

Technical data sheet

Rotary actuator for zone valves

- Nominal torque 1 Nm
- Nominal voltage AC 230 V
- Control Open-close, 3-point
- Snap-assembly of the actuator
- Flow setting variable
- Running time motor 35 s



Technical data

Electrical data Nominal voltage AC 230 V Nominal voltage frequency 50/60 Hz Nominal voltage range AC 207253 V Power consumption in operation 1 W Power consumption in rest position 0.7 W Power consumption for wire sizing 2 VA Connection supply / control Cable 1 m, 3 x 0.75 mm² Parallel operation Yes (note the performance data) Functional data Torque motor 1 Nm Manual override with actuator (clicked out) Running time motor 35 s / 90 ° Sound power level motor 43 dB(A) Position indication Yes Flow setting see product features Safety Protection class IEC/EN II reinforced insulation Degree of protection IEC/EN IP40 EMC EMC CE according to 2014/30/EU Certification IEC/EN Low voltage directive CE according to 2014/35/EU Certification IEC/EN Cortio pollution degree 2 Ambient temperature 540 °C Non-operating temperature 540 °C C Ambient temperature Mointoanene free			
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Connection supply / control Cable 1 m, 3 x 0.75 mm² Parallel operation Yes (note the performance data) Functional data Torque motor 1 Nm Manual override with actuator (clicked out) Running time motor 35 s / 90° Sound power level motor 43 dB(A) Position indication Yes Flow setting see product features Flow setting see product features Degree of protection IEC/EN II reinforced insulation Degree of protection IEC/EN IP40 EMC CE according to 2014/30/EU Low voltage directive CE according to 2014/35/EU Certification IEC/EN IEC/EN 60730-1 and IEC/EN 60730-2-14 Mode of operation Type 1 Rated impulse voltage supply / control 2.5 kV Control pollution degree 2 Ambient temperature 540°C Non-operating temperature -750°C Ambient humidity 95% r.h., non-condensing		Power consumption in rest position	0.7 W
Parallel operationYes (note the performance data)Functional dataTorque motor1 NmManual overridewith actuator (clicked out)Running time motor35 s / 90°Sound power level motor43 dB(A)Position indicationYesFlow settingsee product featuresFlow settingsee product featuresDegree of protection IEC/ENII reinforced insulationDegree of protection IEC/ENIP40EMCCE according to 2014/30/EULow voltage directiveCE according to 2014/35/EUCertification IEC/ENIEC/EN 60730-1 and IEC/EN 60730-2-14Mode of operationType 1Rated impulse voltage supply / control2.5 kVControl pollution degree2Ambient temperature540°CNon-operating temperature-750°CAmbient humidity95% r.h., non-condensing		Power consumption for wire sizing	2 VA
Functional data Torque motor 1 Nm Manual override with actuator (clicked out) Running time motor 35 s / 90 ° Sound power level motor 43 dB(A) Position indication Yes Flow setting see product features Safety Protection class IEC/EN II reinforced insulation Degree of protection IEC/EN IP40 EMC CE according to 2014/30/EU Low voltage directive CE according to 2014/35/EU Certification IEC/EN IEC/EN 60730-1 and IEC/EN 60730-2-14 Mode of operation Type 1 Rated impulse voltage supply / control 2.5 kV Control pollution degree 2 Ambient temperature 540 °C Non-operating temperature -750 °C Ambient humidity 95% r.h., non-condensing		Connection supply / control	Cable 1 m, 3 x 0.75 mm ²
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Sound power level motor43 dB(A)Position indicationYesFlow settingsee product featuresSafetyProtection class IEC/ENII reinforced insulationDegree of protection IEC/ENIP40EMCCE according to 2014/30/EULow voltage directiveCE according to 2014/35/EUCertification IEC/ENIEC/EN 60730-1 and IEC/EN 60730-2-14Mode of operationType 1Rated impulse voltage supply / control2.5 kVControl pollution degree2Ambient temperature540°CNon-operating temperature-750°CAmbient humidity95% r.h., non-condensing		Manual override	
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Flow setting see product features Flow setting see product features Safety Protection class IEC/EN II reinforced insulation Degree of protection IEC/EN IP40 EMC CE according to 2014/30/EU Low voltage directive CE according to 2014/35/EU Certification IEC/EN IEC/EN 60730-1 and IEC/EN 60730-2-14 Mode of operation Type 1 Rated impulse voltage supply / control 2.5 kV Control pollution degree 2 Ambient temperature 540°C Non-operating temperature -750°C Ambient humidity 95% r.h., non-condensing		Sound power level motor	43 dB(A)
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Certification IEC/ENIEC/EN 60730-1 and IEC/EN 60730-2-14Mode of operationType 1Rated impulse voltage supply / control2.5 kVControl pollution degree2Ambient temperature540 °CNon-operating temperature-750 °CAmbient humidity95% r.h., non-condensing		EMC	CE according to 2014/30/EU
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Rated impulse voltage supply / control2.5 kVControl pollution degree2Ambient temperature540 °CNon-operating temperature-750 °CAmbient humidity95% r.h., non-condensing		Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
Control pollution degree2Ambient temperature540°CNon-operating temperature-750°CAmbient humidity95% r.h., non-condensing		Mode of operation	Type 1
Ambient temperature540 °CNon-operating temperature-750 °CAmbient humidity95% r.h., non-condensing			2.5 kV
Non-operating temperature-750 °CAmbient humidity95% r.h., non-condensing		Control pollution degree	2
Ambient humidity 95% r.h., non-condensing		Ambient temperature	540°C
		Non-operating temperature	-750°C
Maintananaa Maintananaa fraa		Ambient humidity	95% r.h., non-condensing
		Maintenance	Maintenance-free
Weight Weight 0.21 kg	Weight	Weight	0.21 kg

Safety notes



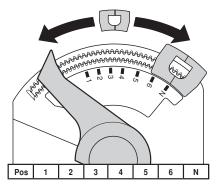
• This device has been designed for use in stationary heating, ventilation and air conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.

- Outdoor application: only possible in case that no (sea)water, snow, ice, insolation
 or aggressive gases interfere directly with the actuator and that is ensured that the
 ambient conditions remain at any time within the thresholds according to the data
 sheet.
- · Caution: Power supply voltage!
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
- The device may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.
- Cables must not be removed from the device.
- The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.



Simple direct mountingTool-free snap assembly. The actuator can be plugged on the valve by hand (Caution! Just vertical movements Pins must match the holes on the flange. The mounting orientation in relation to the valve can be selected in 180° increments. (Possible two times)Manual overrideClick out the actuator and rotate the valve stem with the help of the actuator.
Manual override Click out the actuator and rotate the valve stem with the help of the actuator.
Adjustable angle of rotation The angle of rotation of the actuator can be changed by clip in 2.5° increments. This used to set the maximum flow rate of the valve.
High functional reliability The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached.
kv setting Adjustable kv-values (C2Q) / Vmax-values (C2QP (T)) are given in the respective zone valve data sheets.

2-way valve: Remove end stop clip and place at desired position.3-way valve: Remove end stop clip (change-over application).



Electrical installation

	ower supply voltage! nnection of other actuators possible. Observe the performance data.
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Cable colours:

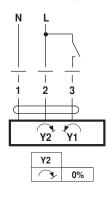
1 = blue

2 = brown

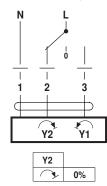
3 = white

Wiring diagrams

AC 230 V, open-close



AC 230 V, 3-point



Cable colours:

1 = blue2 = brown

3 =white

Rotary actuator (ZoneTight), Open-close, 3-point, AC 230 V, 1 Nm



Installation notes			
	Maintenance	Ball valves and rotary actuators are maintenance-free. Before any service work on the final controlling device is carried out, it is essential to isolate the rotary actuator from the power supply (by unplugging the electrical cable if necessary). Any pumps in the part of the piping system concerned must also be switched off and the appropriate slide valves closed (allow all components to cool down first if necessary and allways reduce the system pressure to ambient pressure level). The system must not be returned to service until the ball valve and the rotary actuator have been correctly reassembled in accordance with the instructions and the pipeline has been refilled by professionally trained personnel.	
Dimensions [mm]			
		Dimensional drawings	



- Overview Valve-actuator combinations
- · Data sheet for zone valves

51

· Installation instruction for zone valves and actuators

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General notes for project planning