

## Technical data sheet

### 227CS-024-08-V

*Actuator without spring return  
for flow- or pressure control  
with GUAC*

#### Description

**Actuator for adjusting air dampers of 90° angle of rotation to be used in HVAC installations.**

- **Torque Motor**                    **8 Nm**
- **Nominal Voltage**            **24 VAC/DC**
- **Control**                         **6 ± 4 VDC (of GUAC)**
- **Damper size**                 **up to approx. 1,6 m<sup>2</sup>**
- **Damper coupling**           **Clamp**  
   **◇ 8-12 mm / Ø 8-16 mm**



#### Technical data

##### Electrical data

Nominal voltage	24 VAC/DC
Nominal voltage range	19...29 VAC/DC
Power consumption motor (motion)	12,0 W
Power consumption standby (end position)	5,5 W
Wire sizing	16,0 VA
Control	6 ± 4 VDC (of GUAC)
Position feedback	-
Auxiliary switch	-
Contact load	-
Switching point	-
Connection Motor	-
Connection Auxiliary switch	-
Connection Position feedback	-
Connection GUAC	Cable 1000 mm with Phoenix connector

##### Functional data

Torque Motor	>8 Nm
Synchronised speed	-
Direction of rotation	switchable by GUAC with GUIV
Manual override	Gearing latch disengaged with pushbutton, self-resetting
Angle of rotation	0°... max. 95° can be limited with adjustable mechanical end stop min 20°.
Running time Motor	3...5 s / 90°
Sound power level Motor	< 60 dB(A)
Damper coupling	Clamp ◇ 8-12 mm / Ø 8-16 mm
Position indication	mechanical with pointer

## Technical data

### Functional data

Service life >60'000 cycles (0° - 95° - 0°)

### Safety

Protection class	III (low voltage safety current)
Degree of protection	IP54 (Cable downwards)
EMC	CE (2004/108/EG)
LVD	CE (2006/95/EG)
RoHS	CE (2011/65/EU)
Mode of operation	Typ 1 (EN 60730-1)
Rated impulse voltage	0,8 kV (EN 60730-1)
Control pollution degree	3 (EN 60730-1)
Ambient temperature normal operation	-30°...+50°
Storage temperature	-30°...+80°
Ambient humidity	5...95% r.F., non- condensating (EN 60730-1)
Maintenance	maintenance free

### Dimensions/ Weight

Dimensions	115 x 65 x 89 mm
Weight	ca. 530 g

## Operating mode / Properties

### Operating mode

Through connecting the power supply to BU+BN (1+2) with a standard signal Y to BK (3) of  $6 \pm 4$  VDC (GUAC), moves the actuator to its specified position. The actual damper position 0...100% is provided as a feedback signal U.

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

### Direct mounting

Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

### Direct connection (GUAC)

Simple direct mounting to the actuator used by Phoenix - plug - connection.

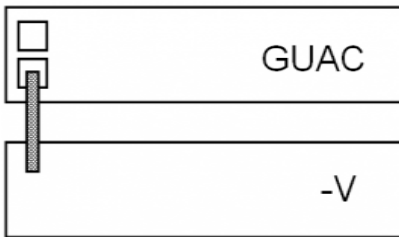
### assembly (GUAC)

Easily attach with mounting tabs on the device.

### Manual override

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

## Connection / Safety remarks

**Safety remarks**

- Connect via safety isolation transformer
- The actuator is not allowed to be used outside the specified field of application, especially in airplanes.
- In may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- The device may only be opened at the manufacturer's site.
- When calculating the required torque, the specifications supplied by the damper manufacturers (cross- section, design, installation site), and the air flow conditions must be observed.
- The actuator is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Technical drawing

