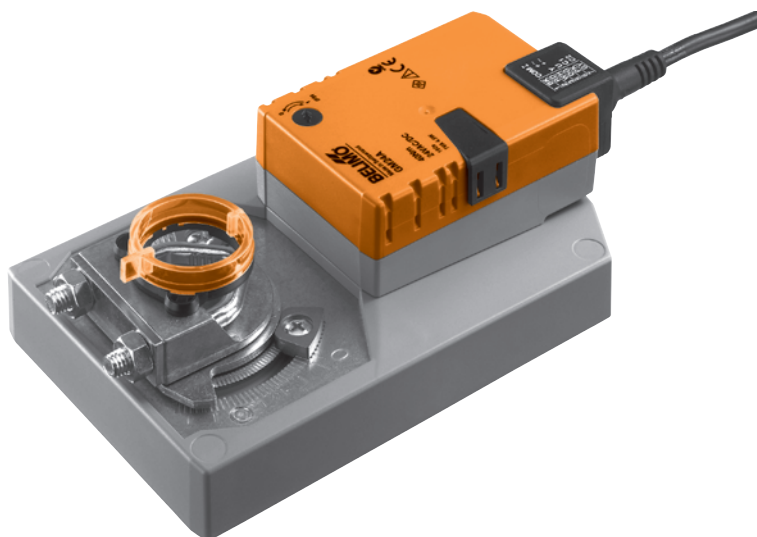


Damper actuator for operating air control dampers in ventilation and air-conditioning systems for building services installations

- For air control dampers up to approx. 8 m<sup>2</sup>
- Torque 40 Nm
- Nominal voltage AC/DC 24 V
- Control: Open-close (not made for 3-point applications)



### Technical data

|                            |                           |                                                                               |
|----------------------------|---------------------------|-------------------------------------------------------------------------------|
| <b>Electrical data</b>     | Nominal voltage           | AC 24 V, 50/60 Hz<br>DC 24 V                                                  |
|                            | Nominal voltage range     | AC/DC 19.2 ... 28.8 V                                                         |
|                            | Power consumption         | In operation 4 W @ nominal torque<br>At rest 2 W<br>For wire sizing 6 VA      |
|                            | Connection                | Cable 1 m, 3 x 0.75 mm <sup>2</sup>                                           |
| <b>Functional data</b>     | Torque (nominal torque)   | Min. 40 Nm @ nominal voltage                                                  |
|                            | Direction of rotation     | Reversible with switch 0 ↺ or 1 ↻                                             |
|                            | Manual override           | Gearing latch disengaged with pushbutton, detentable                          |
|                            | Angle of rotation         | Max. 95°↔, limited on both sides by means of adjustable, mechanical end stops |
|                            | Running time              | 150 s / 90°↔                                                                  |
|                            | Sound power level         | Max. 45 dB (A)                                                                |
|                            | Position indication       | Mechanical, pluggable                                                         |
| <b>Safety</b>              | Protection class          | III Safety extra-low voltage                                                  |
|                            | Degree of protection      | IP54 in any mounting position                                                 |
|                            | EMC                       | CE according to 89/336/EEC                                                    |
|                            | Mode of operation         | Type 1 (EN 60730-1)                                                           |
|                            | Rated impulse voltage     | 0.8 kV (EN 60730-1)                                                           |
|                            | Control pollution degree  | 3 (EN 60730-1)                                                                |
|                            | Ambient temperature range | -30 ... +50 °C                                                                |
|                            | Non-operating temperature | -40 ... +80 °C                                                                |
|                            | Ambient humidity range    | 95% r.H., non-condensating (EN 60730-1)                                       |
| <b>Dimensions / Weight</b> | Maintenance               | Maintenance-free                                                              |
|                            | Dimensions                | See «Dimensions» on page 2                                                    |
|                            | Weight                    | Approx. 1'700 g                                                               |

### Safety notes



- The damper actuator is not allowed to be used outside the specified field of application, especially in aircraft or any other form of air transport.
- Assembly must be carried out by 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. It does not contain any parts that can be replaced or repaired by the user.
- The cable must not be removed from the device.
- 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 device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.

## Product features

|                                     |                                                                                                                                                          |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Simple direct mounting</b>       | Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating. |
| <b>Manual override</b>              | Manual operation is possible with the pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed or detented).                |
| <b>Adjustable angle of rotation</b> | Adjustable angle of rotation with mechanical end stops.                                                                                                  |
| <b>High functional reliability</b>  | The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.                                         |

## Accessories

|                               | Description                                                                    | Data sheet     |
|-------------------------------|--------------------------------------------------------------------------------|----------------|
| <b>Electrical accessories</b> | Auxiliary switch, type S..A..                                                  | T2 - S..A..    |
|                               | Feedback potentiometer, type P..A..                                            | T2 - P..A..    |
| <b>Mechanical accessories</b> | Various accessories (Damper and actuator crank arms, anti-rotation strap etc.) | T2 - Z-GM..A.. |

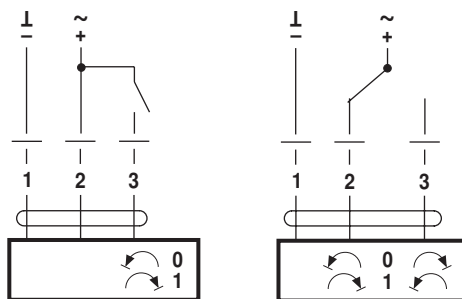
## Electrical installation

### Wiring diagrams

#### Notes

- Connection via safety isolating transformer.
  - Other actuators can be connected in parallel.
- Please note the performance data.

Direction of rotation



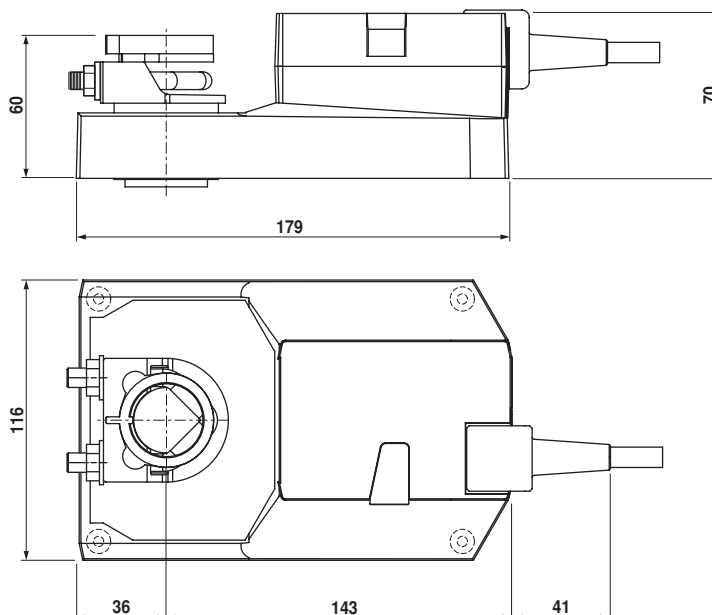
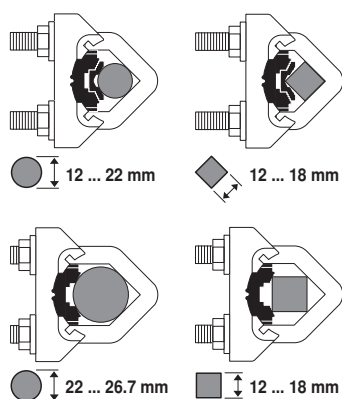
#### Cable colours:

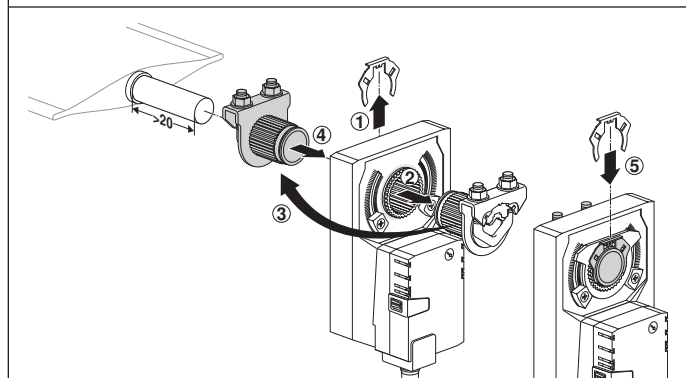
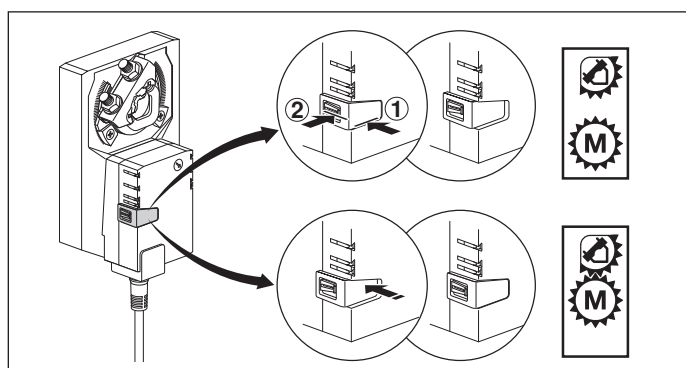
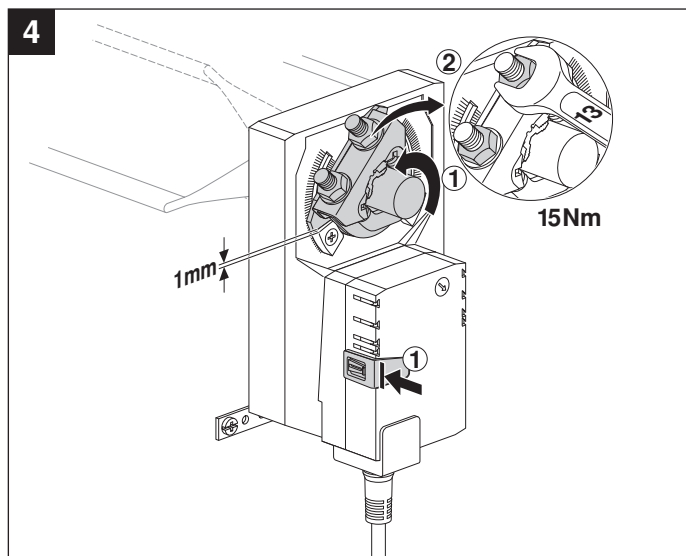
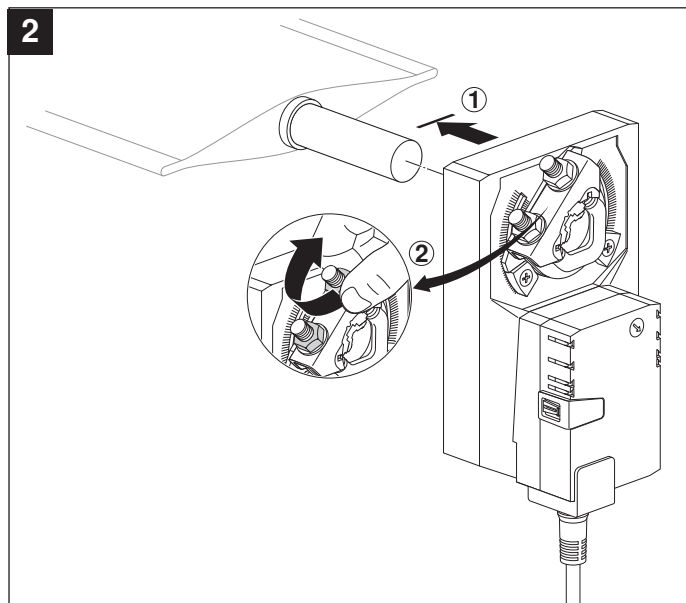
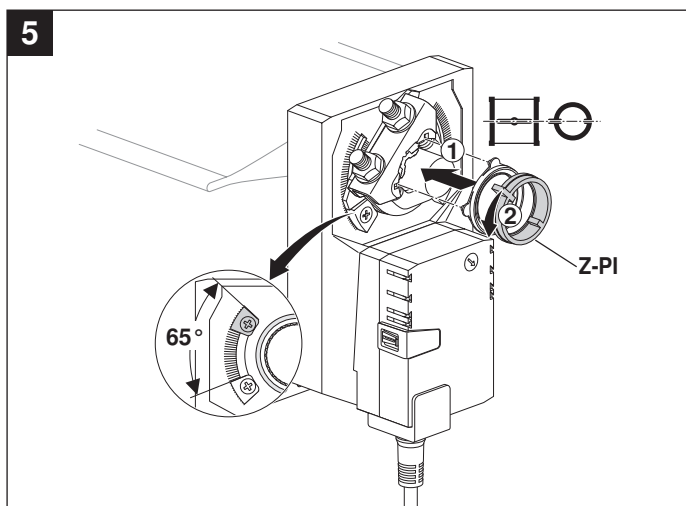
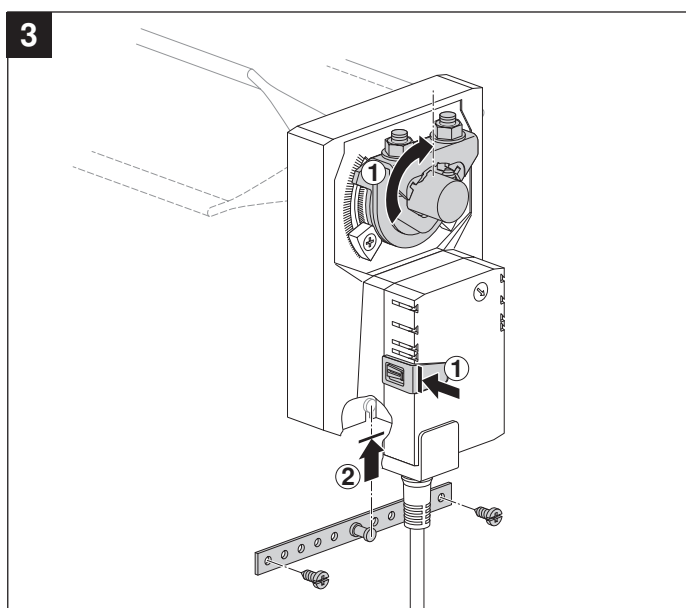
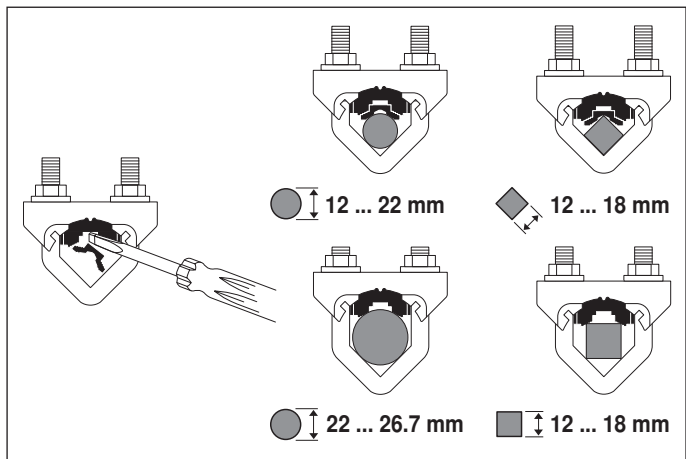
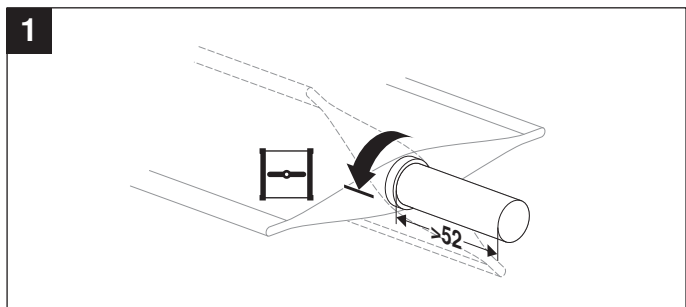
- 1 = black
- 2 = red
- 3 = white

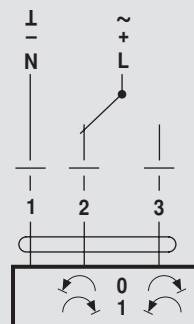
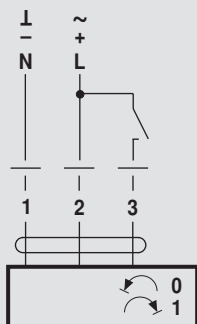
## Dimensions [mm]

### Dimensional drawings

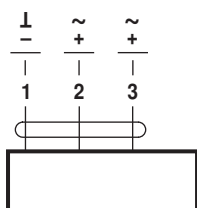
| Damper spindle                                                                      | Length | ●           | ■   | ◆     |
|-------------------------------------------------------------------------------------|--------|-------------|-----|-------|
|  | >52    | 12 ... 26.7 | >12 | <25.2 |
|  | >20    | 12 ... 26.7 | >12 | <25.2 |



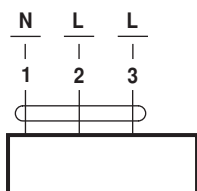




AC 24 V / DC 24 V



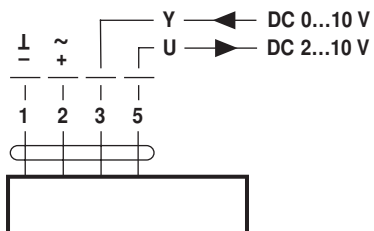
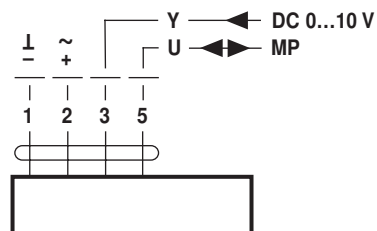
GM24A..

AC 100 ... 240 V 

GM230A..



AC 24 V / DC 24 V

GM24A-SR..  
GM24A-MF..

GM24A-MP..

AC 24 V / DC 24 V  
(GM24A-V / VR..)