

Technical data sheet

Modulating damper actuator for adjusting dampers in technical building installations

- Air damper size up to approx. 8 m²
- Nominal torque 40 Nm
- Nominal voltage AC/DC 24 V
- Control modulating DC 0 ... 10 V
- Position feedback DC 2...10 V



Technical data

Functional data	ominal voltage ominal voltage frequency ominal voltage range ower consumption in operation ower consumption at rest ower consumption for wire sizing ensor element orque motor ontrol positioning signal Y ontrol positioning signal Y note	AC/DC 24 V 50/60 Hz AC 19.228.8 V / DC 19.228.8 V 4.5 W 2 W 6.5 VA Cable 1 m, 4 x 0.75 mm ² min. 40 Nm
Functional data	ominal voltage range ower consumption in operation ower consumption at rest ower consumption for wire sizing ensor element orque motor ontrol positioning signal Y	AC 19.228.8 V / DC 19.228.8 V 4.5 W 2 W 6.5 VA Cable 1 m, 4 x 0.75 mm ² min. 40 Nm
Functional data	ower consumption in operation ower consumption at rest ower consumption for wire sizing ensor element orque motor ontrol positioning signal Y	4.5 W 2 W 6.5 VA Cable 1 m, 4 x 0.75 mm ² min. 40 Nm
Functional data	ower consumption at rest ower consumption for wire sizing ensor element orque motor ontrol positioning signal Y	2 W 6.5 VA Cable 1 m, 4 x 0.75 mm ² min. 40 Nm
Functional data	ower consumption for wire sizing ensor element orque motor ontrol positioning signal Y	6.5 VA Cable 1 m, 4 x 0.75 mm ² min. 40 Nm
Functional data	ensor element orque motor ontrol positioning signal Y	Cable 1 m, 4 x 0.75 mm ² min. 40 Nm
Functional data	orque motor ontrol positioning signal Y	min. 40 Nm
C	ontrol positioning signal Y	
\overline{C}	ontrol positioning signal V note	DC 010 V
0		Typical input impedance 100 kΩ
	ontrol operating range	DC 210 V
	osition feedback (measuring voltage U)	DC 210 V
	osition feedback measuring voltage U	Max. 1 mA
	ote	
	osition accuracy	±5%
	irection of rotation motor	Can be selected with switch 0/1
R	unning direction	Y = 0 V: At switch position 0 (counter-clockwise
		rotation) / 1 (clockwise rotation)
_	anual override	Gear disengagement with push-button, can be locked
Ar	ngle of rotation	max. 95°
R	unning time motor	150 s / 90°
Se	ound power level motor max.	45 dB(A)
S	pindle driver	Universal spindle clamp reversible 1226 mm
Po	osition indication	Mechanical, pluggable
Safety Pr	rotection class IEC/EN	III Safety extra-low voltage
Pr	rotection class UL	UL Class 2 Supply
De	egree of protection IEC/EN	IP54 in all mounting positions
De	egree of protection NEMA/UL	NEMA 2, UL Enclosure Type 2
EI	lectromagnetic compatibility	CE according to 89/336/EC
C	ertification IEC/EN	Certified to IEC/EN 60730-1 and
		IEC/EN 60730-2-14
C	ertification UL	cULus according to UL 60730-1A,
		UL 60730-2-14 and CAN/CSA E60730-1:02
	ode of operation	Type 1
	ated current voltage motor	0.8 kV
	ontrol pollution degree	3
	mbient temperature	-3050°C
	on-operating temperature	-4080°C
A	mbient humidity	95% r.h., non-condensing
Μ	aintenance	Maintenance-free
Weight W	leight approx.	1.7 kg

Safety notes



• The actuator is not allowed to be used outside the specified field of application, especially not in aircraft or in any other airborne means of transport.



Safety notes					
	 Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation. 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 torque required, the specifications supplied by the damper manufacturers (cross-section, construction, place of installation), and the ventilation 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. 				
Product features					
Mode of operation	The actuator is connected with a standard modulating signal of DC 0 10V and travels to the position defined by the positioning signal. Measuring voltage U serves for the electrical display of the damper position 0 100% and as slave control signal for other actuators.				
Direct mounting	Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with a universal mounting bracket to prevent the actuator from rotating.				
Manual override	Manual override with push-button possible (the gear is disengaged for as long as the button is pressed or remains locked).				
High functional reliability	The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.				
Adjustable angle of rotation	Adjustable angle of rotation with mechanical end stops.				

Accessories

	Description	Туре
Electrical accessories	Auxiliary switch, add-on, 1 x SPDT	S1A
	Auxiliary switch, add-on, 2 x SPDT	S2A
	Feedback potentiometer 140 Ohm, add-on	P140A
	Feedback potentiometer 200 Ohm, add-on	P200A
	Feedback potentiometer 500 Ohm, add-on	P500A
	Feedback potentiometer 1 kOhm, add-on	P1000A
	Feedback potentiometer 2.8 kOhm, add-on	P2800A
	Feedback potentiometer 5 kOhm, add-on	P5000A
	Feedback potentiometer 10 kOhm, add-on	P10000A
	Range controller for wall mounting, adjustable electron. Min./max. angle of rotation limitation	SBG24
	Positioner for wall mounting, range 0100%	SGA24
	Positioner for front-panel mounting, range 0100%	SGF24
	Positioner in a conduit box, range 0100%	SGE24
	Positioner for wall mounting, range 0100%	CRP24-B1
	Signal converter voltage/current, supply AC/DC 24V	Z-UIC
	Digital position indicator for front-panel mounting, 099%, front mass 72 x 72 mm	ZAD24
	Description	Туре
Mechanical accessories	Actuator arm, for standard spindle clamp (reversible) K-SA	AH-GMA
	Mounting kit for linkage operation, GMA	ZG-GMA
	Base plate extension from GMA to GM	Z-GMA
	Straight ball joint with M8, suitable for damper crank arms KH8	KG10A
	Damper crank arm, for damper spindles	KH10

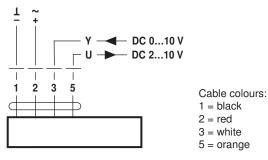


Electrical installation

Notes
Connection via safety isolating transformer.
Parallel connection of other actuators possible. Observe the performance data.

Wiring diagrams

AC/DC 24 V, modulating



Dimensions [mm]



Clamping ranges

OI	$\overline{\mathbf{A}}$
1222	1218
OI	
2226.7	1218

Dimensional drawings

