

MD5B, MD10B, MD20B, MD40B

The MD...B are on/off damper actuators designed for operating air control dampers in ventilation and air conditioning systems for building services installations.

The actuators are available in 24 Vac/Vdc or 230 Vac versions.

Versions available with integrated end point switch (-S types).
Auxiliary switch also available as an accessory.



Specification

| | |
|-------------------------|--|
| Connection cable | |
| Actuator | 1 m, 3×0.75 mm ² (AWG 18) |
| Auxiliary switches (-S) | 1 m, 3×0.75 mm ² (AWG 18) |
| Angle of rotation | max. 95° (adjustable by mechanical stops) |
| Running time | 150 s |
| Direction of rotation | Reversible with switch 0 / 1 at switch position 0 resp 1 |
| Position indication | Mechanical |
| Auxiliary switch | 1 mA...3 (0.5) A, 250 Vac |
| Switching point | (adjustable 0...100%) |

| | |
|--------------------------|------------------------------|
| Standards conformity | |
| EMC, emission | EN61000-6-3: 07 |
| EMC, immunity | EN 61000-6-2: 05 |
| LVD Safety; MD5B-230(-S) | EN 60730-1/2-14 |
| Protection Class | |
| MD..B-24(-S) | III Safety extra-low voltage |
| MD..B-230(-S) | II Totally insulated |
| Enclosure rating | IP 54 |
| Ambient humidity | 95% RH, non condensing |
| Ambient temperature | |
| Operation | -30...+50°C |
| Storage | -40...+80°C |
| Maintenance | Maintenance free |

| Part number | Description | Torque Nm | Power supply | Power Consumption | | |
|--------------|-------------|-----------|-------------------|-------------------|---------|------------------------|
| | | | | In operation | At rest | For Transformer Sizing |
| 875 1001 000 | MD5B-230 | 5 | 230 Vac -60%/+15% | 1.5 W | 0.4 W | 3.5 VA |
| 875 1003 000 | MD5B-230-S | 5 | 230 Vac -60%/+15% | 1.5 W | 0.4 W | 3.5 VA |
| 875 1005 000 | MD5B-24 | 5 | 24 Vac/Vdc ± 20% | 1 W | 0.2 W | 1.5 VA |
| 875 1007 000 | MD5B-24-S | 5 | 24 Vac/Vdc ± 20% | 1 W | 0.2 W | 1.5 VA |
| 875 1011 000 | MD10B-230 | 10 | 230 Vac -60%/+15% | 2.5 W | 0.6 W | 5.5 VA |
| 875 1015 000 | MD10B-24 | 10 | 24 Vac/Vdc ± 20% | 1.5 W | 0.2 W | 3.5 VA |
| 875 1021 000 | MD20B-230 | 20 | 230 Vac -60%/+15% | 2.5 W | 0.6 W | 6 VA |
| 875 1025 000 | MD20B-24 | 20 | 24 Vac/Vdc ± 20% | 2 W | 0.2 W | 4 VA |
| 875 1035 000 | MD40B-24 | 40 | 24 Vac/Vdc ± 20% | 4 W | 2 W | 6 VA |

| Description | For air control dampers area | Damper spindle | Spindle length mm | Spindle diameter mm |
|-------------|------------------------------|------------------|-------------------|---------------------|
| MD5 | approx. 1 m ² | | min. 37 | 6...20 |
| MD10 | approx. 2 m ² | Clamp on top | min. 40 | 8...26.7 |
| | | Clamp on bottom* | min. 20 | 8...20 |
| MD20 | approx. 4 m ² | Clamp on top | min. 42 | 10...20 |
| | | Clamp on bottom | min. 20 | 10...20 |
| MD40 | approx. 8 m ² | Clamp on top | min. 42 | 14...26 |
| | | Clamp on bottom | min. 20 | 14...26 |

* Optional accessory K-MD10 part number 914-1062-000 For damper actuator accessories see page 78.