## A44 W0S...W2S: Motorised actuator with positioner

## How energy efficiency is improved

Electric cut-off in end position to save energy

## Features

- Actuation of control units such as air dampers, gates, butterfly valves, etc. for controllers with continuous output ( $0 . . .10 \mathrm{~V}$ or $0 \ldots 20 \mathrm{~mA}$ )
- Synchronous motor with limit switch and integrated positioner
- Maintenance-free gear unit
- Moves the control unit to any intermediate position

- Direction of operation can be selected with switch
- Cable gland M20 $\times 1.5$
- Crank for manual adjustment


## Technical data



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## Overview of types

i Admissible damper surface area: the recommended admissible damper area applies to equal-sided, smooth-running air dampers

| Type | Torque $(\mathrm{Nm})$ | Holding torque <br> $(\mathrm{Nm})$ | Running time <br> for $90^{\circ}(\mathrm{s})$ | Admissible <br> damper sur- <br> face area $\left(\mathrm{m}^{2}\right)$ | Power con- <br> sumption $(\mathrm{W})$ | Weight (kg) |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| A44W0SF001 | 25 | 22 | 30 | 8 | 12.2 | 2.7 |
| A44W1SF001 | 30 | 30 | 60 | 10 | 12.2 | 2.7 |
| A44W2SF001 | 30 | 30 | 120 | 10 | 6.8 | 2.4 |


| Accessories |  |
| :--- | :--- |
| Type | Description |
| 0188614000 | Fixing bracket for wall mounting |
| 0274605000 | Angled ball joint for clamping lever with M10 nut |
| 0294967000 | Pivot pin for clamping lever |
| 0370479000 | Steel hood + manual adjuster, hammer enamel finish RAL 1020 |
| 0370486000 | Clamping lever, complete (including square hub) |
| 0370493000 | 2 auxiliary contacts Min. load: 100 mA , 24 V~ |
| 0370628000 | Adaptor plate including 4 M6 countersunk screws for replacing A33 W. with A44 W. |
| 0370638000 | Straight ball joint for clamping lever with nut (M10) |
| 0371290001 | Cover, black, made of die-cast aluminium with display window, rubber seal, position indicator <br> and scale, type of protection IP 55 |
| 0372460001 | Cable screw fitting (plastic M20 $\times 1,5$ ) incl. locking nut and seal |

## Description of operation

The built-in positioner controls the positioning motor depending on the controller's output signal y. Direction of operation 1 and 2 can be selected with switch S2. Direction of operation 2 (as delivered ex works): The end shaft rotates in the anti-clockwise direction (viewing the control unit from the actuator). Starting point $\mathrm{U}_{0}$ and control span $\Delta \mathrm{U}$ are adjustable. The reversible synchronous motor is switched off in the end positions by the limit switches, and the self-locking is then ensured by an integrated magnetic brake. When the crank handle is used, the neutral wire of the motor is interrupted by means of a switch.
Priority switching: The control unit to be activated can be moved to any chosen intermediate position by closing the electrical circuit using terminals 1-5 or 1-6. The end shaft rotates in the anti-clockwise direction (viewing the control unit from the actuator) when the power is applied to terminal 6.

## Intended use

This product is only suitable for the purpose intended by the manufacturer, as described in the "Description of operation" section.
All related product documents must also be adhered to. Changing or converting the product is not admissible.

## Engineering and fitting notes

The angle of rotation is changed from $90^{\circ}$ to $180^{\circ}$ by reversing the two cogs and readjusting the limit switches. The end contacts and auxiliary change-over contacts are adjusted centrally on the switch tower, which has a direct mechanical connection to the end shaft (fitting instructions MV 505228).
The max. internal equipment for the actuator is: 2 change-over limit switches (standard) and 2 auxiliary change-over contacts. The connection terminals for the auxiliary functions are located directly on the corresponding limit switches and auxiliary switches (max. $1.5 \mathrm{~mm}^{2}$ ), and the earthing terminal is on the steel coverplate. The actuator is fixed via 4 M 6 holes on the end shaft side. The motorised actuator can be fitted in any position.

## Outdoor installation

The devices must also be protected from the weather if they are installed outside the building.

## Disposal

When disposing of the product, observe the currently applicable local laws.
More information on materials can be found in the Declaration on materials and the environment for this product.

## Connection diagram



## Accessories

370493


Dimension drawing



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[^0]:    1) Angle of rotation of end shaft is $90^{\circ}$ (factory set). Changing the arrangement to $180^{\circ}$ is possible by reversing the cogs and readjusting the limit switches. Refer to fitting instruction MV 505228
    2) Type of protection IP 43 only in conjunction with M20 $\times 1.5$ cable gland. Type of protection IP 55 is attained with Type of protection IP 43 only in conjunction with $M 20 \times 1.5$ cable
    steel or aluminium cover (accessory) and M20 $\times 1.5$ cable gland.
