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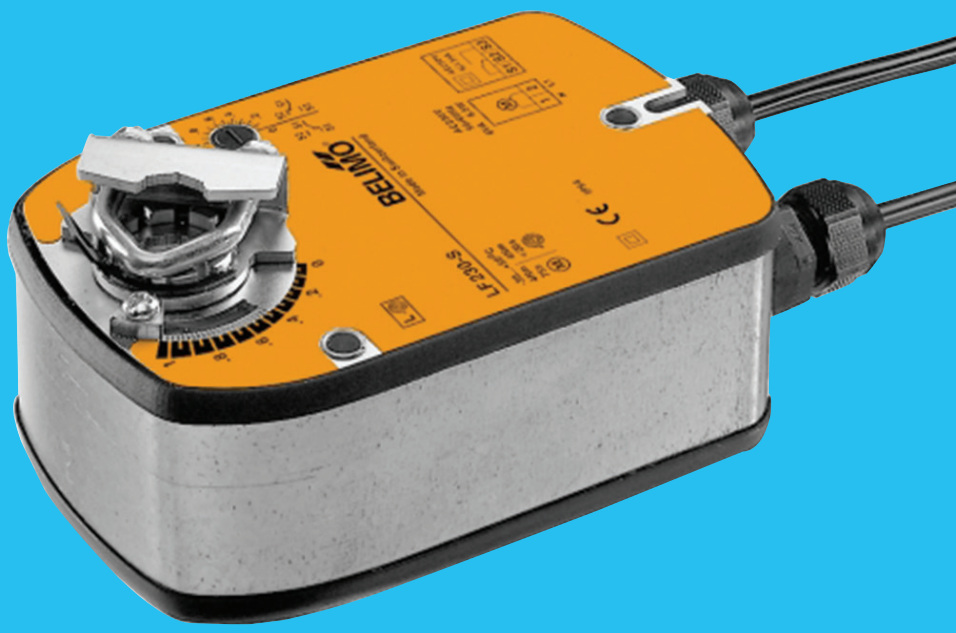


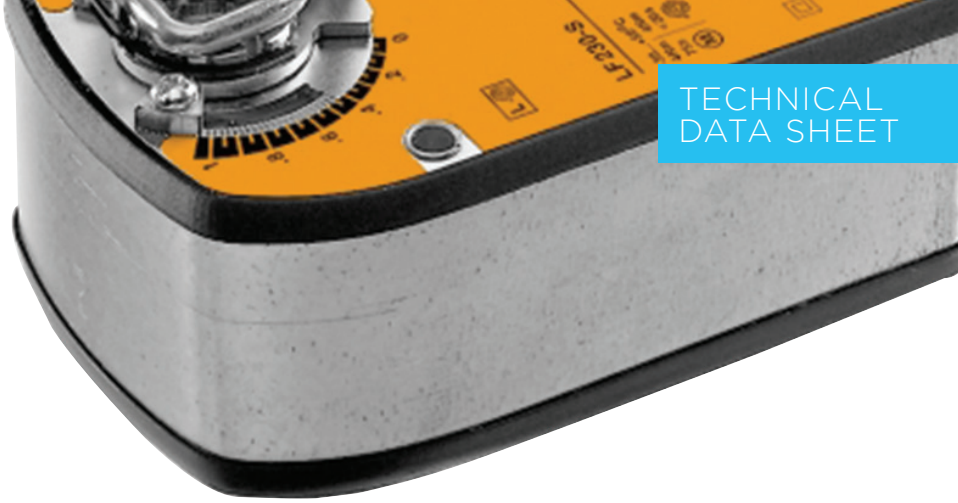
BELIMO®

LF230, LF230-S spring return actuators

LF230
LF230-S

idealair group

TECHNICAL DATA SHEET



BELIMO

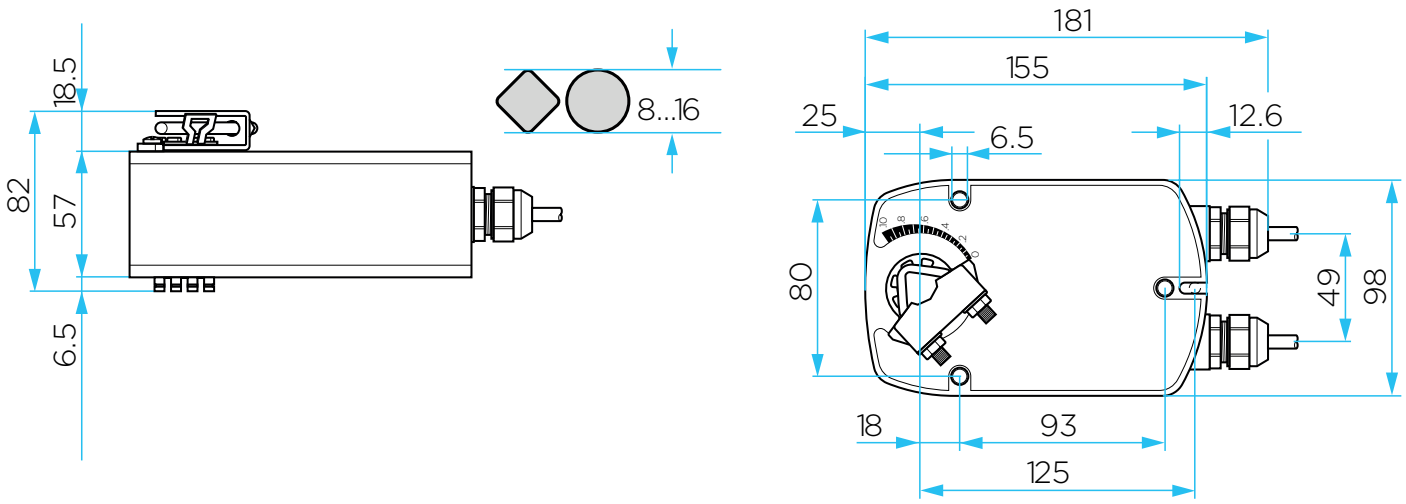
LF230, LF230-S SPRING RETURN ACTUATORS

Overview

Dampers up to approx. 0.8 m², with open/close actuator (AC 230 V), controlled by single-pole contact. The application is for the operation of air dampers that perform safety functions (e.g. frost and smoke protection, hygiene, etc). The mode of operation for the LF... actuator moves the damper to its normal working position while tensioning the return spring at the same time. If the power supply is interrupted, the energy stored in the spring moves the damper back to its safe position.

- Simple direct mounting on the damper spindle by universal spindle clamp. An antirotation device is supplied to prevent unwanted rotation of the whole unit.
- Mechanical angle of rotation limiting adjustable with built-in stop.
- High functional reliability. The actuator is overload proof, needs no limit switches and halts automatically at the end stop.
- Flexible signalling 0...100% ⊰, with adjustable auxiliary switch (LF230-S only).

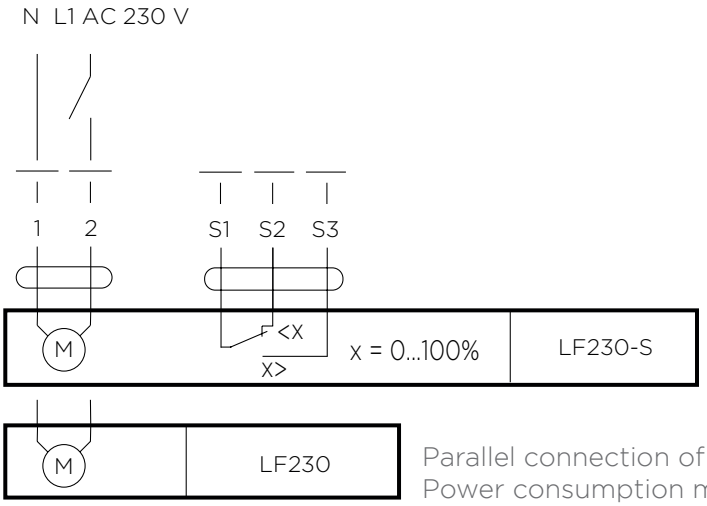
Product Specifications



LF230 & LF230-S
SPRING RETURN ACTUATOR

Wiring Diagram

To isolate from the main power supply, the system must incorporate a device, which disconnects the phase conductors (with at least a 3 mm contact gap).



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

Technical Data

Technical Data		
Electrical Data	**Nominal Voltage**	AC 230 V 50/60 Hz
	Nominal Voltage Range	AC 198 ... 264 V
	For Wire Sizing	7 VA (Imax 150 mA @ 10ms)
	Power Consumption - Motoring - Holding	5W 3W
Functional Data	**Connecting Cable - Motor - Auxiliary Switch (LF230-S)**	1m long, 2 x 0.75mm² 1m long, 3 x 0.75mm²
	Auxiliary Switch (LF230-S) - Switching Point	1 x SPDT 6 (1.5) A, AC 250 V Adjustable 0 ... 100%
	Direction of Rotation	Selected by mounting L/R
	Torque - Motor - Spring Return	Min. 4 Nm (at rated voltage) Min. 4 Nm
	Torque	Max. 95° (adjustable 37...100% with built-in mechanical stop)
	Running Time - Motor - Spring Return	40 ... 75 s (0 ... 4 Nm) ffi 20 s @ -20 ... 50°C / max. 60 s @ -30°C
	Sound Power Level	Motor max. 50 dB (A), spring ffi 62 dB (A)
	Service Life	Min. 60,000 operations
	Position Indication	Mechanical
Safety	**Protection Class**	II (all insulated)
	Degree of Protection	IP 54
	Ambient Temperature Range Non-Operating Temperature Humidity Test	-30 ... +50°C -40 ... +80°C To EN 60335-1
	EMC Low Voltage Directive	CE according to 89/336/EEC, 92/31/EEC, 93/68/EEC CE according to 73/23/EEC
	Maintenance	Maintenance-Free
Dimensions / Weight	**Weight**	1550g