



MD5B -24(-S)/-230(-S)

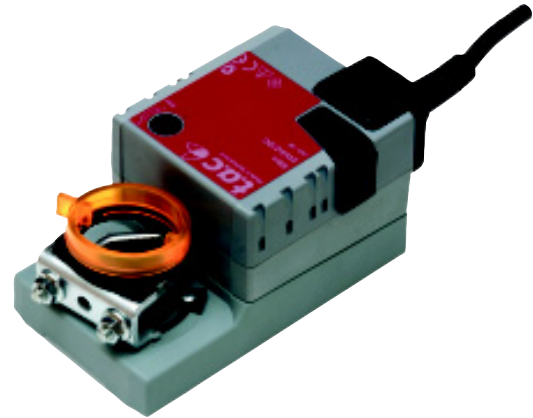
G-30-41

On/Off or 3-point 24 V AC/230 V AC
Damper Actuator 5 Nm (45 in-lb)

6 February 2006

MD5B 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. 1 m² (1.2 yard²)
- Torque 5 Nm (45 in-lb)
- Nominal voltage AC/DC 24 V or 230V
- Control: On/Off or 3-point
- Option Integrated auxiliary switch



TECHNICAL SPECIFICATION

Part numbers:

MD5B-230	875-1001-000
MD5B-230-S	875-1003-000
MD5B-24	875-1005-000
MD5B-24-S	875-1007-000

Power supply:

MD5B-24(-S)	24 V AC ±20%, 50–60 Hz, 24 V DC ±20%
MD5B-230(-S)	230 V AC –60% to +15%, 50–60 Hz

Power consumption:

In operation:	MD5B-24(-S)	1 W @ nominal torque
	MD5B-230(-S)	1.5 W @ nominal torque
At rest:	MD5B-24(-S)	0.2 W
	MD5B-230(-S)	0.4 W
For wire sizing:	MD5B-24(-S)	1.5 VA
	MD5B-230(-S)	3.5 VA

Auxiliary switch 1×EPU, 1 mA...3 (0.5) A, 250 V AC
Switching point (adjustable 0–100%)

Connection cable:

Actuator	1 m (3.3 ft), 3×0.75 mm ² (AWG 18)
Auxiliary switches (-S) ..	1 m (3.3 ft), 3×0.75 mm ² (AWG 18)

Angle of rotation max. 95° (adjustable by mechanical stops)
Torque min. 5 Nm (45 lb-in) @ nominal voltage
Running time 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; MD5B-230(-S)	SS EN 60335-1

Damper spindle	Length mm (in.)	Ø I◇ mm (in.)
	min. 37 (1.46)	6 ... 20 (0.2 ... 0.78)

Protection class:

MD5B-24(-S)	III Safety extra-low voltage
MD5B-230(-S)	II Totally insulated

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)

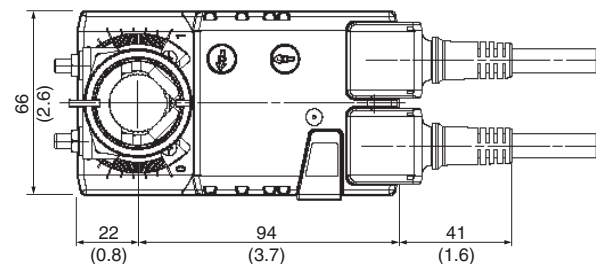
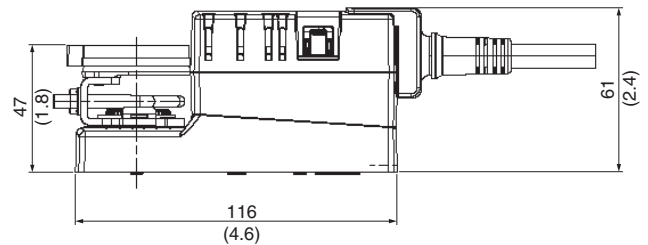
Sound power level max. 35 dB (A)

Maintenance Maintenance-free

Weight:

MD5B-24(-S)	Approx 0.6 kg (1.3 lb.)
MD5B-230(-S)	Approx 0.4kg (0.9 lb.)

Dimensions in mm (inches)



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 self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed or detented).

High functional reliability

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

Adjustable angle of rotation

Adjustable angle of rotation with mechanical end stops.


Flexible signalization

Flexible signalization with adjustable auxiliary switch (0 ... 100%).

WIRING


MD5B-230(-S)

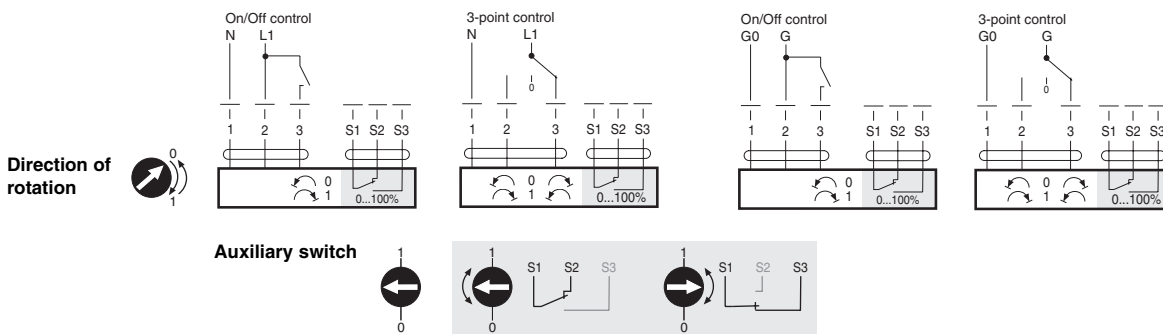
Note

- Caution: 230 V voltage! 
- Other actuators can be connected in parallel. Please note the performance data.

MD5B-24(-S)

Note

- Connection via safety isolating transformer. 
- Other actuators can be connected in parallel. Please note the performance data.



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-
- 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.