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



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

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

SPECIFICATIONS

Part numbers:
MD5B-230875-1001-000
MD5B-230-S
MD5B-24875-1005-000
MD5B-24-S
Power supply:
MD5B-24(-S)
24 V DC ±20%
MD5B-230(-S) 230 V AC -56% to +15%, 50-60 Hz
Power consumption:
In operation:
1 W @ nominal torque MD5B-24(-S)
1.5 W @ nominal torque MD5B-230(-S)
At rest:
MD5B-230(-S) 0.4 W
For wire sizing: MD5B-24(-S) 2.0 VA
MD5B-230(-S) 4.0 VA
Auxiliary switch . 1×EPU, 1 mA3 (0.5) A, 250 V AC
Switching point(adjustable 0–100%)
Connection cable:
Actuator 1 m (3.3 ft), 3×0.75 mm2 (AWG 18)
Auxiliary switches (-S)
3×0.75 mm2 (AWG 18)

Angle of rotation max. 95°

Direction of rotation Reversible with switch Position indication mechanical

EMC.....

Standards conformity:

2004/108/EC

(adjustable by mechanical stops)

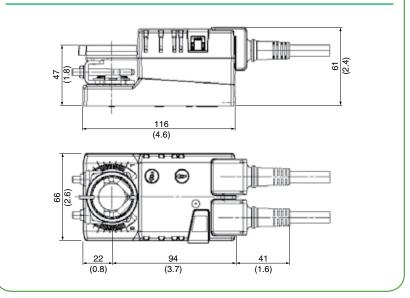
I V / D						2006/0F/FC	(000 \	ار دامه ا
LVD	 					2006/95/EC	(Z3U V	Of IIy)

Protection class:

MD5B-24(-S)	III Safety extra-low voltage
MD5B-230(-S) .	II Totally insulated
Enclosure rating	IP 54
Ambient humidity	y
Ambient tempe	rature:
Operation	30 to +50 °C (-22 to +122 °F)
Storage	–40 to +80 °C (–40 to +176 °F)
0 1	05 10 (4)

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

DIMENSIONS mm (in)



Damper spindle (in.)	Length mm (in.)	OŢ♦ mm			
	min. 37 (1.46)	6 20 (0.2 0.78)			



FUNCTION

Simple direct mounting

Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an antirotation 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.

Flexible signalization

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

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.

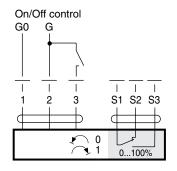


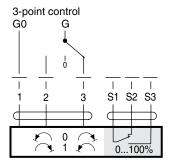
The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.

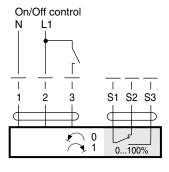
WIRING

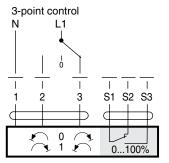


Direction of rotation











Auxilary switch

WIRING

MD5B-230(-S)



Caution: 230 V voltage!

Other actuators can be connected in parallel. Please note the performance data.

MD5B-24(-S)



Connection via safety isolating transformer!

Other actuators can be connected in parallel. Please note the performance data.

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.

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