

Technical data sheet

Modulating damper actuator in the IP66 protective housing for adjusting air dampers in industrial plants and in technical building installations

- For air dampers up to approx. 8 m²
- Torque 40 Nm
- Nominal voltage AC/DC 24 V
- Control: Modulating DC 0 ... 10 V
 Position feedback DC 2 ... 10 V

Optimum weather protection for outdoor applications



Technical data

Electrical data	Nominal voltage	AC 24 V, 50/60 Hz / DC 24 V
	Nominal voltage range	AC/DC 19.2 28.8 V
	Power consumption In operation	4.5 W @ nominal torque
	At rest	2 W
	For wire sizing	6.5 VA (I _{max} 20 A @ 5 ms)
	Connection	Terminals 4 mm ² (cable \varnothing 4 10 mm)
Functional data	Torque (nominal torque)	Min. 40 Nm @ nominal voltage
	Control Control signal Y	DC 0 10 V, typical input impedance 100 k Ω
	Operating range	DC 2 10 V
	Position feedback (Measuring voltage U)	DC 2 10 V, max. 1 mA
	Position accuracy	±5%
	Direction of rotation	Reversible with switch 0 / 1
	Direction of motion at $Y = 0 V$	At switch position 0 🖛 or 1 🔿, respectively
	Manual override	Gearing latch disengaged with pushbutton,
		can be locked
	Angle of rotation	Max. 95° \triangleleft , can be limited at both ends with
		adjustable mechanical end stops
	Running time	150 s / 90°⊲
	Sound power level	Max. 45 dB (A)
	Position indication	Mechanical, pluggable
Safety	Protection class	III Safety extra-low voltage
		UL Class 2 Supply
	Degree of protection	IP66
		NEMA 4, UL Enclosure Type 4
	EMC	CE according to 2004/108/EC
	Certification	Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14
		cULus according to UL 60730-1 and UL 60730-2-14
	Made of exercise	and CAN/CSA E60730-1:02
	Mode of operation	Type 1
	Rated impulse voltage	0.8 kV
	Control pollution degree	4
	Ambient temperature	<u>-30+50°C</u>
	Non-operating temperature	-40+80°C
	Ambient humidity	100% r.h.
	Maintenance	Maintenance-free
Dimensions / Weight	Dimensions	See «Dimensions» on page 3
	Weight	Approx. 4.7 kg



Safety notes	
\wedge	 The actuator is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport. It may only be installed by suitably trained personnel. Any legal regulations or regulations
	 issued by authorities must be observed during installation. The cover of the protective housing may be opened for adjustment and servicing. When it is a service of the protective housing may be opened for adjustment and servicing. When it is a service of the protective housing may be opened for adjustment and servicing. When it is a service of the protective housing may be opened for adjustment and servicing. When it is a service of the protective housing may be opened for adjustment and servicing. When it is a service of the protective housing may be opened for adjustment and servicing. When it is a service of the protective housing may be opened for adjustment and service of the protective housing may be opened for adjustment and service of the protective housing may be opened for adjustment and service of the protective housing may be opened for adjustment and service of the protective housing may be opened for adjustment and service of the protective housing may be opened for adjustment and service of the protective housing may be opened for adjustment and service of the protective housing may be opened for adjustment and service of the protective housing may be opened for adjustment and service of the protective housing may be opened for adjustment and service of the protective housing may be opened for adjustment and service of the protective housing may be opened for adjustment and service of the protective housing may be opened for adjustment and service of the protective housing may be opened for adjustment and service of the protective housing may be opened for adjustment and service of the protective housing may be opened for adjustment and service of the protective housing may be opened for adjustment and service of the protective housing may be opened for adjustment and service of the protective housing may be opened for adjustment and service of the protective housing may be opened for adjustment and service of the protective house of the protective house of the protective house
	 closed afterwards, the housing must seal tight (see installation instructions). The device on the inside may only be opened up in the factory. It does not contain any parts that can be replaced or repaired by the user.
	 When calculating the required torque, the specifications supplied by the damper manufacturers (cross-section, design, installation site), and the air flow 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. The actuator is not designed for applications where chemical influences (gases, fluids) are
	 present or for utilisation in corrosive environments in general. The materials used may be subjected to external influences (temperature, pressure, constructional fixture), that cannot be simulated in laboratory test or field trials. In case of doubt, we definitely recommend that you carry out a test. This information does not imply any legal entitlement. Belimo will not be held liable and will provide no warranty. If cables which are not authorised for UL (NEMA) Type 4 applications are guided out of the unit, then flexible metallic cable conduits or threaded cable conduits of equal value are to be used.
	 The actuator may not be used in plenum applications (e.g. suspended ceilings or raised floors).
Product features	
Fields of application	The actuator is particularly suitable for utilisation in outdoor applications and is protected against the following weather conditions: - UV radiation - rain / snow - dirt / dust
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Modulating damper actuator, IP66, AC/DC 24 V, 40 Nm



Accessories

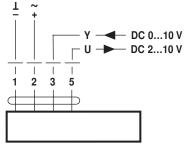
	Description	Data sheet
Electrical accessories	Auxiliary switch SA	T2 - SA
	Feedback potentiometer P.A.	T2 - PA
	Range controller SBG24	T2 - SBG24
	Positioner SGA24, SGE24 and SGF24	T2 - SG24
	Digital position indicator ZAD24	T2 - ZAD24
	Heating with mechanical hygrostat *	
	Heating with adjustable thermostat *	

* in development

Electrical installation

Wiring diagram

- Notes
- Connection via safety isolating transformer!
- Other actuators can be connected in parallel.
- Please note the performance data!



Dimensions [mm]

