MD5B-24(-S)/-230(-S)
3-point Damper Actuator

Product Description

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 24 Vac/dc or 230V
- Control: On/Off or 3-point
- Option Integrated auxiliary switch

Features

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

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 –56% 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	0.2 W
MD5B-24(-S)	0.4 W
MD5B-230(-S)	
	2.0 VA
For transformer sizing	4.0 VA
MD5B-24(-S)	
MD5B-230(-S)	

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 mm2 (AWG 18)
Auxiliary switches (-S)	1 m (3.3 ft), 3×0.75 mm2 (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	2004/108/EC
LVD	2006/95/EC (230 V only)
Protection class	
MD5B-24(-S)	III Safety extra-low voltage
MD5B-230(-S) Enclosure	II Totally insulated
rating	IP 54

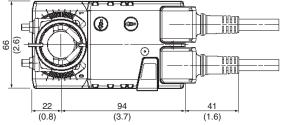| Ambient humidity	95% r.H (EN 60730-1)
Ambient temperature	
Operation	–30 to +50 °C (–22 to +122 °F)
Storage	–40 to +80 °C (–40 to +176 °F)
Sound power level	max. 35 dB (A)
Maintenance	Maintenance-free
Weight	
MD5B-24(-S)	Approx 0.6 kg (1.3 lb.)Approx 0.6 kg
MD5B-230(-S)	(1.3 lb.)

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Dimensions mm (in)

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

Wiring

MD5B-230(-S) (230 V)

⚡ ⚠ 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.

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

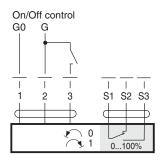MD5B-24(-S)

Connection via safety isolating transformer!

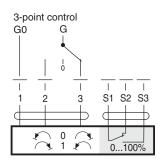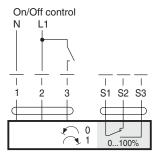Other actuators can be connected in parallel. Please note the performance data.

Accessories

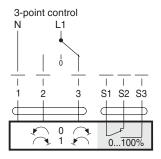Please refer to data sheet G-30-90 "Accessories Damper Actuators" 0-003-2251.

Direction of rotation

On/Off control

3-point control

On/Off control

3-point control

Auxilary switch