

# BELIMO LF230 / LF24

## Electric actuators

### Features

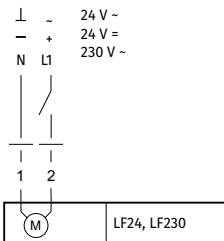
- For controlling air dampers with cross section up to 0.8 m<sup>2</sup> installed in various ventilation and air conditioning systems and performing protection functions.



### Design

- The electric actuator is provided with a 4 Nm actuating torque and an overload protection.
- The actuator is installed directly on the air damper shaft.
- The actuator is equipped with a return spring, which moves the damper to its operating position while tensioning the return spring at the same time. In case of power supply cut-off, the damper moves back to its safe position by the spring energy.
- The angle of rotation is adjusted by mechanical end stops.

### Wiring diagram



Warning!  
For LF24: connection via a power transformer

For LF230: after disconnection from power supply the contacts opening gap must be within 3 mm

Several electric actuators may be parallel connected with respect to the power

### Technical data

Parameters	LF24	LF230
<b>Voltage</b>	24 V ~ 50 (60) Hz, 24 V=	230 V ~ 50 (60) Hz
<b>Nominal voltage range [V]</b>	19.2...28.8 ~ 21.6...28.8 V=	198...264 ~
<b>Rated power [VA]</b>	7 (max. I 5.8 A at t = 5 ms)	7 (max. I 150 mA at t = 10 ms)
<b>Power consumption in operation / at rest [W]</b>	5 / 2.5	5 / 3
<b>Connecting cable</b>	1 m long, 2 x 0.75 mm <sup>2</sup>	
<b>Direction of rotation</b>	determined by L/R positioning	
<b>Torque (motor / spring) [Nm]</b>	4 (at nominal voltage) / 4	
<b>Angle of rotation</b>	max. 95°, adjustable 37...100 % with a mechanical end stop	
<b>Swing time (motor / spring) [sec]</b>	40...75 (0...4 Nm) / ~ 20 at -20...50 °C	
<b>Service life</b>	60 000 switching operations	
<b>Ingress protection rating</b>	IP54 (installation with cable downwards)	
<b>Electrical protection class</b>	III low voltage II totally insulated	III low voltage II totally insulated
<b>Operation temperature [°C]</b>	-30...+50	
<b>Storage temperature [°C]</b>	-40...+80	
<b>Ambient humidity</b>	95 %, no condensation	
<b>Noise level (motor/ spring) [dBA]</b>	50 / ≈ 62	50 / ≈ 62
<b>Maintenance</b>	not required	
<b>Weight [kg]</b>	1.4	1.4

### Overall dimensions [mm]

