

Technical data sheet

341C-024-05-V Spring return servomotor for GUAC controller

Description

Spring return servomotor for adjusting dampers in combination with a GUAC for pressure and volumetric flow control in HVAC installations

- Running time motor 100 s / 90°
- Running time spring 20 s / 90°
- Torque motor 5 Nm
- Torque spring 5 Nm
- Nominal voltage 24 VAC/DC
- Control 6 ± 4 VDC (GUAC)
- Damper size up to approx. 1 m² clamp
- Shaft coupling ∅ 13 mm / Ø 16,5 mm



Technical data

Electrical data	Nominal voltage	24 VAC/DC, 50/60 Hz
	Voltage range	19...29 VAC/DC
	Power consumption motor (motion)	5,0 W
	Power consumption standby (end position)	2,0 W
	Wire sizing	6,5 VA
	Control	6 ± 4 VDC (GUAC)
	Feedback signal	-
	Auxiliary switch	-
	Contact load	-
	Switching point	-
	Connection motor	-
	Connection feedback potentiometer	-
	Connection auxiliary switch	-
	Connection GUAC	cable 1000 mm with Phoenix connector
	Functional data	Torque motor

Technical data

Functional data	Torque spring	5 Nm
	Damper size	up to approx. 1 m ²
	Synchronized speed	±5%
	Direction of rotation	selected by mounting
	Manual override	manual operation
	Angle of rotation	0°...max. 95° can be limited with adjustable mechanical end stops
	Running time motor	100 s / 90°
	Running time spring	20 s / 90°
	Sound power level motor	< 35 dB(A)
	Sound power level spring	< 65 dB(A)
	Shaft coupling	clamp \varnothing 13 mm / \varnothing 16,5 mm
	Position indication	mechanical with pointer
	Service life	> 60 000 cycles (0°...95°...0°)
		> 1 000 000 partial cycles (max. ±5°)
	Safety	Protection class
Degree of protection		IP 54
EMC		CE (2014/30/EU)
LVD		CE (2014/35/EU)
RoHS		CE (2011/65/EU - 2015/863/EU - 2017/2102/EU)
Mode of operation		Typ 1 (EN 60730-1)
Rated impulse voltage supply / control		0,8 kV (EN 60730-1)
Control pollution degree		3 (EN 60730-1)
Ambient temperature normal operation		-30°C...+50°C
Storage temperature		-30°C...+80°C
Ambient humidity		5...95% r.H., non condensing (EN 60730-1)
Maintenance		maintenance free
Dimensions / Weight	Dimensions	145 x 75 x 70 mm
	Weight	1300 g

Functionality / Properties

Operating mode

Connect power supply to wire 1+2 and a reference signal Y to wire 3 in range of 6 ± 4 VDC (GUAC), servomotor drives to its specified position. If the power supply is interrupted, servomotor drives back to position 0 by spring power. The servomotor is still maintaining the minimum torque at the damper spindle.

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

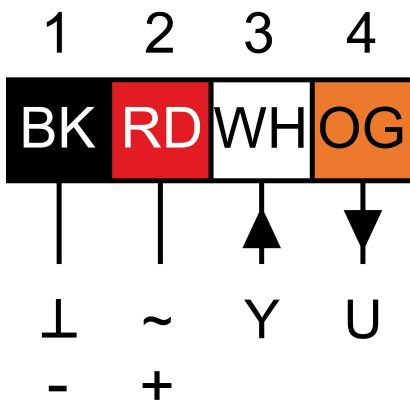
Direct mounting

Simple direct mounting on the damper shaft with a clamp, protection against rotating with enclosed anti-rotation lock or rather at intended attachment points.

Manual override

The servomotor can be operated only manually while the power supply is off. The supplied lever is to open and lock the damper position. The lock stays until the power supply is put on.

Connector / Security Note



Safety remarks

- Connect via safety isolation transformer!
- The device 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.
- Cables must not be removed from the device.
- The cable of this servomotor cannot be replaced. If the cable is damaged, the servomotor should be scrapped.
- The device is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.
- When calculating the required torque, the specifications supplied by the damper manufacturer's (cross-section, design, installation site), and the air flow conditions must be observed.

Technical Drawing

