Technical data sheet

CM230-...

Damper actuator for operating air control dampers in ventilation and air-conditioning systems for building services installations
• For air dampers up to approx. 0.4 m²
• Torque 2 Nm
• Nominal voltage AC 100 ... 240 V
• Control: Open-close or 3-point

Type overview

<table>
<thead>
<tr>
<th>Type</th>
<th>Direction of rotation</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM230-L</td>
<td>counter-clockwise (ccw)</td>
</tr>
<tr>
<td>CM230-R</td>
<td>clockwise (cw)</td>
</tr>
</tbody>
</table>

Technical data

Electrical data
- Nominal voltage: AC 100 ... 240 V, 50/60 Hz
- Nominal voltage range: AC 85 ... 265 V
- Power consumption:
  - In operation: 1.5 W @ nominal torque
  - At rest: 1 W
  - For wire sizing: 3 VA
- Connection: Cable 1 m, 3 x 0.75 mm²

Functional data
- Torque (nominal torque): Min. 2 Nm @ nominal voltage
- Direction of rotation: See «Type overview»
- Manual override: Gear disengagement with magnet
- Angle of rotation:
  - Without limit: Endless
  - With limit: Fixed 315° or 0 ... 287.5° with mechanical end stops, can be adjusted in 2.5° increments
- Running time: 75 s / 90°-
- Sound power level: Max. 35 dB (A)
- Position indicator: Mechanical, pluggable (with integrated magnet for gear disengagement)

Safety
- Protection class: II totally insulated
- Degree of protection: IP54 in any mounting position
- EMC:
  - NEMA2, UL Enclosure Type 2
  - Low voltage directive: CE according to 2004/108/EC
  - CE according to 2006/95/EC
- Certification:
  - cULus according to UL 60730-1A and UL 60730-2-14
  - CAN/CSA E60730-1:02
  - Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14
- Mode of operation: Type 1 (EN 60730-1)
- Rated impulse voltage: 2.5 kV (EN 60730-1)
- Control pollution degree: 3 (EN 60730-1)
- Ambient temperature: –30 ... +50°C
- Non-operating temperature: –40 ... +80°C
- Ambient humidity: 95% r.H., non-condensing (EN 60730-1)
- Maintenance: Maintenance-free

Dimensions / Weight
- Dimensions: See «Dimensions» on page 2
- Weight: Approx. 220 g

Safety notes

! The actuator is not allowed to be used outside the specified field of application, especially in aircraft or any other form of air transport.
! Caution: Power supply voltage!
! 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.
Safety notes (Continue)

- When calculating the required torque, the specifications supplied by the damper manufacturers (cross section, design, installation site), and the airflow 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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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<tbody>
<tr>
<td>Simple direct mounting</td>
<td>Simple direct mounting on the damper spindle with a universal spindle clamp (Ø 6 ... 12.7 mm). The actuator is then secured with the anti-rotation strap supplied, to prevent it from rotating.</td>
</tr>
<tr>
<td>Manual override</td>
<td>Manual override with magnet possible (the gear is disengaged as long as the magnet adheres to the symbol Ø). The magnet for gear disengagement is integrated in the position indicator.</td>
</tr>
<tr>
<td>Adjustable angle of rotation</td>
<td>Adjustable angle of rotation with mechanical end stops.</td>
</tr>
<tr>
<td>High functional reliability</td>
<td>The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.</td>
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</tbody>
</table>

Electrical installation

<table>
<thead>
<tr>
<th>Wiring diagrams</th>
<th>Open-close control</th>
<th>3-point control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notes</td>
<td>Caution: Power supply voltage !</td>
<td>Other actuators can be connected in parallel. Please note the performance data.</td>
</tr>
</tbody>
</table>

Dimensions [mm]

<table>
<thead>
<tr>
<th>Dimensional drawings</th>
<th>Damper spindle Length</th>
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<tbody>
<tr>
<td>≥32</td>
<td>6 ... 12.7</td>
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