p0002707

Wiring diagram

N L1 AC 230 V

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).

1 2 3   S1 S2 S3

LM230-S 0...100%

LM230

Parallel connection of several actuators with 1-wire control possible. Power consumption must be observed.

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Technical data	LM230, LM230-S	
Nominal voltage	AC 230 V 50/60 Hz	
Nominal voltage range	AC 198…264 V	
For wiring sizing	12 VA	
Power consumption	1 W	
Connecting cable	– motor	1 m long, 3 × 0.75 mm^2
	– auxiliary switch (LM230-S)	1 m long, 3 × 0.75 mm^2
Auxiliary switch (LM230-S)	1 × SPDT 5(2,5) A, AC 250 V □	
– Switching point	adjustable 0…100% ∢	
Direction of rotation	selected with L/R switch	
Manual operation	pushbutton, self-resetting	
Torque	min. 4 Nm (at rated voltage)	
Angle of rotation	max. 95° (adjustable by mechanical stops)	
Running time	80… 110 s (0… 4 Nm)	
Sound power level	max. 35 dB(A)	
Position indication	mechanical	
Protection class	II (all insulated)	
Degree of protection	IP 54 (bottom cable entry)	
Ambient temperature range	– 30… + 50 °C	
Non-operating temperature	– 40… + 80 °C	
Humidity test	to EN 60335-1	
EMC	CE according to 89/336/EEC, 92/31/EEC, 93/68/EEC	
Low Voltage Directive	CE according to 73/23/EEC	
Maintenance	maintenance-free	
Weight	650 g	

Dampers up to approx. 0.8 m^2

Open/Close actuator (AC 230 V)

Control by single-pole contact (single-wire control)

Application
The type LM230(-S) is intended for the operation of air control dampers in ventilation and air-conditioning systems.

Mode of operation
Open/Close control by single-wire system.

Product features

Simple direct mounting on the damper spindle by universal spindle clamp. An antirotation device is supplied to prevent unwanted rotation of the whole unit.

Manual operation by self-resetting pushbutton when necessary (the gearing is disengaged while the pushbutton is held depressed).

Adjustable angle of rotation with mechanical stops.

High functional reliability
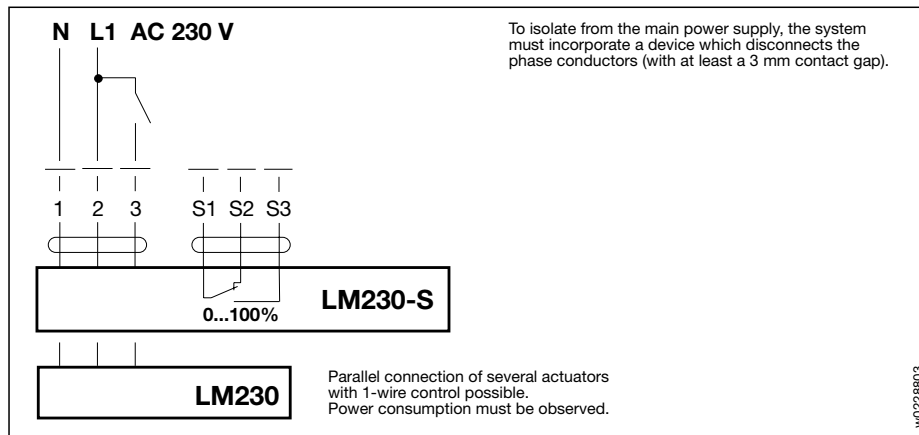The actuator is overload-proof, needs no limit switches and halts automatically at the end stops.

Flexible signalling 0…100%, with adjustable auxiliary switch (LM230-S only).

Important
Read the notes about the use and torque requirements of the damper actuators on page 2.

Dimensions

6…16

33.5   59   89   116.2

66.2   22.1   94.1   5.2

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