheet FT23010.
- 1.3 Before operating this device, read the present instructions carefully.

2. GUARANTEE

- 2.1 Before any contact with our services, identify the type of actuator.
- 2.2 SECTORIEL actuators have a 12-month guarantee from the delivery date. Parts recognized as defective by an assessment at our facility, will be replaced at our expense. Complaints generated by incorrect use or a modification of the actuator cannot be taken into account.

3. VERIFICATIONS AND ACCEPTANCE

- 3.1 At acceptance, check that:
 - the packaging is in good condition;
 - the actuator is as ordered;
 - the equipment is not damaged.
- 3.2 It is recommended to install the actuator as soon as accepted and not to leave it unused. If the equipment has to be stored, it has to be in a dry place protected from weather.

Information given as an indication only, and subject to possible modifications

| | | | |
|---|---|-------|--------------|
|  | SECTORIEL S.A. 45 rue du Ruisseau 38290 SAINT QUENTIN-FALLAVIER - FRANCE Telephone: +33 4 74 94 90 70 - Fax: +33 4 74 94 13 95 www.sectoriel.com / Email: sectoriel@sectoriel.fr | Pages | 1/3 |
| | | Ref. | IME23010 ENG |
| | | Rev. | 12 |
| | | Date | 10/2023 |

SA 05 - SA 05 S - SA 05 X ACTUATORS

ASSEMBLING AND MAINTAINANCE INSTRUCTIONS

4. PRECAUTIONS FOR OPERATION

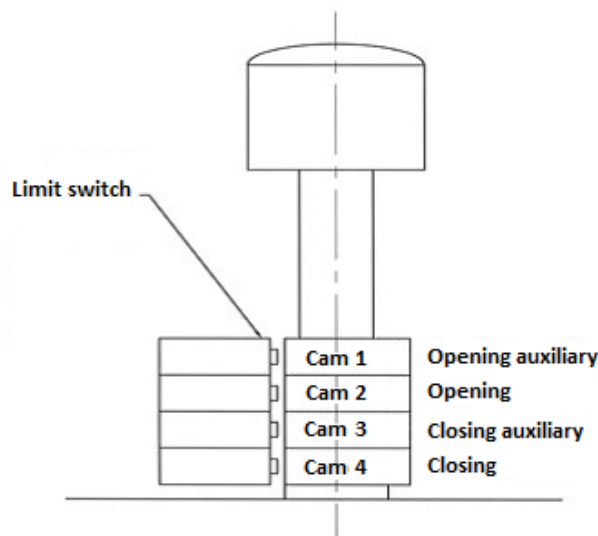
- 4.1 Before installing, make sure that the installation is completely depressurized and brought to ambient temperature.
- 4.2 In a zone classified as explosive, install only model SA05X.
- 4.3 The protection class of the actuator is IP67 for indoors or outdoors installation. Do not install this actuator in a marine environment and do not immerse it.
- 4.4 The actuator must not be electrically powered during the installation and maintenance of the valve on the pipework, and of the actuator on the valve
- 4.5 Before proceeding to the electrical connection, check the supply voltage of the actuator.
- 4.6 Do not mount the actuator in series or in parallel with other electrical motors. If need be, use relays.
- 4.7 Do not mount the actuator on valves with higher torque than the nominal torque of the actuator.
- 4.8 The anti-condensation heater must be wired, indoors and outdoors, on special applications.

5. INSTALLATION AND OPERATION

- 5.1 Install the actuator on the valve (already done for units assembled in our workshops)
- 5.2 Perform the electrical wiring as shown in the diagram below.
- 5.3 Adjust the switch stops (already done for units assembled in our workshops).
- 5.4 View the valve's movement using the indicator light on the cover.
- 5.5 SA05 and A05X actuator: to actuate the handle override, first disconnect the electrical power supply, then turn the hollow hex-head screw with an Allen key.
No handle override for SA05S.
- 5.6 SA05X actuator: the electrical connection must be carried out using an ATEX approved cable gland (CG) CG M20x1.5 which corresponds to the same operation zones as SA05X.
SA05X has 2 connections M20x1.5. If using only one CG ATEX cable gland, the 2nd connection must be provided with an ATEX-approved plug which corresponds to the same operation zones as SA05X.
CG and ATEX plug are not provided as standard. Option when ordering.

6. SWITCH SETTING

- 6.1 The cams are attached to the drive stem.
- 6.2 Clockwise rotation = valve closing. The micro-switch stops the actuator.
- 6.3 Anti-clockwise rotation = valve opening. The micro-switch stops the actuator.



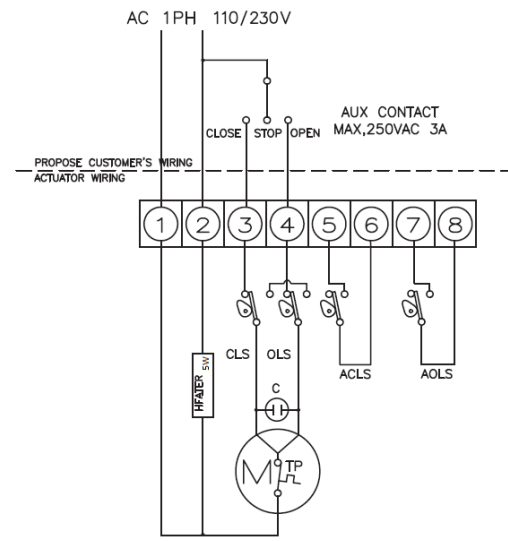
Information given as an indication only, and subject to possible modifications

| | | | |
|---|---|-------|--------------|
|  | SECTORIEL S.A. 45 rue du Ruisseau 38290 SAINT QUENTIN-FALLAVIER - FRANCE Telephone: +33 4 74 94 90 70 - Fax: +33 4 74 94 13 95 www.sectoriel.com / Email: sectoriel@sectoriel.fr | Pages | 2/3 |
| | | Ref. | IME23010 ENG |
| | | Rev. | 12 |
| | | Date | 10/2023 |

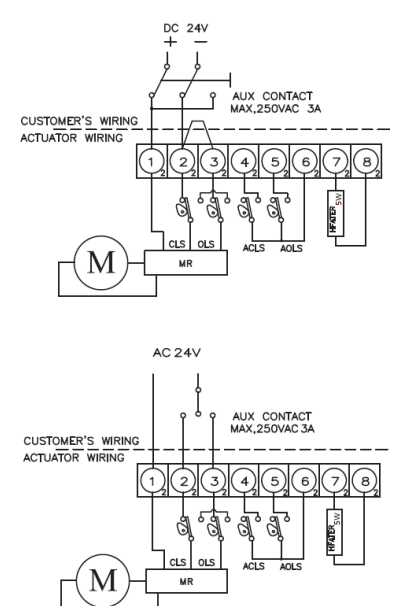
SA 05 - SA 05 S - SA 05 X ACTUATORS

ASSEMBLING AND MAINTAINANCE INSTRUCTIONS

7. WIRING DIAGRAM 230V AC 50Hz/60Hz

| | | |
|---|--------------------------|--|
| 1 | common | <p>CLS : Close Limit Switch (250VAC 3A) OLS : Open Limit Switch (250VAC 3A) ACLS : Aux Close Limit Switch (250VAC 3A) AOLS : Aux Open Limit Switch (250VAC 3A) TP : Thermal Protector (250VAC 3A) RM : Motor Regulation</p>  |
| 2 | Anti-condensation heater | |
| 3 | closing command | |
| 4 | opening command | |
| 5 | closing auxiliary | |
| 6 | closing auxiliary | |
| 7 | opening auxiliary | |
| 8 | Opening auxiliary | |

8. WIRING DIAGRAM 24V AC/DC-12V DC

| | | |
|---|---------------------------------------|---|
| 1 | Common or + | <p>CLS : Close Limit Switch (250VAC 3A) OLS : Open Limit Switch (250VAC 3A) ACLS : Aux Close Limit Switch (250VAC 3A) AOLS : Aux Open Limit Switch (250VAC 3A) TP : Thermal Protector (250VAC 3A) RM : Motor Regulation</p>  |
| 2 | Closing command | |
| 3 | Opening command | |
| 4 | closing auxiliary | |
| 5 | opening auxiliary | |
| 6 | Auxiliaries common | |
| 7 | Anti-condensation heater power supply | |
| 8 | Anti-condensation heater power supply | |

Information given as an indication only, and subject to possible modifications



SECTORIEL S.A.
 45 rue du Ruisseau
 38290 SAINT QUENTIN-FALLAVIER - FRANCE
 Telephone: +33 4 74 94 90 70 - Fax: +33 4 74 94 13 95
www.sectoriel.com / Email: sectoriel@sectoriel.fr

| | |
|-------|--------------|
| Pages | 3/3 |
| Ref. | IME23010 ENG |
| Rev. | 12 |
| Date | 10/2023 |