

Technical data sheet

LF24-3

Rotary actuator fail-safe for adjusting dampers in technical building installations

- Air damper size up to approx. 0.8 m²
- Torque motor 4 Nm
- Nominal voltage AC/DC 24 V
- Control 3-point



Technical data

Electrical data	Neminal valtage	
Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency Nominal voltage range	50/60 Hz AC 19.228.8 V / DC 21.628.8 V
	Power consumption in operation	AC 19.220.0 V / DC 21.020.0 V
	· · ·	2.5 W
	Power consumption in rest position Power consumption for wire sizing	5 VA
	Power consumption for wire sizing note	Imax 5.8 A @ 5 ms
	Connection supply / control Parallel operation	Cable 1 m, 4 x 0.75 mm ²
	· · ·	Yes (note the performance data)
Functional data	Torque motor	4 Nm
	Torque fail-safe	4 Nm
	Direction of motion motor	selectable with switch L/R
	Direction of motion fail-safe	selectable by mounting L/R
	Manual override	No
	Angle of rotation	Max. 95°
	Angle of rotation note	Adjustable 37100% with integrated
		mechanical limitation
	Running time motor	150 s / 90°
	Running time fail-safe	<20 s / 90 °
	Running time fail-safe note	@ -2050°C / <60 s @ -30°C
	Sound power level, motor	30 dB(A)
	Mechanical interface	Universal shaft clamp 816 mm
	Position indication	Mechanical
	Service life	Min. 60'000 fail-safe positions
Safety	Protection class IEC/EN	III Safety Extra-Low Voltage (SELV)
	Degree of protection IEC/EN	IP54
	EMC	CE according to 2014/30/EU
	Low voltage directive	CE according to 2014/35/EU
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
	Mode of operation	Type 1.B
	Rated impulse voltage supply / control	0.8 kV
	Control pollution degree	3
	Ambient temperature	-3050°C
	Storage temperature	-4080°C
	Ambient humidity	Max. 95% r.H., non-condensing
	Servicing	maintenance-free
Weight	Weight	1.5 kg



Safety notes		
\wedge	The device must not be used outside the spe- in aircraft or in any other airborne means of tr	
<u> </u>	 Outdoor application: only possible in case that or aggressive gases interfere directly with the ambient conditions remain at any time within sheet. 	actuator and that is ensured that the
	 Only authorised specialists may carry out inst institutional installation regulations must be con- 	
	 The device may only be opened at the manuf parts that can be replaced or repaired by the 	
	Cables must not be removed from the device.	
	 To calculate the torque required, the specifical manufacturers concerning the cross-section, ventilation conditions must be observed. 	
	 The device contains electrical and electronic of as household refuse. All locally valid regula observed. 	
Product features		
Mode of operation	The actuator is activated with a 3-point signal. T the operating position at the same time as tensi is turned back to the fail-safe position by spring interrupted.	oning the return spring. The damper
Simple direct mounting	Simple direct mounting on the damper shaft with an anti-rotation device to prevent the actuator fr	
Adjustable angle of rotation	Adjustable angle of rotation with mechanical en	d stops.
High functional reliability	The actuator is overload protected, requires no when the end stop is reached.	limit switches and automatically stops
Accessories		
	Description	Туре

	Description	Туре
Electrical accessories	Auxiliary switch 2 x SPDT	S2A-F
	Feedback potentiometer 200 Ω	P200A-F
	Feedback potentiometer 1 k Ω	P1000A-F
	Description	Туре
Mechanical accessories	Shaft extension 170 mm Ø10 mm for damper shaft Ø 616 mm	AV6-20
	Shaft extension 240 mm Ø20 mm for damper shaft Ø 822.7 mm	AV8-25
	Shaft clamp reversible, clamping range Ø1620 mm	K6-1
	Ball joint suitable for damper crank arm KH8 / KH10	KG10A
	Ball joint suitable for damper crank arm KH8	KG8
	Damper crank arm Slot width 8.2 mm, clamping range Ø1018 mm	KH8
	Actuator arm, clamping range Ø816 mm, Slot width 8.2 mm	KH-LF
	Angle of rotation limiter, with end stop	ZDB-LF
	Form fit adapter 8x8 mm	ZF8-LF
	Mounting kit for linkage operation for flat installation	ZG-LF1
	Mounting kit for linkage operation for side installation Slot width 6.2 mm	ZG-LF3
	Anti-rotation mechanism 180 mm, Multipack 20 pcs.	Z-ARS180L
Electrical installation		

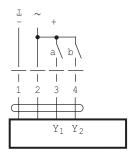
Notes	 Connection via safety isolating transformer. Parallel connection of other actuators possible. Observe the performance data.
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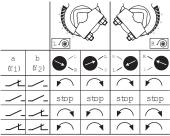


Electrical installation

Wiring diagrams

AC/DC 24 V, 3-point





Dimensions [mm]

Spindle length



Clamping range

	$\overline{\mathbf{A}}$
816	816

Cable colours: 1 = black 2 = red3 = white 4 = white

Dimensional drawings

