

Damper Actuators - (Spring / SuperCap Return)

MD20 SR

The MD20 SR is a compact spring return damper actuator for the operation of ventilation dampers up to 4m² in building service installations



Specification

Motor Torque	Min. 20Nm @ Nominal Voltage
Spring Return	Min. 20Nm
Running Time, Motor	
Modulating	≤150 s
On/off	≤75 s
Spring Return	≤20 s
Control Signal, modulating	2...10 Vdc
Input Resistance	100 kΩ
Position Feedback (Y)	2...10 Vdc, max. 0.5mA
Position accuracy	+/- 5%
Cable Size	1m, 0.75 mm ²
-24M,	4 x 0.75 mm ²
-T,-24T	2 x 0.75 mm ²
S2 versions	2+6 x 0.75 mm ²
Direction of Rotation	
Motor	Reversible with Switch I/O
Spring return	via mounting orientation, L / R
Manual Override	5mm Hex key crank, supplied

	plus interlocking switch
Adjustable angle of rotation	0...Max 95°
Position indication	Mechanical
Protection Class	
24 V versions	III Extra low Voltage
230 V Versions	II Totally insulated
Degree of Protection	IP54
Environmental	
Operational Temperature	-30°C...+ 50°C
Storage temperature (non operation)	-40°C...+ 80°C
Ambient Humidity	95% r.h. Non condensing
Sound power level	
Motor	≤40 dB (mod.) ≤45dB (on/off)
Spring return	≤62 dB
Service Life	Min.60,000 emergency positions
Maintenance	Maintenance free
Weight	approx. 2.1Kg

Part number	Type Designation	Torque Nm	Power Supply	Power Consumption			Control Signal
				In Operation	At Rest	For wire sizing	
MD20SR-T	MD20 SR-24/240T 1M54 00	20	24...240 Vac / 24...125 Vdc	6.5W	3.3W	18VA	On/Off
MD20SR-TS	MD20 SR-24/240TS 1M54 00	20	24...240 Vac / 24...125 Vdc	6.5W	3.3W	18VA	On/Off
MD20SR-24T	MD20 SR-24T 1M54 00	20	24 Vac/Vdc	5W	2.5W	7.5VA	On/Off
MD20SR-24TS	MD20 SR-24TS 1M54 00	20	24 Vac/Vdc	5W	2.5W	7.5VA	On/Off
MD20SR-24M	MD20 SR-24M 1M54 00	20	24 Vac/Vdc	5W	3W	7VA	2...10 V Mod.

For damper actuator accessories see page 78.

Spindle Clamp

Damper Spindle Attachment		Spindle Length	Spindle Diameter	Spindle Diameter	Spindle Diameter
			●	■	◆
Clamp on Top	With Insert	≥85 mm	10...22 mm	10 mm	14...25.4 mm
	Without Insert		19...25.4 mm	12...18 mm	
Clamp on Bottom	With Insert	≥15 mm	10...22 mm	10 mm	14...25.4 mm
	Without Insert		19...25.4 mm	12...18 mm	