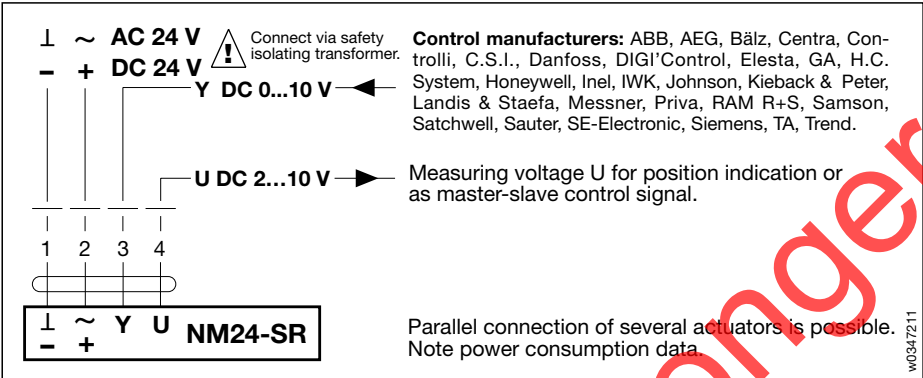




Wiring diagram



Technical data	NM24-SR
Nominal voltage	AC 24 V 50/60 Hz, DC 24 V
Nominal voltage range	AC 19.2...28.8 V, DC 21.6...28.8 V
For wire sizing	3 VA
Power consumption	1.3 W running, 0.5 W at rest
Connecting cable	1 m long, 4x0.75 mm ²
Control signal Y	DC 0...10 V @ input resistance = 100 kΩ
Operating range	DC 2...10 V (for 0...100% angle of rotation)
Measuring voltage U	DC 2...10 V @ ≤ 0.7 mA (for 0...100% angle of rotation)
Synchronisation tolerance	± 5%
Override control	Y open or 0 V = 0% angle of rotation Y at AC 24 V = 100% angle of rotation
Direction of rotation (at Y = 0 V)	selected with L/R switch at switch position L ↶ resp. R ↷
Torque	min. 8 Nm (at rated voltage)
Angle of rotation	max. 95° (adjustable by mechanical stops)
Running time	150 s, regardless of the mechanically limited angle of rotation from 0...35° ↶ to 0...95° ↷
Sound power level	max. 35 dB (A)
Position indication	mechanical
Protection class	⚡ (safety low voltage)
Degree of protection	IP 54 (bottom cable entry)
Ambient temperature range	-20...+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
Maintenance	maintenance free
Weight	900 g

Dampers up to approx. 1.5 m²
Modulating damper actuator (AC/DC 24 V)
Control DC 0...10 V and position feedback DC 2...10 V
Self-adapting, automatic angle of rotation and running time adjustment

Improved functional safety
The damper actuator has no limit switches and is overload-proof. It stops automatically when it reaches the damper or actuator end stop.

Automatic commissioning, easy functional check
When the power supply is first switched on, or when the override push button is pressed, the actuator performs an automatic function test. It runs to each end position and, in the process, adapts its electrical working range of DC 2...10 V and running time of 150 s to the effective mechanical angle of rotation of the damper. After performing this function, the actuator moves to the position demanded by the positioning signal. A functional check of damper operation is simplicity itself: the gearing can be disengaged by simply pressing a push-button on top of the case. While the pushbutton remains depressed, the damper can be operated by hand.

Simple installation
The damper actuator is fitted with a universal spindle clamp for quick and easy mounting directly on the damper spindle. The actuator is supplied with an anti-rotation strap for fixing it in position.

Electrical accessories *(see Doc. 2. Z-...)
SN1, SN2 Auxiliary switches, page 9
*SG...24 Positioners
*ZAD24 Digital position indicator

Control and monitoring functions, page 8
Mounting instructions, page 10

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

