20Nm On/Off or Raise/Lower & Modulating Actuators



Features

- Maintenance-free
- Position indication
- Reversible rotation
- Mechanically set rotation limits

Specification

Power supply:

VA-20x-24 19-29Vac/dc (24V nominal) VA-20A-230 85-265Vac (230V nominal)

Max. power consumption:

Running 3W Stopped 1.5W

Connection Via 1m flying lead (halogen free)

Angle of rotation 0° - 95° Running time <150s / 90°

Damper coupling:

Square 9-18mm Round 9-26mm

Damper size Up to approx. 4m²

Protection IP54

Aux. switch rating SPDT 5(2.5)A @250Vac Service life >60000 cycles (0°-95°-0°)

Ambient:

Temperature -30°C to +50°C RH 5 to 95% RH

Protection class

VA-20x-24 III
VA-20x-230 II

Conformity CE

Country of origin Germany

Product Codes

VA-20A-24S

24Vac/dc 20Nm on/off or Floating actuator with auxiliary switches

VA-20A-230S

230Vac 20Nm on/off or Floating actuator with auxiliary switches

VA-20M-24S

24Vac/dc 15Nm Modulating actuator with auxiliary switches

Technical Overview

The VA-20 range of actuators require either a 24Vac/dc or 230Vac supply depending on version ordered. They are available to accept either an on/off/floating (raise/lower) or modulating control signal input. They also have an auxiliary switches option.

The direction of rotation can be reversed. By a simple selector switch. The actuator is overload-proof, and requires no limit switches and automatically stops when the end stop is reached.

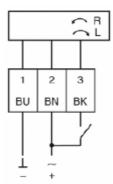
Installation

- Ensure that all power is disconnected before carrying out any work on the damper actuator.
- 2. Attach the actuator to the damper spindle, finger tighten the nuts on the V-clamp.
- 3. Fix the anti-rotation strap to the back of the actuator (bend if required).
- 4. Move the damper to the closed position.
- 5. Using the manual override push button, turn the clamp until the actuator is in the correct position.
- 6. Tighten the V-clamp.
- If the damper has no fixed stops of its own, the angle of rotation / working range can be adjusted mechanically by re-positioning the adjustable stops.
- 8. Terminate the cores of the flying lead as required (see next column).
- Ensure that the voltage is within the specified tolerances.

Operating Modes & Connections

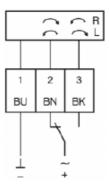
2-Point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. Is also BK (1+2+3) connected to the power supply the actuator is moving to position 0.



3-point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. If the power supply is interrupted the actuator maintains its current position. Is also BU+BK (1+3) connected to the power supply the actuator is moving in direction 0.



Rotary direction switch

R/CW= clockwise L/CCW= counter clockwise

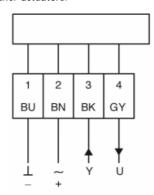




Operating Modes & Connections (continued)

Modulating.

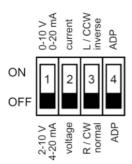
Through connecting the power supply to BU+BN (1+2) and a reference signal Y to BK (3) of 0(2)...10Vdc, moves the actuator to its specified position. The actual damper position 0...100% is a feedback signal U for example to share the signal with other actuators.



Mode-switch

Measure on angular range

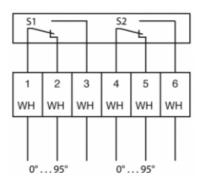
- Actuator power-off
- Setting the mechanical end stops
- · Connecting the actuator to the power supply
- -ut Dip 4 to "ON"
- Actuator is measuring on angular range
- "Y" refers to the measured angular range



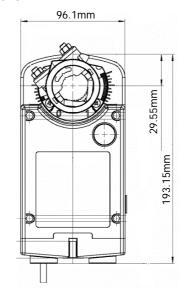
Manual Override

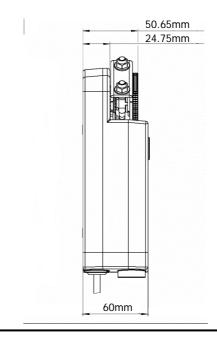
Manual override is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed)

End Switches



Dimensions





UK Sales Tel: 0845 345 7253

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International Tel: +44 1732 861225