

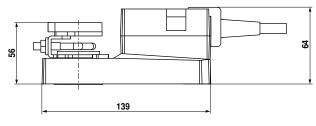
Damper actuator for adjusting air dampers in ventilation and air-conditioning systems for building services installations

- Torque 20Nm
- Nominal voltage AC/DC 24V
- Control: Open-close or 3-point



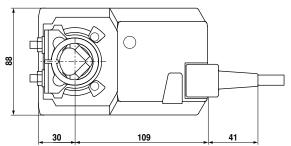
Technical data				
Electrical data	Nominal voltage		AC 24V, 50/60Hz / DC 24V	
	Nominal voltage		AC 19.228.8V / DC 21.628.8V	
	Power	In operation	2W @ nominal torque	
	consumption	At rest	0.2W	
		For wire sizing	4VA	
	Connection		Cable 1m, 3 x 0.75mm ²	
Functional data	Torque (nomina	I torque)	Min. 20Nm @ nominal voltage	
	Direction of rota	tion	Reversible with switch 0 resp. 1	
	Manual override)	Gearing latch disengaged with pushbutton, can be locked	
	Angle of rotation	ı	Max. 95°⊲, can be limited at both ends with adjustable mechanical end stops	
	Running time		150s / 90°⊲	
	Sound power le	vel	Max. 45dB(A)	
	Position indicati	on	Mechanical, pluggable	
Safety	Protection class		III Safety extra-low voltage / UL Class 2 Supply	
·	Degree of prote	ction	IP54 in any mounting position	
			NEMA 2, UL Enclosure Type 2	
	EMC		CE according to 2004/108/EC	
	Certification		cULus according to UL 60730-1A and UL 60730-2-14	
			and CAN/CSA E60730-1:02	
			Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14	
	Mode of operati		Type 1	
	Rated impulse v		0.8kV	
	Control pollution	0	3	
	Ambient temperature range Non-operating temperature Ambient humidity range		-30+50°C	
			-40+80°C	
			95% r.h., non-condensating	
	Maintenance		Maintenance-free	
Dimensions / Weight	Dimensions		See «Dimensions»	
	Weight		Approx. 1.1kg	

Dimensions [mm]



Damper spindle	Length	O <u>Ī</u>		<u>♦</u> <u>ī</u>
	≥48	1020 1)	≥10	≤20
-	≥20	1020 1)	≥10	≤20

¹⁾ CrNi (INOX) 12...20





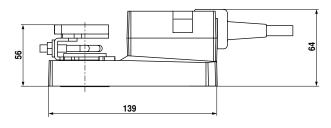
Damper actuator for adjusting air dampers in ventilation and air-conditioning systems for building services installations

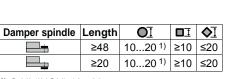
- Torque 20Nm
- Nominal voltage AC/DC 24V
- Control: Open-close or 3-point
- with integrated auxiliary switch

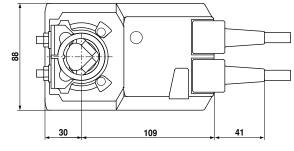


Technical data					
Electrical data	Nominal voltage		AC 24V, 50/60Hz / DC 24V		
a	Nominal voltage		AC 19.228.8V / DC 21.628.8V		
	Power consumption	In operation At rest	2W @ nominal torque 0.2W 4VA		
	Auxiliary switch	For wire sizing	1 x SPDT, 1mA3 (0.5) A, AC 250V (0100% adjustable)		
	Connection	Motor Auxiliary switch	Cable 1m, 3 x 0.75mm ² Cable 1m, 3 x 0.75mm ²		
Functional data	Torque (nominal	torque)	Min. 20Nm @ nominal voltage		
	Direction of rota	tion	Reversible with switch 0 resp. 1		
	Manual override		Gearing latch disengaged with pushbutton, can be locked		
	Angle of rotation		Max. 95°, can be limited at both ends with adjustable mechanical end stops		
	Running time		150s / 90°⊲		
	Sound power level		Max. 45dB(A)		
	Position indication	on	Mechanical, pluggable		
Safety	Protection class		III Safety extra-low voltage / UL Class 2 Supply		
	Degree of prote	ction	IP54 in any mounting position NEMA 2, UL Enclosure Type 2		
	EMC		CE according to 2004/108/EC		
	Certification Mode of operation		cULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14		
			Type 1		
	Rated impulse voltage		0.8kV		
	Control pollution degree Ambient temperature range		3		
			−30+50°C		
	Non-operating to	emperature	–40+80°C		
	Ambient humidity range		95% r.h., non-condensating		
	Maintenance		Maintenance-free		
Dimensions / Weight	Dimensions		See «Dimensions»		
	Weight		Approx. 1.2kg		

Dimensions [mm]









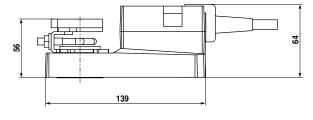
Modulating damper actuator for adjusting air dampers in ventilation and air-conditioning systems for building services installations

- Torque 20Nm
- Nominal voltage AC/DC 24V
- Control: Modulating DC (0)2...10V
- Position feedback DC 2...10V

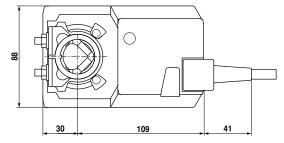


Electrical data Nominal voltage AC 24V, 50/60Hz / DC 24V Nominal voltage range AC 19.228.8V / DC 21.628.8V Power In operation 2W @ nominal torque consumption At rest 0.4W For wire sizing 4VA Connection Cable 1m, 4 x 0.75mm² Functional data Torque (nominal torque) Min. 20Nm @ nominal voltage Control Control signal Y DC (0)210V, typical input impedance 100kΩ Operating range Dc 210V, max. 1mA Position accuracy ±5% Direction of rotation Reversible with switch 0 / 1 Direction of rotation Reversible with switch 0 / 1 Direction of motion at Y = 0 V In switch position 0 → resp. 1 → Manual override Gearing latch disengaged with pushbutton, can be locked Angle of rotation Max. 95°-3, can be limited at both ends with adjustable mechanical end stops Running time 150s / 90°-3 Sound power level Max. 45dB(A) Position indication Mechanical, pluggable Safety Degree of protection Mechanical, pluggable Ill Safety extra-low voltage / UL Class 2 Supply Degree of protection PS4 in any mounting position NEMA 2, UL Enclosure Type 2 EMC CE according to 2004/108/EC Certification UL so 2004/108/EC Certification Type 1 Mode of operation Type 1 Mode of operation Type 1 Rated impulse voltage 0.8kV Control pollution degree 3					
Nominal voltage range AC 19.228.8V / DC 21.628.8V Power In operation 2W @ nominal torque consumption At rest 0.4W For wire sizing 4VA Connection Cable 1m, 4 x 0.75mm² Torque (nominal torque) Min. 20Nm @ nominal voltage Control Control signal Y Operating range DC (210V, typical input impedance 100kΩ Position feedback (Measuring voltage U) DC 210V, typical input impedance 100kΩ Position accuracy ±5% Direction of rotation Reversible with switch 0 / 1 Direction of motion at Y = 0 V In switch position 0	Technical data				
Power consumption In operation At rest consumption 2W @ nominal torque Functional data Torque (nominal torque) Cable 1m, 4 x 0.75mm² Functional data Torque (nominal torque) Min. 20Nm @ nominal voltage Control signal Y Operating range DC (0)210V, typical input impedance 100kΩ Position feedback (Measuring voltage U) DC 210V, max. 1mA Position of rotation Reversible with switch 0 / 1 Direction of motion at Y = 0 V In switch position 0 / 3 resp. 1/ 3 Manual override Gearing latch disengaged with pushbutton, can be locked Angle of rotation Max. 95°⊲, can be limited at both ends with adjustable mechanical end stops Running time 150s / 90°⊲ Sound power level Max. 45dB(A) Position indication Mechanical, pluggable Bafety Protection class Ill Safety extra-low voltage / UL Class 2 Supply Degree of protection IP54 in any mounting position NEMA 2, UL E	Electrical data	Nominal voltage		AC 24V, 50/60Hz / DC 24V	
consumption At rest For wire sizing 0.4W 4VA Connection Cable 1m, 4 x 0.75mm² Functional data Torque (nominal torque) Min. 20Nm @ nominal voltage Control signal Y Operating range DC (0)210V, typical input impedance 100kΩ Position feedback (Measuring voltage U) DC 210V, max. 1mA Position accuracy ±5% Direction of rotation Reversible with switch 0 / 1 Direction of motion at Y = 0 V In switch position 0 1 resp. 1 1 resp. Manual override Gearing latch disengaged with pushbutton, can be locked Angle of rotation Max. 95° < , can be limited at both ends with adjustable mechanical end stops Running time 150s / 90° < Sound power level Max. 45dB(A) Position indication Mechanical, pluggable Safety Protection class Ill Safety extra-low voltage / UL Class 2 Supply Degree of protection IP54 in any mounting position		Nominal voltage	range	AC 19.228.8V / DC 21.628.8V	
Functional data Torque (nominal torque) Control Signal Y Operating range Operating range Position feedback (Measuring voltage U) DC 210V, typical input impedance 100kΩ Dc 210V Position accuracy 15% Direction of rotation Reversible with switch 0 / 1 Direction of motion at Y = 0 V In switch position 0 ▼ resp. 1 ▼ Manual override Gearing latch disengaged with pushbutton, can be locked Angle of rotation Max. 95° ◄, can be limited at both ends with adjustable mechanical end stops Running time 150s / 90° ◄ Sound power level Max. 45dB(A) Position indication Mechanical, pluggable Frotection class Ill Safety extra-low voltage / UL Class 2 Supply Degree of protection IP54 in any mounting position NEMA 2, UL Enclosure Type 2 EMC Certification CULus according to 2004/108/EC Certified to IEC/EN 60730-1 and UL 60730-2-14 And CANI/CSA E60730-1 o2 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 Mode of operation Type 1 Rated impulse voltage 0.8kV		Power	In operation	2W @ nominal torque	
Functional data Torque (nominal torque) Control Signal Y Operating range DC (0)210V, typical input impedance 100kΩ DC 2210V Position feedback (Measuring voltage U) DC 210V, max. 1mA Position accuracy ±5% Direction of rotation Direction of motion at Y = 0 V Manual override Angle of rotation Running time Sound power level Sound power level Position indication Max. 95°⊲, can be limited at both ends with adjustable mechanical end stops Running time 150s / 90°⊲ Sound power level Max. 45dB(A) Position indication Mechanical, pluggable Frotection class Degree of protection NEMA 2, UL Enclosure Type 2 EMC Certification Cullus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 Mode of operation Type 1 Rated impulse voltage OCable 1m, 4 x 0.75mm² Min. 20Nm @ nominal voltage DC (2)10V, typical input impedance 100kΩ DC (2)10V, max. 1mA DC (2)10V, max. 1		consumption			
Functional data Torque (nominal torque) Min. 20Nm @ nominal voltage Control Control signal Y Operating range DC (0)210V, typical input impedance 100kΩ Position feedback (Measuring voltage U) DC 210V Position accuracy ±5% Direction of rotation Reversible with switch 0 / 1 Direction of motion at Y = 0 V In switch position 0 resp. 1 r			For wire sizing		
Control Control signal Y Operating range Position feedback (Measuring voltage U) DC 210V Position accuracy ±5% Direction of rotation Reversible with switch 0 / 1 Direction of motion at Y = 0 V In switch position 0 resp. 1 res		Connection		Cable 1m, 4 x 0.75mm ²	
Position feedback (Measuring voltage U) DC 210V Position accuracy ±5% Direction of rotation Reversible with switch 0 / 1 Direction of motion at Y = 0 V In switch position 0 resp. 1 resp.	Functional data	Torque (nominal	torque)	Min. 20Nm @ nominal voltage	
Position accuracy Direction of rotation Direction of motion at Y = 0 V Manual override Angle of rotation Reversible with switch 0 / 1 Max. 95°⟨¬, can be limited at both ends with adjustable mechanical end stops Running time 150s / 90°⟨¬ Sound power level Max. 45dB(A) Position indication Mechanical, pluggable Protection class III Safety extra-low voltage / UL Class 2 Supply Degree of protection IP54 in any mounting position NEMA 2, UL Enclosure Type 2 EMC CE according to 2004/108/EC Certification CULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 Mode of operation Type 1 Rated impulse voltage 0.8kV		Control			
Direction of rotation Direction of motion at Y = 0 V Manual override Angle of rotation Reversible with switch 0 / 1 Max. 95°¬, can be limited at both ends with adjustable mechanical end stops Running time Sound power level Max. 45dB(A) Position indication Mechanical, pluggable Protection class Ill Safety extra-low voltage / UL Class 2 Supply Degree of protection NEMA 2, UL Enclosure Type 2 EMC Certification Certification Mode of operation Reversible with switch 0 / 1 In switch position 0 / 1 seps. 1		Position feedbac	k (Measuring voltage U)	DC 210V, max. 1mA	
Direction of motion at Y = 0 V Manual override Gearing latch disengaged with pushbutton, can be locked Angle of rotation Max. 95°⊲, can be limited at both ends with adjustable mechanical end stops Running time Sound power level Position indication Mechanical, pluggable Protection class III Safety extra-low voltage / UL Class 2 Supply Degree of protection NEMA 2, UL Enclosure Type 2 EMC Certification Certification Mode of operation Rated impulse voltage O.8kV		Position accurac	у	±5%	
Manual override Gearing latch disengaged with pushbutton, can be locked Angle of rotation Max. 95°¬¬, can be limited at both ends with adjustable mechanical end stops Running time Sound power level Max. 45dB(A) Position indication Mechanical, pluggable Safety Protection class III Safety extra-low voltage / UL Class 2 Supply Degree of protection IP54 in any mounting position NEMA 2, UL Enclosure Type 2 EMC Ce according to 2004/108/EC Certification CULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 Mode of operation Type 1 Rated impulse voltage O.8kV		Direction of rotat	ion		
Iocked Angle of rotation Max. 95°⊲, can be limited at both ends with adjustable mechanical end stops Running time Sound power level Position indication Mechanical, pluggable Bafety Protection class Ill Safety extra-low voltage / UL Class 2 Supply Degree of protection IP54 in any mounting position NEMA 2, UL Enclosure Type 2 EMC Cet according to 2004/108/EC Cettification CULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 Mode of operation Rated impulse voltage O.8kV		Direction of motion	on at Y = 0 V	In switch position 0 🥆 resp. 1 🥆	
Angle of rotation Max. 95°⟨¬, can be limited at both ends with adjustable mechanical end stops Running time 150s / 90°⟨¬ Sound power level Max. 45dB(A) Position indication Mechanical, pluggable Protection class III Safety extra-low voltage / UL Class 2 Supply Degree of protection IP54 in any mounting position NEMA 2, UL Enclosure Type 2 EMC CE according to 2004/108/EC Certification CULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 Mode of operation Type 1 Rated impulse voltage 0.8kV		Manual override			
adjustable mechanical end stops Running time 150s / 90° < Sound power level Max. 45dB(A) Position indication Mechanical, pluggable Protection class III Safety extra-low voltage / UL Class 2 Supply Degree of protection IP54 in any mounting position NEMA 2, UL Enclosure Type 2 EMC CE according to 2004/108/EC Certification cULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 Mode of operation Type 1 Rated impulse voltage 0.8kV		-			
Running time Sound power level Max. 45dB(A) Position indication Mechanical, pluggable Protection class III Safety extra-low voltage / UL Class 2 Supply Degree of protection IP54 in any mounting position NEMA 2, UL Enclosure Type 2 EMC Certification Certification CULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 Mode of operation Type 1 Rated impulse voltage 750 0		Angle of rotation			
Sound power level Max. 45dB(A) Position indication Mechanical, pluggable Protection class III Safety extra-low voltage / UL Class 2 Supply Degree of protection IP54 in any mounting position NEMA 2, UL Enclosure Type 2 EMC CE according to 2004/108/EC Certification cULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 Mode of operation Type 1 Rated impulse voltage 0.8kV		Punning time		,	
Position indication Mechanical, pluggable Protection class III Safety extra-low voltage / UL Class 2 Supply Degree of protection IP54 in any mounting position NEMA 2, UL Enclosure Type 2 EMC CE according to 2004/108/EC Certification cULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 Mode of operation Type 1 Rated impulse voltage 0.8kV			1		
Protection class Degree of protection Degree of protection Degree of protection III Safety extra-low voltage / UL Class 2 Supply IP54 in any mounting position NEMA 2, UL Enclosure Type 2 EMC CE according to 2004/108/EC Certification CULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 Mode of operation Type 1 Rated impulse voltage 0.8kV					
Degree of protection IP54 in any mounting position NEMA 2, UL Enclosure Type 2 EMC Cetification Certification Culus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 Mode of operation Type 1 Rated impulse voltage O.8kV			on	·	
NEMA 2, UL Enclosure Type 2 EMC	Safety				
EMC CE according to 2004/108/EC Certification cULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 Mode of operation Type 1 Rated impulse voltage 0.8kV		Degree of protect	etion		
Certification CULus according to UL 60730-1A and UL 60730-2- 14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 Mode of operation Type 1 Rated impulse voltage 0.8kV				*	
14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 Mode of operation Type 1 Rated impulse voltage 0.8kV					
Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 Mode of operation Type 1 Rated impulse voltage 0.8kV		Certification			
Mode of operation Type 1 Rated impulse voltage 0.8kV					
Rated impulse voltage 0.8kV		Mode of operation	nn		
·				71	
		Control pollution degree Ambient temperature range Non-operating temperature			
Ambient temperature range -30+50°C				-	
- · · · · · · · · · · · · · · · · · · ·					
Ambient humidity range 95% r.h., non-condensating					
Maintenance Maintenance-free			, <u>J</u> -		
Dimensions / Weight Dimensions See «Dimensions»	Dimensions / Weight	Dimensions		See «Dimensions»	
	3	Weight		Approx. 1.1kg	

Dimensions [mm]



Damper spindle	Length	O <u>I</u>		$\overline{\underline{1}}$		
=	≥48	1020 ¹⁾	≥10	≤20		
-	≥20	1020 1)	≥10	≤20		
) CrNi (INOX) 12 20						



SM230A



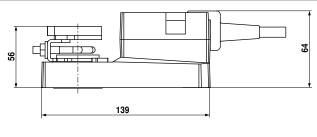
Damper actuator for adjusting air dampers in ventilation and air-conditioning systems for building services installations

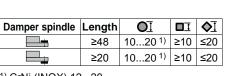
- Torque 20Nm
- Nominal voltage AC 100...240V
- Control: Open-close or 3-point

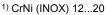


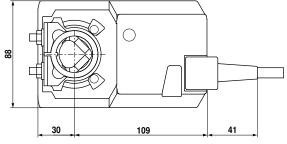
Technical data					
Electrical data	Nominal voltage		AC 100240V, 50/60Hz		
	Nominal voltage r	ange	AC 85265V		
	Power	In operation	2.5W @ nominal torque		
	consumption	At rest	0.6W		
	•	For wire sizing	6VA		
	Connection		Cable 1m, 3 x 0.75mm ²		
Functional data	Torque (nominal t	orque)	Min. 20Nm @ nominal voltage		
	Direction of rotation	on	Reversible with switch 0 resp. 1		
	Manual override		Gearing latch disengaged with pushbutton, can be locked		
	Angle of rotation		Max. 95°		
	Running time		150s / 90°⊲		
	Sound power leve	el	Max. 45dB(A)		
	Position indication	า	Mechanical, pluggable		
Safety	Protection class		II Totally insulated □		
_	Degree of protect	ion	IP54 in any mounting position		
	-		NEMA 2, UL Enclosure Type 2		
	EMC		CE according to 2004/108/EC		
	Low voltage direc	tive	CE according to 2006/95/EC		
	Certification		Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14		
	Mode of operation	1	Type 1		
	Rated impulse vo	Itage	2.5kV		
	Control pollution of	degree	3		
	Ambient temperature range Non-operating temperature Ambient humidity range		−30+50°C		
			–40+80°C		
			95% r.h., non-condensating		
	Maintenance		Maintenance-free		
Dimensions / Weight	Dimensions		See «Dimensions»		
•	Weight		Approx. 1.1kg		

Dimensions [mm]











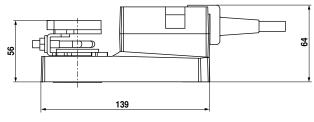
Damper actuator for adjusting air dampers in ventilation and air-conditioning systems for building services installations

- Torque 20Nm
- Nominal voltage AC 100...240V
- Control: Open-close or 3-point
- with integrated auxiliary switch

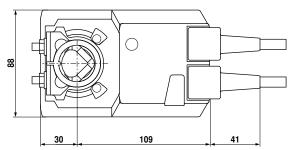


Technical data				
Electrical data	Electrical data Nominal voltage		AC 100240V, 50/60Hz	
	Nominal voltage ra	inge	AC 85265V	
	Power	In operation	2.5W @ nominal torque	
	consumption	At rest	0.6W	
		For wire sizing	6VA	
	Auxiliary switch		1 x SPDT, 1mA3 (0.5) A, AC 250V □	
			(0100% adjustable)	
	Connection	Motor	Cable 1m, 3 x 0.75mm ²	
	Auxiliary switch		Cable 1m, 3 x 0.75mm ²	
Functional data	Torque (nominal to		Min. 20Nm @ nominal voltage	
	Direction of rotation		Reversible with switch 0 ₹ resp. 1 →	
	Manual override		Gearing latch disengaged with pushbutton, can be	
			locked	
	Angle of rotation		Max. 95°⊲, can be limited at both ends with	
			adjustable mechanical end stops	
	Running time		150s / 90°⊲	
	Sound power level		Max. 45dB(A)	
	Position indication		Mechanical, pluggable	
Safety	Protection class		II Totally insulated □	
	Degree of protection	on	IP54 in any mounting position	
			NEMA 2, UL Enclosure Type 2	
	EMC		CE according to 2004/108/EC	
	Low voltage direct	ive	CE according to 2006/95/EC	
	Certification		cULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02	
			Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14	
	Mode of operation		Type 1	
	Rated impulse volt	200	2.5kV	
	Control pollution de		3	
	Ambient temperature range Non-operating temperature Ambient humidity range		-30+50°C	
			-40+80°C	
			95% r.h., non-condensating	
			Maintenance-free	
Dimensions / Weight	Dimensions		See «Dimensions»	
Dilliensions / Weight				
	Weight		Approx. 1.2kg	

Dimensions [mm]



Damper spindle	l ength	Oī	□ I	♦ Ī
Damper spindle	≥48	1020 1)		≤20
	≥20	1020 1)	≥10	≤20
1) CrNi (INOX) 12	20			



SM230ASR



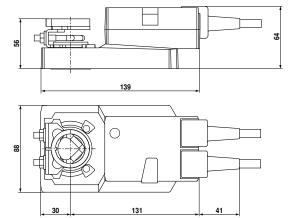
Modulating damper actuator for adjusting air dampers in ventilation and air-conditioning systems for building services installations

- Torque 20Nm
- Nominal voltage AC 100...240V
- Control: Modulating DC (0)2...10V
 Position feedback DC 2...10V



Technical data				
Electrical data	Nominal voltage		AC 100240V, 50/60Hz	
	Nominal voltage r	ange	AC 85265V	
	Power	In operation	3.5W @ nominal torque	
	consumption	At rest	0.6W	
	•	For wire sizing	6.5VA	
	Connection	Power supply	Cable 1m, 2 x 0.75mm ²	
		Signals	Cable 1m, 4 x 0.75mm²	
Functional data	Torque (nominal t	orque)	Min. 20Nm @ nominal voltage	
	Control	Control signal Y	DC (0)210V, typical input impedance 100kΩ	
		Operating range	DC 210V	
	Position feedback	(Measuring voltage U)	DC 210V, max. 1mA	
	Auxiliary supply		DC 24V ±30%, max. 10mA	
	Position accuracy	1	±5%	
	Direction of rotation	on	Reversible with switch 0 / 1	
	Direction of motio	n at Y = 0V	In switch position 0 ≠ resp. 1 →	
	Manual override		Gearing latch disengaged with pushbutton, can be	
	-		locked	
	Angle of rotation		Max. 95°⊲, can be limited at both ends with	
			adjustable mechanical end stops	
	Running time		150s / 90°⊲	
	Sound power leve		Max. 45dB(A)	
	Position indication	1	Mechanical, pluggable	
Safety	Protection class		II Totally insulated □	
	Degree of protect	ion	IP54 in any mounting position	
	EMC Low voltage directive		NEMA 2, UL Enclosure Type 2	
			CE according to 2004/108/EC	
			CE according to 2006/95/EC	
	Certification		cULus according to UL 60730-1A and UL 60730-2-	
			14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14	
	Mode of operation	`	Type 1	
	Rated impulse vo		2.5kV	
	Control pollution of		3	
	Ambient temperat	0	-30+50°C	
	Non-operating ter		-40+80°C	
	Ambient humidity		95% r.h., non-condensating	
	Maintenance	90	Maintenance-free	
Dimensions / Weight	Dimensions		See «Dimensions»	
Difficusions / Weight				
	Weight		Approx. 1.1kg	

Dimensions [mm]



Damper spindle	Length	<u>OĪ</u>		♦ Ī
-	≥48	1020 1)	≥10	≤20
	≥20	1020 1)	≥10	≤20

¹⁾ CrNi (INOX) 12...20