Mechanical Fail-Safe Damper Actuator EF230A-S2

BELIMO

Spring return actuator with emergency function for adjusting air dampers in ventilation and air conditioning systems in buildings
- **Torque 30Nm**
- **Nominal voltage AC 230V**
- **Control: Open-close**
- **Two integrated auxiliary switches**

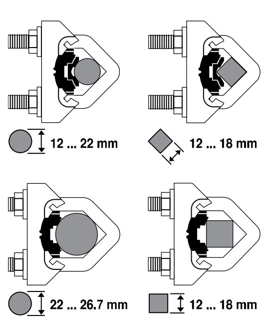
Technical data

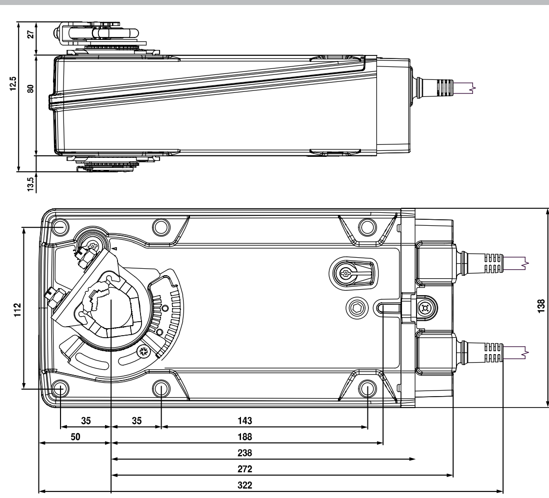
Electrical data	Nominal voltage		AC 230V, 50/60Hz
	Nominal voltage range		AC 90...264V
	Power consumption	In operation	9W @ nominal torque
		At rest	4.5W
		For wire sizing	21VA
	Auxiliary switch		2 x SPDT, 1 x 10% / 1 x 11...90%
	Connection	Motor	Cable 1m, 2 x 0.75mm^2
		Auxiliary switch	Cable 1m, 6 x 0.75mm^2
Functional data	Torque	Motor	Min. 30Nm @ nominal voltage
		Spring return	Min. 30Nm
	Direction of rotation		Can be selected by mounting L / R
	Manual override		With hand crank and interlocking switch
	Angle of rotation		Max. 95°∢, can be limited with adjustable mechanical end stop
	Running time	Motor	≤75s (0...30Nm)
		Spring return	≤20s @ –20...50°C / max. 60s @ –30°C
	Sound power level	Motor	≤56dB(A)
		Spring return	≤71dB(A)
	Service life		Min. 60,000 emergency positions
	Position indication		Mechanical
Safety	Protection class		**II** Totally insulated ⧈
	Protection mode		IP54 NEMA2, UL Enclosure Type 2
	EMC		CE according to 2004/108/EC
	Low-voltage directive		CE according to 2006/95/EC
	Certification		Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 cULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02
	Mode of operation		Type 1.AA.B
	Rated impulse voltage	Actuator	2.5kV
		Auxiliary switch	2.5kV
	Control pollution degree		3
	Ambient temperature		–30...+50°C
	Non-operating temperature		–40...+80°C
	Ambient humidity		95% r.h., non-condensating
	Maintenance		Maintenance-free
Dimensions / Weight	Dimensions		See «Dimensions»
	Weight		Approx. 5.4kg

Dimensions [mm]

Dimensional drawings

Damper spindle	Length	○↕	□↕	◇↕
	≥117	12...26.7	>12	< 25.2
	≥20	12...26.7	>12	< 25.2





UL marked actuators is optional, please contact your local Sales Representative for details.

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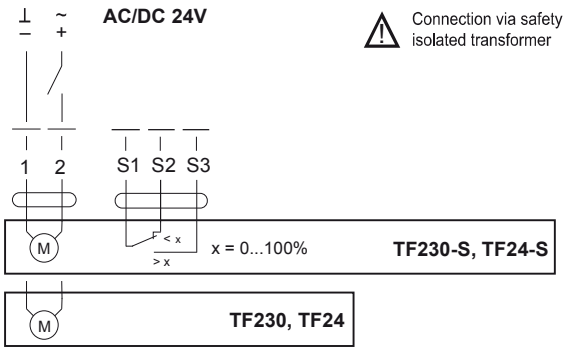
Wiring diagrams: Open/Close actuators

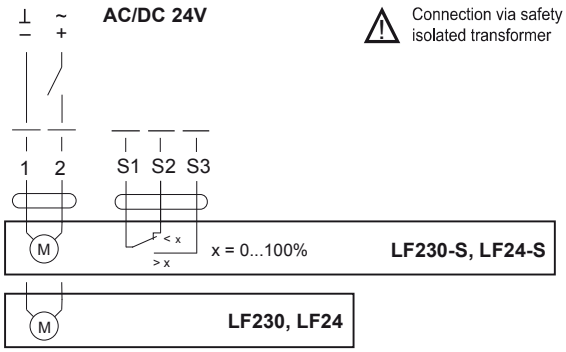
Notes:

- Parallel connection of several actuators is possible.
- Power consumption must be observed.

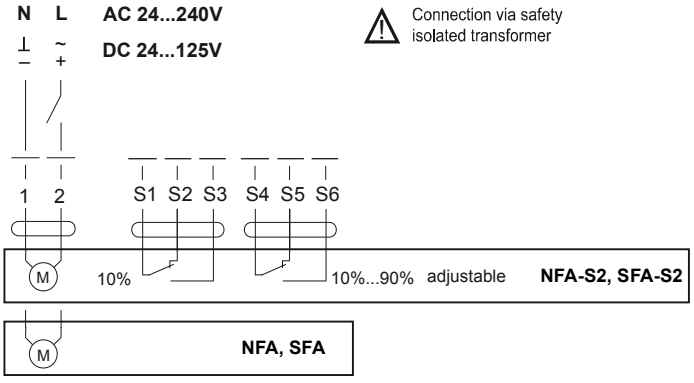
N L AC 100...240V (for TF230..)
AC/DC 24V



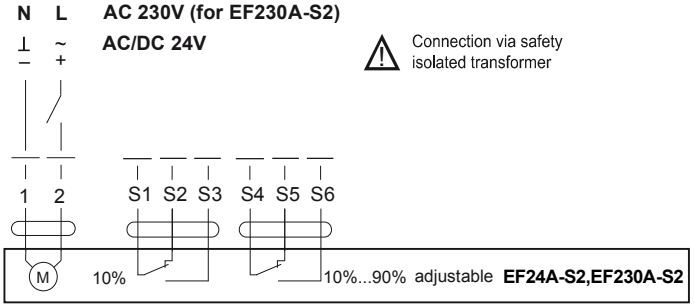
N L AC 230V (for LF230..)
AC/DC 24V



N L AC 24...240V
DC 24...125V



N L AC 230V (for EF230A-S2)
AC/DC 24V



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