MD20B-24/-230



On/Off or 3-point 24 V AC/230 V AC Damper Actuator 20 Nm (180 in-lb)

MD20B series damper actuators for operating air control dampers in ventilation and air-conditioning systems for building services installations

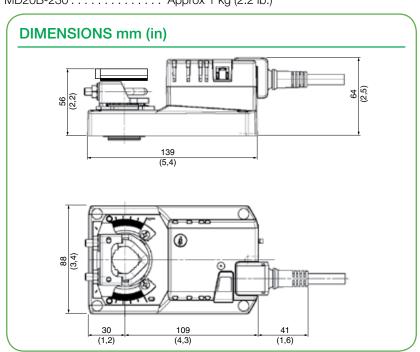
- For air control dampers up to approx. 4 m² (4.8 yard²)
- Torque 20 Nm (180 in-lb)
- Nominal voltage AC/DC 24 V or 230 V
- Control: On/Off or 3-point

SPECIFICATIONS

Doub course our
Part numbers
MD20B-230
MD20B-24875-1025-000
Power supply
MD20B-24
24 V DC ±20%
MD20B-230 230 V AC –56% to +15%, 50–60 Hz
Power consumption
In operation
MD20B-24 2 W @ nominal torque
MD20B-230 2.5 W @ nominal torque
At rest
MD20B-24
MD20B-230
For wire sizing
MD20B-244 VA
MD20B-230
Connection cable 1 m (3.3 ft), 3×0.75 mm ²
(AWG 18)
Angle of rotation max. 95°
(adjustable by mechanical stops)
Torque min. 20 Nm (180 in-lb) @ nominal voltage
Running time150 s
Direction of rotation Reversible with switch
Position indication mechanical
Standards conformity
EMC
2004/108/EC
LVD 2006/95/EC (230 V only)
Protection class
MD20B-24 III Safety extra-low voltage

MD20B-230 II Totally insulated

Enclosure rating
Ambient humidity 95% r.H (EN 60730-1)
Ambient temperature
Operation30 to +50 °C (-22 to +122 °F)
Storage40 to +80 °C (-40 to +176 °F)
Sound power leve
MaintenanceMaintenance-free
Weight
MD20B-24 Approx 1 kg (2.2 lb.)
MD20B-230 Approx 1 kg (2.2 lb.)



Damper spindle (in.)	Length mm (in.)	OĬ♦ mm
Clamp on top	min. 48 (1.89)	10 20 (0.39 0.78)
Clamp on bottom	min. 20 (0.78)	10 20 (0.39 0.78)



FUNCTION

Simple direct mounting

Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

Manual override

Manual operation is possible with the selfresetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed or detented).

Adjustable angle of rotation

Adjustable angle of rotation with mechanical end stops.

High functional reliability

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

SAFETY NOTES



The damper actuator is not allowed to be used outside the specified field of application, especially in aircraft.

Caution: 230 V voltage!

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 cables 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.

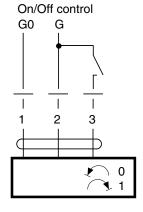


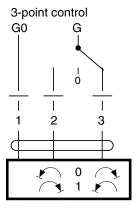
The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.

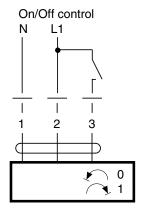
WIRING

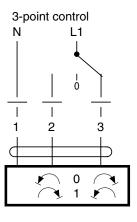


Direction of rotation









WIRING

MD20B-230



Caution: 230 V voltage!

Other actuators can be connected in parallel. Please not the performance data.

MD20B-24



Connection via safety isolating transformer.

Other actuators can be connected in parallel. Please not the performance data.

ACCESSORIES

Please refer to data sheet G-30-90

"Accessories Damper Actuators" (part. no. 0-003-2251).

On October 1st, 2009, TAC became the Buildings Business of its parent company Schneider Electric. This document reflects the visual identity of Schneider Electric, however there remains references to TAC as a corporate brand in the body copy. As each document is updated, the body copy will be changed to reflect appropriate corporate brand changes.