

- Air damper size up to approx. 0.4 m<sup>2</sup>
- Torque motor 2 Nm
- Nominal voltage AC/DC 24 V
- Control Open/close, 3-point
- with connecting terminals



## Technical data

|                        |                                        |                                                                                                                                                                           |
|------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Electrical data</b> | Nominal voltage                        | AC/DC 24 V                                                                                                                                                                |
|                        | Nominal voltage frequency              | 50/60 Hz                                                                                                                                                                  |
|                        | Nominal voltage range                  | AC 19.2...28.8 V / DC 19.2...28.8 V                                                                                                                                       |
|                        | Power consumption in operation         | 0.5 W                                                                                                                                                                     |
|                        | Power consumption in rest position     | 0.2 W                                                                                                                                                                     |
|                        | Power consumption for wire sizing      | 1 VA                                                                                                                                                                      |
|                        | Connection supply / control            | Terminals 1.5 mm <sup>2</sup> Cu wire or 1.0 mm <sup>2</sup> Cu strands (3-wire) Terminals for 3 x 1.5 mm <sup>2</sup> CU wire or 3 x 1.0 mm <sup>2</sup> CU strands      |
|                        | Parallel operation                     | Yes (note the performance data)                                                                                                                                           |
| <b>Functional data</b> | Torque motor                           | 2 Nm                                                                                                                                                                      |
|                        | Direction of motion motor              | clockwise rotation                                                                                                                                                        |
|                        | Manual override                        | with magnet                                                                                                                                                               |
|                        | Angle of rotation                      | 0...287.5°                                                                                                                                                                |
|                        | Angle of rotation note                 | Without limitation: endless<br>315° with one end stop clip mounted on the actuator                                                                                        |
|                        | Running time motor                     | 75 s / 90°                                                                                                                                                                |
|                        | Sound power level, motor               | 35 dB(A)                                                                                                                                                                  |
|                        | Mechanical interface                   | Universal shaft clamp 6...12.7 mm                                                                                                                                         |
|                        | Position indication                    | Mechanical, pluggable (with integrated magnet for gear train disengagement)                                                                                               |
| <b>Safety data</b>     | Protection class IEC/EN                | III, Safety Extra-Low Voltage (SELV)                                                                                                                                      |
|                        | Power source UL                        | Class 2 Supply                                                                                                                                                            |
|                        | Degree of protection IEC/EN            | IP20                                                                                                                                                                      |
|                        | Degree of protection NEMA/UL           | NEMA 1                                                                                                                                                                    |
|                        | Enclosure                              | UL Enclosure Type 1                                                                                                                                                       |
|                        | EMC                                    | CE according to 2014/30/EU                                                                                                                                                |
|                        | Certification IEC/EN                   | IEC/EN 60730-1 and IEC/EN 60730-2-14                                                                                                                                      |
|                        | UL Approval                            | cULus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1<br>The UL marking on the actuator depends on the production site, the device is UL-compliant in any case |
|                        | Type of action                         | Type 1                                                                                                                                                                    |
|                        | Rated impulse voltage supply / control | 0.8 kV                                                                                                                                                                    |
|                        | Pollution degree                       | 2                                                                                                                                                                         |
|                        | Ambient humidity                       | Max. 95% RH, non-condensing                                                                                                                                               |
|                        | Ambient temperature                    | -30...50°C [-22...122°F]                                                                                                                                                  |
|                        | Storage temperature                    | -40...80°C [-40...176°F]                                                                                                                                                  |

|                    |           |                  |
|--------------------|-----------|------------------|
| <b>Safety data</b> | Servicing | maintenance-free |
| <b>Weight</b>      | Weight    | 0.16 kg          |

## Safety notes



- This device has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Outdoor application: only possible in case that no (sea) water, snow, ice, insolation or aggressive gases interfere directly with the device and that it is ensured that the ambient conditions remain within the thresholds according to the data sheet at any time.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
- 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.
- To calculate the torque required, the specifications supplied by the damper manufacturers concerning the cross-section, the design, the installation situation and the ventilation conditions must be observed.
- The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

## Product features

|                                     |                                                                                                                                                                                                                                                     |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Simple direct mounting</b>       | The actuator is mounted directly on the damper shaft (Ø 6...12.7 mm) with a universal shaft clamp and then secured with the anti-rotation clip, to prevent it from rotating.<br>The anti-rotation clip Z-ARCM is included in the scope of delivery. |
| <b>Manual override</b>              | Manual override with magnet possible (the gear train is disengaged as long as the magnet adheres to the magnet symbol). The magnet for gear train disengagement is integrated in the position indication.                                           |
| <b>Adjustable angle of rotation</b> | Adjustable angle of rotation with mechanical end stops.                                                                                                                                                                                             |
| <b>High functional reliability</b>  | The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached.                                                                                                                                |

## Accessories

| Mechanical accessories | Description                                                | Type   |
|------------------------|------------------------------------------------------------|--------|
|                        | Anti-rotation clip, Multipack 20 pcs.                      | Z-ARCM |
|                        | Gear train disengagement magnet, Multipack 20 pcs.         | Z-MA   |
|                        | Position indicator, Multipack 20 pcs.                      | Z-PICM |
|                        | End stop clip, Multipack 20 pcs.                           | Z-ESCM |
|                        | Shaft extension 170 mm Ø10 mm for damper shaft Ø 6...16 mm | AV6-20 |

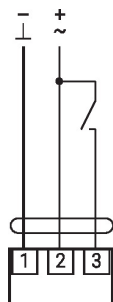
## Electrical installation



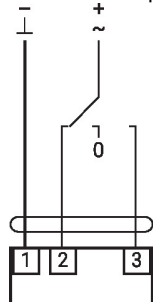
- Supply from isolating transformer.
- Parallel connection of other actuators possible. Observe the performance data.

### Wiring diagrams

AC/DC 24 V, open/close



AC/DC 24 V, 3-point

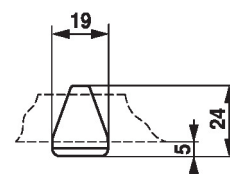
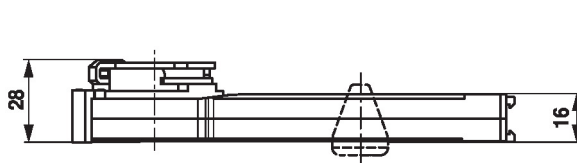


| 1 | 2 | 3 |  |
|---|---|---|--|
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|   |   |   |  |
|   |   |   |  |

### Dimensions

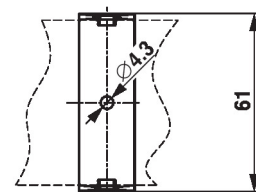
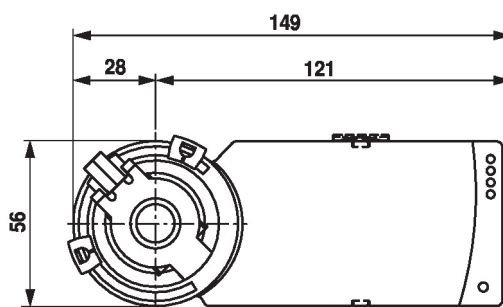
#### Spindle length

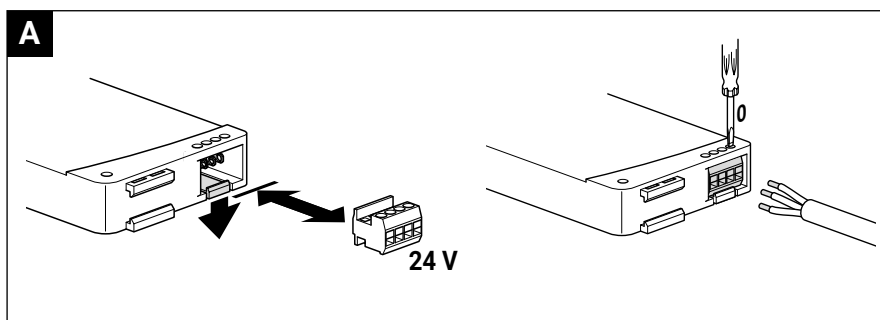
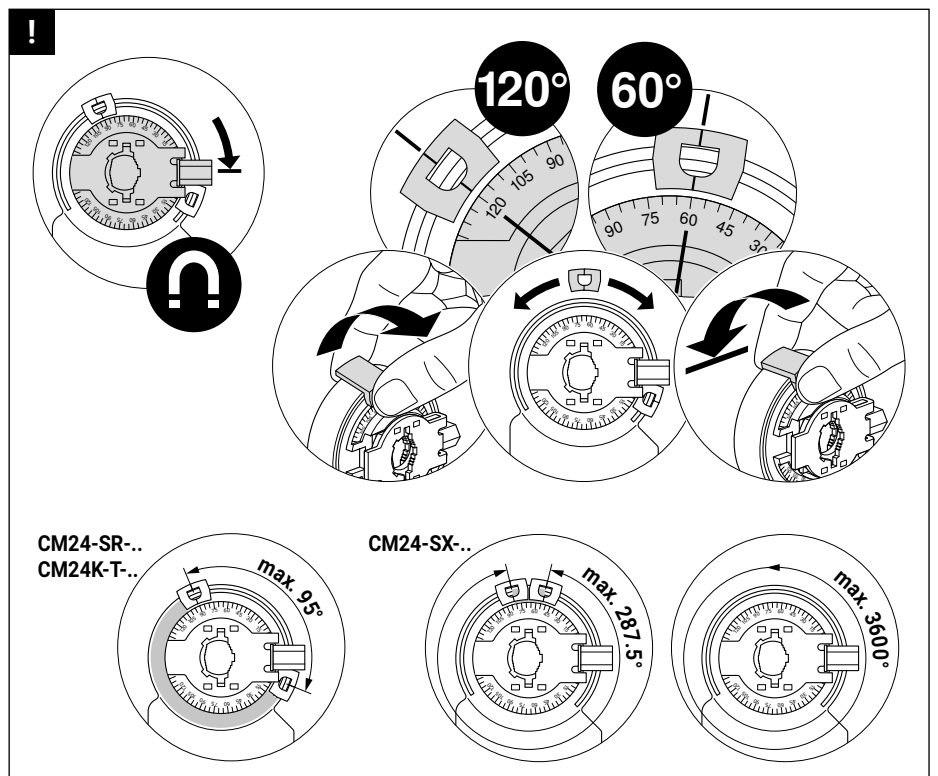
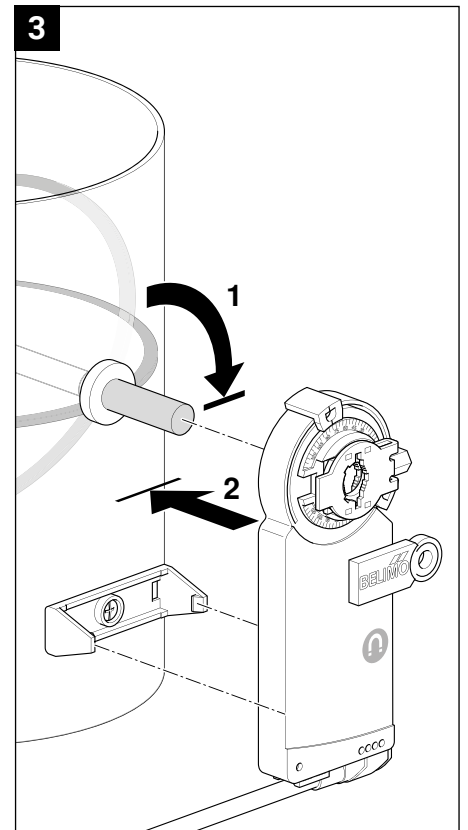
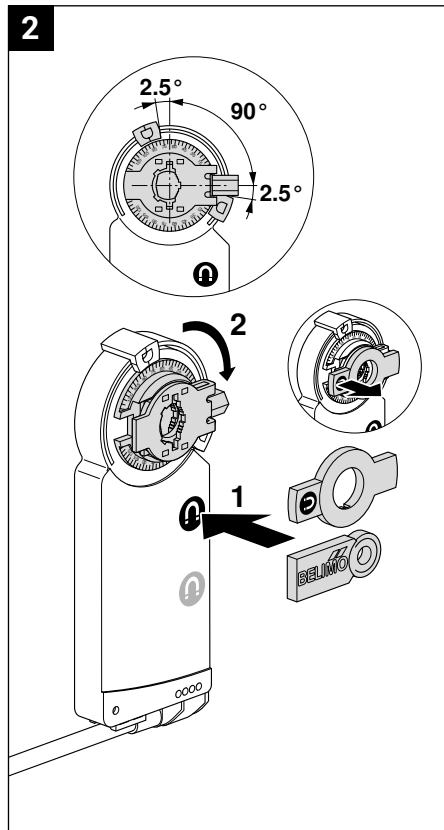
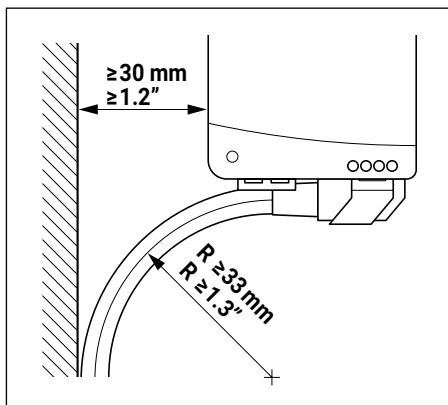
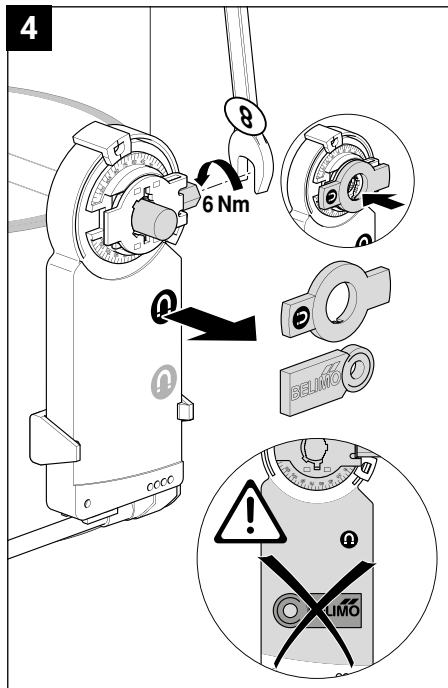
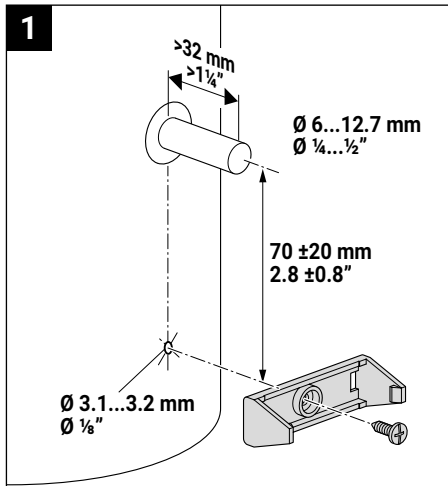
|  |         |
|--|---------|
|  | Min. 32 |
|  | -       |

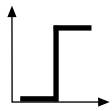


#### Clamping range

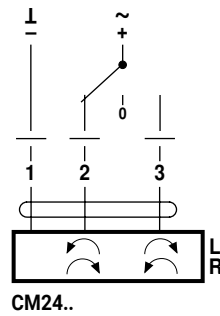
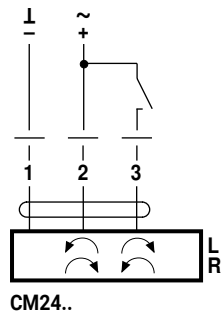
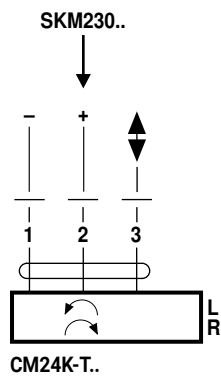
|          |            |          |
|----------|------------|----------|
|          |            |          |
| 6...12.7 | 6 / 8 / 10 | 6...12.7 |



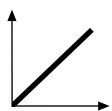
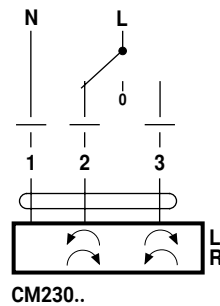
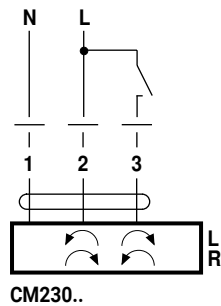




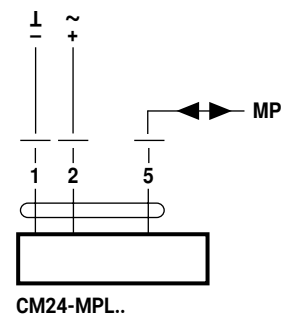
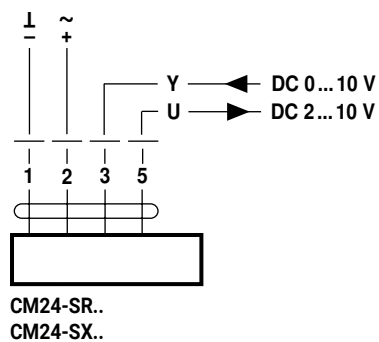
AC 24 V / DC 24 V

DC 24 V  
(SKM230..)

AC 100...240 V



AC 24 V / DC 24 V



# SALES CONTACT



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