

# MD20A - 24

## Modulating Damper Actuator 20 Nm (180 in-lb)



### Product Description

MD20A-24 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 m<sup>2</sup> (4.8 yard<sup>2</sup>)
- Torque 20 Nm (180 in-lb)
- Nominal voltage 24 Vac/dc
- Control: Modulating 0...10 V
- Position feedback: 2...10 V

### Features

- The actuator is controlled by means of a standard control signal 2...10 Vdc. It opens to the position dictated by this signal. The measuring voltage Y allows the damper position (0 ... 100%) to be electrically indicated and serves as a follow-up control signal for other actuators.
- 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 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.

### Specifications

Part number	875-1029-000
Power supply	24 Vac $\pm$ 20%, 50–60 Hz, 24 Vdc $\pm$ 20%
Power consumption	
In operation	2 W @ nominal torque
At rest	0.4 W
For wire sizing	4 VA
Connection cable	1 m (3.3 ft), 4×0.75 mm <sup>2</sup> (AWG 18)
Control signal X	0...10 Vdc
Input resistance	100 k Ohm
Operating range	2...10 Vdc (for set angle of rotation)
Synchronisation tolerance	$\pm$ 5%
Position feedback Y	2...10 V DC (max. 1 mA)
Direction of rotation	Reversible with switch 0 / 1 at switch position 0 ↺ resp. 1 ↻
Angle of rotation	max. 95° (adjustable by mechanical stops)

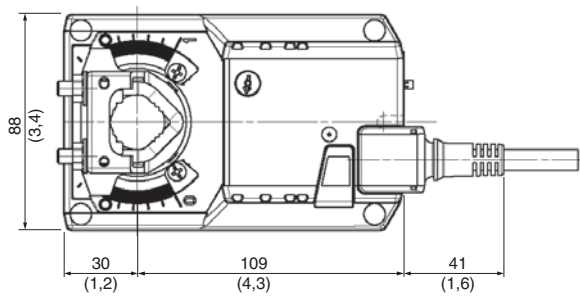
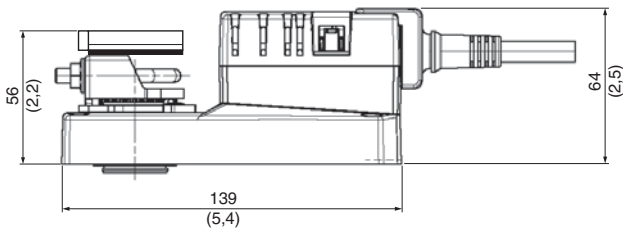
Torque	min. 20 Nm (180 in-lb) @ nominal voltage
Running time	150 s
Position indication	Mechanical
Manual override	Gearing latch disengaged with pushbutton, self-resetting, manual locking
Standards conformity	
EMC, emission	SS EN 50081-1
EMC, immunity	SS EN 50082-1
Protection class	III Safety extra-low voltage
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	Approx 1.05 kg (2.3 lb.)

North America (USA): +1 888 444 1311  
 Europe, Middle East & Africa (Sweden): +46 10 478 2000  
 Asia Pacific (Singapore): +65 6484 7877  
 product.support@schneider-electric.com  
 www.schneider-electric.com

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## Dimensions mm (inch)



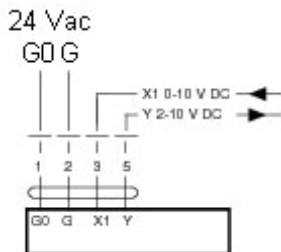
Damper spindle (in.)	Length mm (in.)	$\text{O I } \diamond \text{ mm}$
Clamp on top	min. 42 (1.65)	10 ... 20 (0.39 ... 0.78)
Clamp on bottom	min. 20 (0.78)	10 ... 20 (0.39 ... 0.78)

## Wiring

**NOTE:** Connection via safety isolating transformer.

Measuring voltage Y for position indication or as master-slave signal.

Parallel connection of several actuators is possible. Power consumption must be observed.



## Accessories

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