

MD20B-24-230

3-point Damper Actuator



Product Description

MD20B series damper actuators operate as 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 24 Vac/dc or 230 Vac
- Control: On/Off or 3-point

Specifications

Part numbers	
MD20B-230	875-1021-000
MD20B-24	875-1025-000
Power supply	
MD20B-24	24 Vac ±20%, 50–60 Hz, 24 Vdc ±20%
MD20B-230	230 Vac –60% to +15%, 50–60 Hz
Power consumption In operation	
MD20B-24	2 W @ nominal torque
MD20B-230	2.5 W @ nominal torque
At rest	
D20B-24	0.2 W
MD20B-230	0.6 W
For wire sizing	
MD20B-24	.4 VA
MD20B-230	.6 VA
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

Features

- Simple Direct Mounting mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.
- Manual operation is possible with the self- resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed or detented).
- 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.

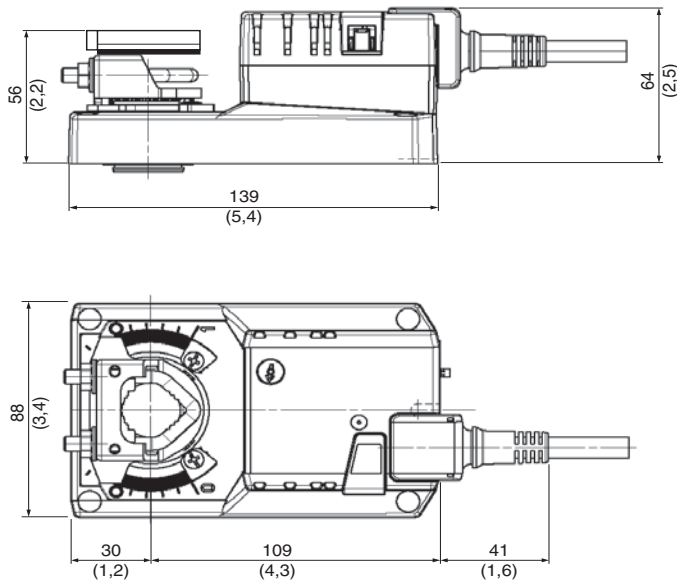
Running time or duty cycle	150 s
Direction of rotation	Reversible with switch
Position indication	mechanical
Standards Conformity	
EMC, emission	SS EN 50081-1
EMC, immunity	SS EN 50082-1
LVD Safety; MD20B-230	SS EN 60335-1
Protection class	
MD20B-24	III Safety extra-low voltage
MD20B-230	II Totally insulated
Enclosure rating	IP 54
Ambient humidity	95% r.H (EN 60730-1)
Ambient temperature	
Operation	–30...+50 °C (–22...+122 °F)
Storage	–40...+80 °C (–40...+176 °F)
Sound power level	max. 45 dB (A)
Maintenance	Maintenance-free
Weight	
MD20B-24	Approx 1 kg (2.2 lb.)
MD20B-230	Approx 1,05 kg (2.3 lb.)

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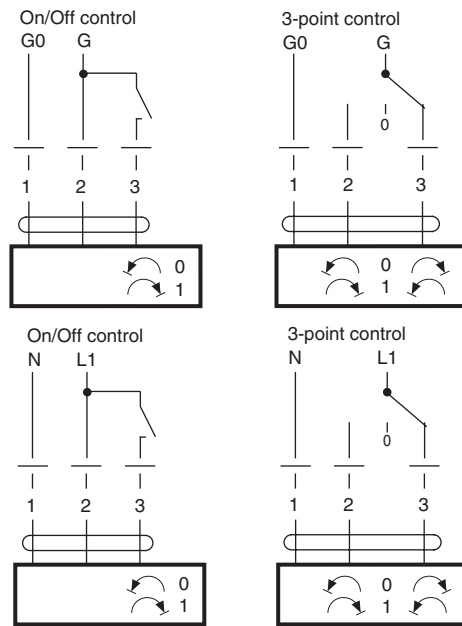
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Dimensions mm (in)



Direction of Rotation



Damper spindle	Length mm (in.)	$\text{O}\text{I}\text{◇}$ mm (in.)
Clamp on top	min. 42 (1.65)	10...20 (0.39...0.78)
Clamp on bottom	min. 20 (0.78)	10...20 (0.39...0.78)

Application Considerations

Schneider Electric damper actuators are intended for HVAC use only, and shall not be used in other applications without express written consent.

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.

Wiring

NOTE: 230 V voltage.

⚠ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK

- Follow safe electrical work practices and applicable local codes.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Read, understand and follow the instructions before installing this product.
- Turn off all power supplying equipment before working on or inside the equipment.
- Use a properly rated voltage sensing device to confirm power is off.

DO NOT DEPEND ON THIS PRODUCT FOR VOLTAGE INDICATION

Failure to follow these instructions will result in death or serious injury.

A qualified person is one who has skills and knowledge related to the construction and operation of this electrical equipment and the installation, and has received safety training to recognize and avoid the hazards involved. NEC2011 Article 100
No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

Line voltage operated models must be installed and serviced by qualified personnel. 24 V models shall be powered via a transformer or similar power source providing safety isolation from the mains voltage. Refer to appropriate installation guide for further information. Actuators may be connected in parallel to increase operating torque. Please refer to the performance data.

Accessories

Please refer to data sheet G-30-90 "Accessories Damper Actuators" 0-003-2251.