

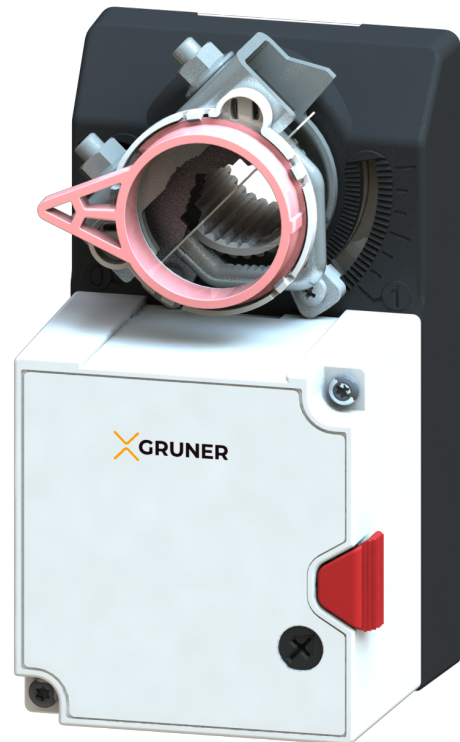
Technical data sheet

**227-024-05**  
**Rotary actuator**

Description

Rotary actuator for adjusting dampers in HVAC installations

- Running time 100 s / 90°
- Torque 5 Nm
- Nominal voltage 24 VAC/DC
- Control 2-/3-point
- Damper size up to approx. 1 m<sup>2</sup>
- Shaft coupling clamp  
∅ 8-15 mm / Ø 8-20 mm



Technical data

|                        |  |  |
|------------------------|--|--|
| <b>Electrical data</b> | Nominal voltage                          | 24 VAC/DC, 50/60 Hz                                    |
|                        | Voltage range                            | 19...29 VAC/DC   |
|                        | Power consumption motor (motion)         | 2,0 W  |
|                        | Power consumption standby (end position) | 1,0 W  |
|                        | Wire sizing                              | 4,0 VA   |
|                        | Control                                  | 2-/3-point   |
|                        | Feedback signal                          | -  |
|                        | Auxiliary switch                         | -  |
|                        | Contact load                             | -  |
|                        | Switching point                          | -  |
|                        | Connection motor                         | cable 1000 mm, 3 x 0,75 mm <sup>2</sup> (halogen free) |
|                        | Connection feedback potentiometer        | -  |
|                        | Connection auxiliary switch              | -  |
|                        | Connection GUAC                          | -  |
| <b>Functional data</b> | Torque                                   | 5 Nm   |

## Technical data

|                            |  |   |
|----------------------------|--|---|
| <b>Functional data</b>     | Damper size                            | up to approx. 1 m <sup>2</sup>                                    |
|                            | Synchronized speed                     | ±5%   |
|                            | Direction of rotation                  | selected by switch  |
|                            | Manual override                        | gearing latch disengaged with pushbutton, self-resetting          |
|                            | Angle of rotation                      | 0°...max. 95° can be limited with adjustable mechanical end stops |
|                            | Running time                           | 100 s / 90°   |
|                            | Sound power level                      | < 35 dB(A)  |
|                            | Shaft coupling                         | clamp $\varnothing$ 8-15 mm / $\varnothing$ 8-20 mm               |
|                            | Position indication                    | mechanical with pointer   |
|                            | Service life                           | > 100 000 cycles (0°...95°...0°)                                  |
| <b>Safety</b>              | Protection class                       | III (safety extra-low voltage)                                    |
|                            | Degree of protection                   | IP 54 (cable downwards)   |
|                            | Cable mounting type                    |   |
|                            | 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  |
|                            | 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                                      |
|                            | Maintenance                            | maintenance free  |
| <b>Dimensions / Weight</b> | Dimensions                             | 117 x 67 x 66 mm  |
|                            | Weight                                 | 460 g   |

## Functionality / Properties

### Operating mode

2 point:  
Connect power supply to wire 1+2, actuator drives to position 1. Is also wire 3 connected to the power supply, actuator drives to position 0.

3 point:  
Connect power supply to wire 1+2, actuator drives to position 1. Is wire 1+3 connected to the power supply, actuator drives to position 0.

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 shaft with a clamp, protection against rotating with enclosed anti-rotation lock or rather at intended attachment points.

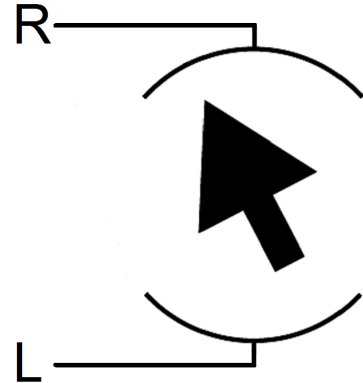
### Manual override

Manual override with self-resetting pushbutton possible (the gear is disengaged as long as the button is pressed).

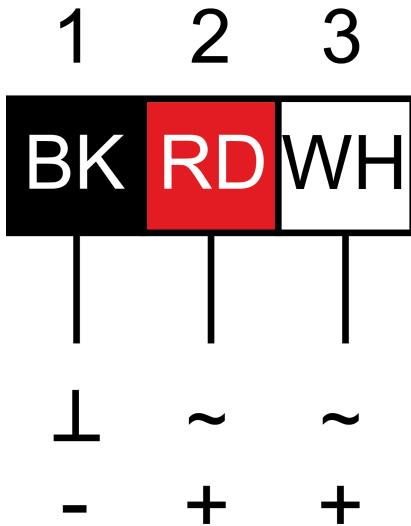
### Mode switch

Mode switch with two positions at the housing:

R: rotary rotation right / clockwise  
L: rotary rotation left / counter clockwise



### 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 actuator cannot be replaced. If the cable is damaged, the actuator 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

