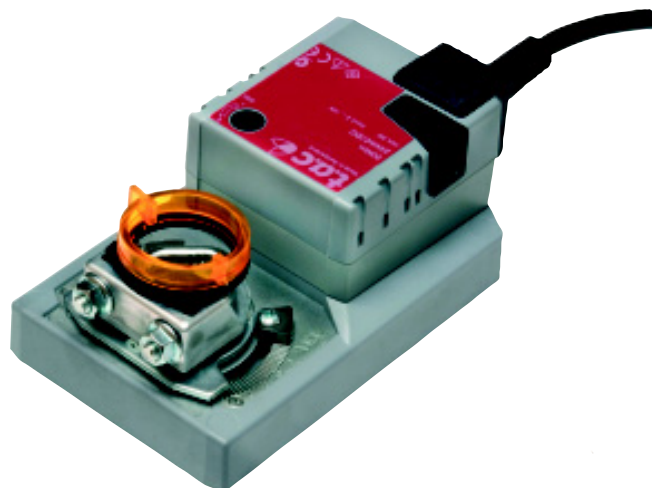


MD40A-24 damper actuators for operating air control dampers in ventilation and air-conditioning systems for building services installations

- For air control dampers up to approx. 8 m² (9.6 yard²)
- Torque 40 Nm (360 in-lb)
- Nominal voltage AC/DC 24 V
- Control: Modulating 0 – 10 V
- Position feedback: 2 – 10 V



TECHNICAL SPECIFICATION

Part number 875-1039-000
Power supply 24 V AC $\pm 20\%$, 50–60 Hz,
24 V DC $\pm 20\%$

Power consumption:

In operation 4 W @ nominal torque
At rest 2 W
For wire sizing 6.5 VA
Connection cable 1 m (3.3 ft), 4 $\times$ 0.75 mm² (AWG 18)
Control signal X 0–10 V DC
Input resistance 100 k Ohm
Operating range 2–10 V DC (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 $\curvearrowright$ resp. 1 $\curvearrowleft$

Angle of rotation max. 95°
(adjustable by mechanical stops)

Torque min. 40 Nm (360 in-lb) @ nominal voltage
Running time 150 s
Position indication mechanical
Manual override Gearing latch disengaged with
pushbutton, self-resetting, manual locking

Standards conformity:

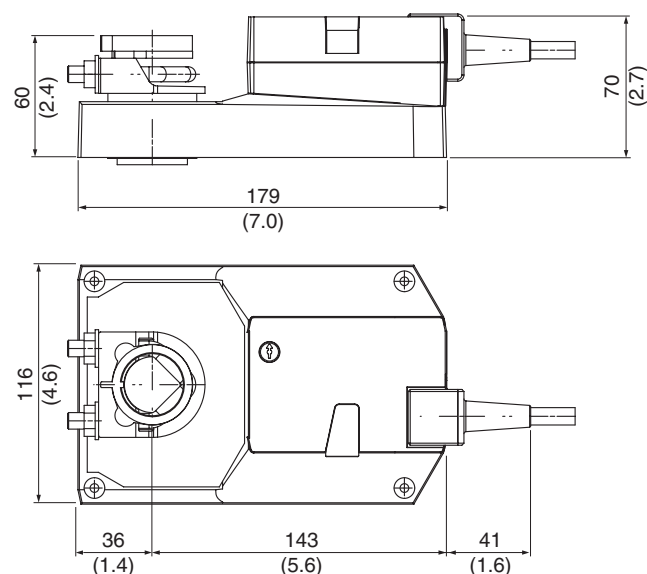
EMC, emission SS EN 50081-1
EMC, immunity SS EN 50082-1
Protection class III Safety extra-low voltage
Enclosure rating IP 54

Ambient humidity 95% r.H (EN 60730-1)

Ambient temperature:

Operation –30 to +50 °C (–22 to +122 °F)
Storage –40 to +80 °C (–40 to +176 °F)
Sound power level max. 45 dB (A)
Maintenance Maintenance-free
Weight Approx 1,7 kg (3.8 lb.)

Dimensions in mm (inches)



Damper spindle	Length mm (in.)	Ø mm (in.)
Clamp on top	min. 42 (1.65)	14 ... 26 (0.55 ... 1.02)
Clamp on bottom	min. 20 (0.78)	14 ... 26 (0.55 ... 1.02)

FUNCTION

Mode of operation

The actuator is controlled by means of a standard control signal DC 2–10 V. 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

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 self-resetting 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.

WIRING

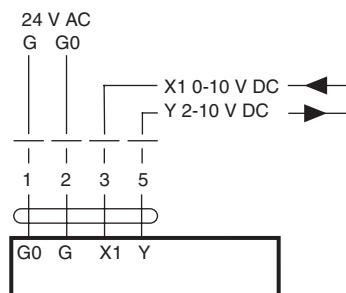


Connection via safety isolating transformer.

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

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

MD40A-24



ACCESSORIES

Please refer to data sheet G-30-90

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

SAFETY NOTES



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