



**Dampers up to approx. 3.6 m<sup>2</sup>**

**Open/Close actuator  
(AC 230 V)**

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

**Multi-function connection**

**Application**

The AM230(-S) is intended for operation of air control dampers in HVAC 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 anti-rotation device is supplied.

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

**Adjustable angle of rotation** with mechanical stops.

**High functional reliability** (overload-proof) needs no limit switches, halts automatically at the end stops.

**Flexible signalling** 0...100%, with 2 adjustable auxiliary switches (AM230-S only).

**Connection** is either by means of the pre-fitted leads included with the actuator or directly by means of screw terminals. In the case of direct connection terminal box will be opened (page 15/16).

**Electrical accessories**

- SA1, SA2 Auxiliary switches, page 17
- PA... Feedback potentiometer, page 18

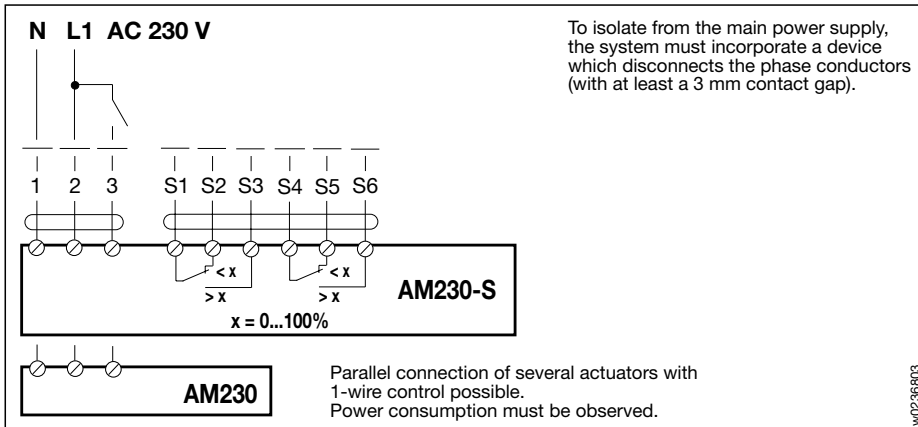
**Mechanical accessories**, page 22  
ZG-AM Damper linkage kit

**Mounting instructions**, page 21/22

**Adjusting auxiliary switch AM230-S**, page 7

**Important:** Read the notes about the use and torque requirements of the damper actuators on page 3.

**Wiring diagram**



Technical data	AM230, AM230-S
Nominal voltage	AC 230 V 50/60 Hz
Nominal voltage range	AC 198...264 V
For wire sizing	25 VA @ 50 Hz, 30 VA @ 60 Hz (Imax 4.2 A @ 1 ms)
Power consumption	3 W @ 50 Hz, 3.8 W @ 60 Hz
Connecting cable	– motor 1 m long, 3 x 0.75 mm <sup>2</sup> – auxiliary switch (AM230-S) 1 m long, 6 x 0.75 mm <sup>2</sup> (direct connection by screw terminals for 2 x 1.5 mm <sup>2</sup> wire possible)
Cable glands	– AM230 1 x for motor lead 6...7 mm dia.
PG11 included	– AM230-S 1 x for motor lead 6...7 mm dia. 1 x for switch lead 8...9 mm dia.
Auxiliary switch (AM230-S)	2 x SPDT 1 mA...3 (0.5) A, AC 250 V <input type="checkbox"/>
– Switching point	adjustable 0...100% $\triangleleft$
Direction of rotation	selected with L / R switch
Manual operation	pushbutton, auto-return
Torque	min. 18 Nm (at rated voltage)
Angle of rotation	max. 95° (adjustable 35...100% by mechanical stops)
Running time	100...150 s (0...18 Nm)
Sound power level	max. 45 dB (A)
Position indication	mechanical
Protection class	II (all insulated)
Degree of protection	IP 54 (bottom cable entry)
Ambient temp. range	–30...+50 °C
Non-operating temp	–40...+80 °C
Humidity test	according 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	1300 g

**Dimensions**

