

# **Technical data sheet**

Rotary actuator with emergency control function for ball valves

- Nominal torque 20 Nm
- Nominal voltage AC 230 V
- Control Open-close
- with 2 integrated auxiliary switches
- Deenergised open (NO)

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**Technical data** 

	Ambient temperature	-3050°C
		3
		2.5 kV
		2.5 kV
	Mode of operation	Type 1.AA.B
		14 and CAN/CSA E60730-1:02
		cULus according to UL 60730-1A, UL 60730-2-
		IEC/EN 60730-1 and IEC/EN 60730-2-14
		CE according to 2004/108/EC CE according to 2006/95/EC
		NEMA 2, UL Enclosure Type 2 CE according to 2004/108/EC
		-
		II Protective insulated
		Il Protective insulated
Satety		Il Protective insulated
Ontela		
		Min. 60,000 emergency positions
		Mechanical
		45 dB(A)
		<pre>&lt;20 s / 90°</pre>
	· · · · · · · · · · · · · · · · · · ·	75 s / 90°
		90°
	· · · · ·	By means of hand crank and locking switch
		Deenergised NO, valve open (A - AB = 100%)
i unctional data	· · · ·	Min. 20 Nm
Functional data	Torque motor	Min. 20 Nm
	Parallel operation	Yes (note the performance data)
		Cable 1 m, 6 x 0.75 mm <sup>2</sup>
		Cable 1 m, 2 x 0.75 mm <sup>2</sup>
		1 mA3 (0.5) A, AC 250 V
		2 x SPDT, 1 x 10% / 1 x 1190%
		18 VA
LC		3.5 W
		AC 195264 V 6.5 W
		50/60 Hz
Electrical data	Nominal voltage	AC 230 V
	Functional data Safety	Nominal voltage frequencyNominal voltage rangeFover consumption in operationPower consumption in rest positionPower consumption for wire sizingAuxiliary switchSwitching capacity auxiliary switchConnection supply / controlConnection auxiliary switchParallel operationFunctional dataTorque motorTorque spring returnDirection of rotation spring-returnManual overrideAngle of rotationRunning time emergency setting positionSound power level motor max.Position indicationService lifeSafetyProtection class IEC/ENProtection class ULProtection class ULProtection class uxiliary switch IEC/ENDegree of protection NEMA/ULEMCLow voltage directiveCertification IEC/ENCertification ULMode of operationRated impulse voltage supply / controlRated impulse voltage auxiliary switchControl pollution degree

Safety notes



This device has been designed for use in stationary heating, ventilation and air conditioning systems and is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
Caution: Power supply voltage!

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Rotary spring-return actuator, Open-close, AC 230 V, 20 Nm, with 2 integrated auxiliary switches



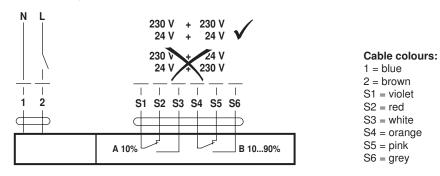
Safety notes	
	<ul> <li>Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.</li> <li>The device may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.</li> <li>Cables must not be removed from the device.</li> <li>The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.</li> <li>The two switches integrated in the actuator are to be operated either on power supply voltage or at safety extra-low voltage. The combination power supply voltage/ safety extra-low voltage is not permitted.</li> </ul>
Product features	ader
Mode of operation	The actuator moves the valve to the operating position at the same time as tensioning the return spring. The valve is turned back to the emergency position by spring force when the supply voltage is interrupted.
Direct mounting	Simple direct mounting on the ball valve with only one screw. The mounting orientation in relation to the ball valve can be selected in 90° steps.
Manual override	Manual actuation of the valve with manual elevator crank, engagement with the locking switch at any position. Unlocking is manual or automatic by applying the operating voltage.
High functional reliability	The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached.
Adjustable angle of rotation	Adjustable angle of rotation with mechanical end stop.
Flexible signalization	The actuator has one auxiliary switch with a fixed setting and one adjustable auxiliary switch. They permit a 10% or 1190% angle of rotation to be signaled.

### **Electrical installation**

Notes	<ul> <li>Caution: Power supply voltage!</li> <li>Parallel connection of other actuators possible. Observe the performance data.</li> </ul>
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## Wiring diagrams

AC 230 V, open-close

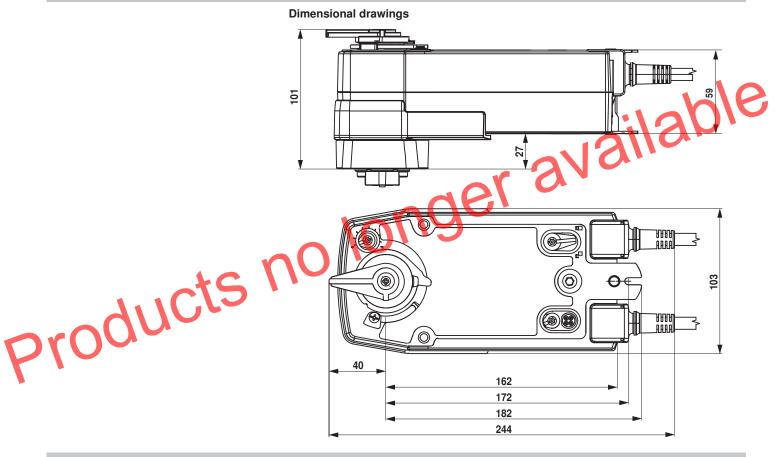


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## **Dimensions** [mm]



### **Further documentation**

- Overview Valve-actuator combinations
- Data sheets for ball valves
- · Installation instructions for actuators and/or ball valves
- · General notes for project planning