

Technical data sheet

227CS-024-05-V/ST05

Continuous control actuator 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 5 Nm
- Nominal Voltage 24 VAC/DC
- Control 6 ± 4 VDC (of GUAC)
- Damper size up to approx. 1 m²
- Damper coupling Clamp
 ∅ 8-15 mm / Ø 8-20 mm


Technical data

Electrical data	Nominal voltage	24 VAC/DC
	Nominal voltage range	19...29 VAC/DC
	Power consumption motor (motion)	3,0 W
	Power consumption standby (end position)	1,0 W
	Wire sizing	5,0 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 Phönix connector	
Functional data	Torque Motor	>5 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	20...35 s / 90°
	Sound power level Motor	< 45 dB(A)
	Damper coupling	Clamp ∅ 8-15 mm / Ø 8-20 mm
	Position indication	mechanical with pointer
	Service life	>60'000 cycles (0° - 95° - 0°) >1'000'000 partial cycles (max. ±5°)

Technical data

Safety	Protection class	III (safety extra-low voltage)
	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% relative humidity, non condensing (EN 60730-1)
	Maintenance	maintenance free
	Dimensions/ Weight	Dimensions
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 ± 4 VDC (GUAC), moves the actuator to its specified position.

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)

Simply connect the actuator with the Phoenix-plug-connection.

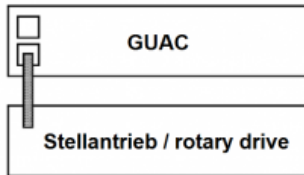
Mounting (GUAC)

Easily installed by 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.
- It 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

