

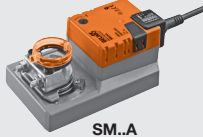



Nominal torque	5 Nm	10 Nm	20 Nm	40 Nm
	1 m ²	2 m ²	4 m ²	8 m ²
Damper size up to approx.				
Nominal voltage 24 V AC/DC 230 V AC	 LM..A	 NM..A	 SM..A	 GM..A
Auxiliary switch SPDT				

Open-close, 3-point

		Open-close			
24 V	1	LM24A	NM24A	SM24A	GM24A
		LM24A-S	NM24A-S	SM24A-S	
230 V	1	LM230A	NM230A	SM230A	GM230A
		LM230A-S	NM230A-S	SM230A-S	

Modulating (2–10 V) ¹⁾

24 V		LM24A-SR	NM24A-SR	SM24A-SR	GM24A-SR
230 V		LM230ASR	NM230ASR	SM230ASR	

Parameterisable ²⁾

24 V		LM24A-MP	NM24A-MP	SM24A-MP	GM24A-MP
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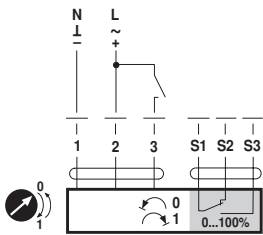
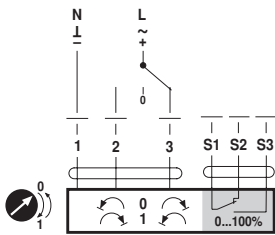
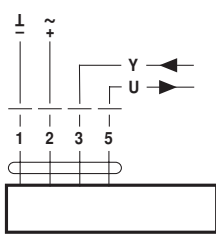
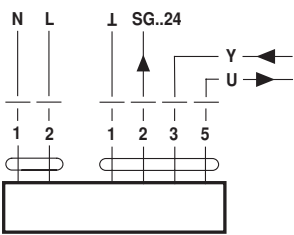
Technical data

Spindle diameter	6–20 mm	8–26.7 mm	10–20 mm	12–26.7 mm
Running time motor 90°	150 s	150 s	150 s	150 s
Manual override	Gear disengagement with push-button, can be locked	Gear disengagement with push-button, can be locked	Gear disengagement with push-button, can be locked	Gear disengagement with push-button, can be locked
Connection	Connecting cable 1 m	Connecting cable 1 m	Connecting cable 1 m	Connecting cable 1 m
Direction of rotation	Can be selected with switch	Can be selected with switch	Can be selected with switch	Can be selected with switch
Angle of rotation	max. 95°, can be limited at both ends with adjustable mechanical end stops	max. 95°, can be limited at both ends with adjustable mechanical end stops	max. 95°, can be limited at both ends with adjustable mechanical end stops	max. 95°, can be limited at both ends with adjustable mechanical end stops
Position indication	Mechanical, plug-in	Mechanical, plug-in	Mechanical, plug-in	Mechanical, plug-in
Sound power level	≤35 dB(A) @ 150 s	≤35 dB(A) @ 150 s	≤45 dB(A) @ 150 s	≤45 dB(A) @ 150 s
Degree of protection	IP 54	IP 54	IP 54	IP 54
EMC	CE according to 2004/108/EC	CE according to 2004/108/EC	CE according to 2004/108/EC	CE according to 2004/108/EC
Ambient temperature	–30...+50 °C	–30...+50 °C	–30...+50 °C	–30...+50 °C
Non-operating temperature	–40...+80 °C	–40...+80 °C	–40...+80 °C	–40...+80 °C
Ambient humidity	95% r.h., non-condensating	95% r.h., non-condensating	95% r.h., non-condensating	95% r.h., non-condensating

¹⁾ Modulating actuators: control signal Y = DC 0–10 V, 100 kΩ; operating range 2–10 V / position feedback U = DC 2–10 V, max. 1 mA.

²⁾ Control, operating range, position feedback, running time and further functions can be set on MP types with PC-Tool or the parameterising device ZTH EU. Other versions on request.

Electrical installation

Open-close	3-point	Modulating	Parameterisable	Modulating
..M24A, ..M24A-S, ..M230A, ..M230A-S	..M24A, ..M24A-S, ..M230A, ..M230A-S	..M24A-SR	..M24A-MP	..M230ASR
	(for GM..A not permitted) 	Y = DC 0–10 V U = DC 2–10 V 	Y = Control signal U = Position feedback 	Y = DC 0–10 V U = DC 2–10 V 