

## **Technical data sheet**

#### SuperCap rotary actuator with emergency control function and extended functionalities in the IP66 protective housing for adjusting dampers in technical building installations and in laboratories

- Air damper size up to approx. 8 m<sup>2</sup>
- Nominal torque 40 Nm
- Nominal voltage AC/DC 24 V
- Control Open-close
- Design life SuperCaps: 15 years
- Optimum weather protection for use outdoors (for use in ambient temperatures up to -40°C, there is a separate actuator available with built-in heater ex works)

#### **Technical data**



Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V
	Power consumption in operation	11 W
	Power consumption in rest position	3 W
	Power consumption for wire sizing	21 VA
	Connection supply / control	Cable 1 m, 3 x 0.75 mm <sup>2</sup> (halogen-free)
	Parallel operation	Yes (note the performance data)
Free attacks	· · · ·	
Functional data	Torque motor	Min. 40 Nm
	Setting emergency setting position (POP)	0100%, adjustable in increments of 10% (POP rotary knob on 0 corresponds to left end <u>stop</u> )
	Bridging time (PF)	2 s
	Direction of motion motor	Selectable with switch 0 (ccw rotation) / 1 (cw rotation)
	Direction of motion emergency control function	Selectable with switch 0100%
	Manual override	Gear disengagement with push-button (under protective housing)
	Angle of rotation	Max. 95°
	Angle of rotation note	can be limited on both sides with adjustable mechanical end stops
	Running time motor	150 s / 90°
	Running time emergency control position	35 s /90°
	Running time emergency setting position note	<35 s @ 050°C
	Sound power level motor	52 dB(A)
	Sound power level emergency control position	61 dB(A)
	Spindle driver	Universal spindle clamp 1426.7 mm
	Position indication	Mechanical
Safety	Protection class IEC/EN	III Safety extra-low voltage
culoty	Protection class UL	UL Class 2 Supply
	Degree of protection IEC/EN	IP66
	Degree of protection NEMA/UL	NEMA 4, UL Enclosure Type 4
	EMC	CE according to 2004/108/EC
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
	Certification UL	cULus according to UL 60730-1A, UL 60730-2 14 and CAN/CSA E60730-1:02
	Mode of operation	Type 1.AA
	Rated impulse voltage supply / control	0.8 kV
	Control pollution degree	4
	Ambient temperature	-3050°C
	Ambient temperature note	-4050°C for actuator with integrated heating
	Non-operating temperature	-4080°C
	Ambient humidity	100% r.h.
	Maintenance	Maintenance-free
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# RobustLine SuperCap actuator, IP66, Open-close, AC/DC 24 V, 40 Nm



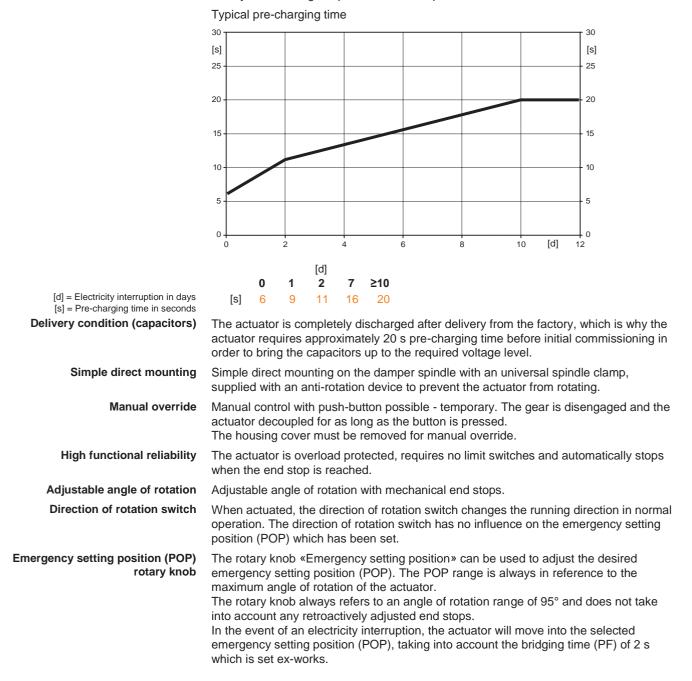
Technical data				
Weight	Weight approx.	4.5 kg		
Terms	Abbreviations	POP = Power off position / emergency setting position PF = Power fail delay time / bridging time		
Safety notes				
	<ul> <li>The device must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.</li> <li>Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.</li> <li>Junction boxes must at least correspond with enclosure IP degree of protection!</li> <li>The cover of the protective housing may be opened for adjustment and servicing. When it is closed afterwards, the housing must seal tight (see installation instructions).</li> <li>The device may only be opened in the manufacturer's factory. It does not contain any parts that can be replaced or repaired by the user.</li> <li>The cables must not be removed from the device installed in the interior.</li> <li>To calculate the torque required, the specifications supplied by the damper manufacturers concerning the cross-section, the design, the installation site and the ventilation conditions must be observed.</li> <li>The device contains electrical and electronic components and must not be dispose of as household refuse. All locally valid regulations and requirements must be observed.</li> <li>The actuator is not designed for applications where chemical influences (gases, fluids) are present or for utilisation in corrosive environments in general.</li> <li>The actuator may not be used in plenary applications (e.g. suspended ceilings or raised floors).</li> <li>The materials used may be subjected to external influences (temperature, pressu construction fastening, effect of chemical substances, etc.), which cannot be simulated in laboratory tests or field trials. In case of doubt, we definitely recomment that you carry out a test. This information does not imply any legal entitlement. Belimo will not be held liable and will provide no warranty.</li> <li>If cables which are not authorised for UL (NEMA) Type 4 applications are guided of the unit, then flexible metallic cable conduits or suitable threaded cable cond</li></ul>			
Product features Fields of application	protected against the fol - UV radiation - rain / snow - dirt / dust - Humidity - Changing atmosphere (recommendation: use th	rly suitable for utilisation in outdoor applications and is lowing weather conditions: / frequent and severe temperature fluctuations he actuator with integrated factory-installed heating which can o prevent internal condensation)		
Mode of operation				



#### **Product features**

Pre-charging time (start up)

The capacitor actuators require a pre-charging time. This time is used for charging the capacitors up to a usable voltage level. This ensures that, in the event of an electricity interruption, the actuator can move at any time from its current position into the preset emergency setting position (POP). The duration of the pre-charging time depends mainly on how long the power was interrupted.





## Accessories

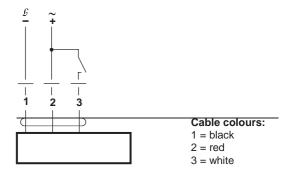
	Description	Туре
Electrical accessories	Auxiliary switch, add-on, 1 x SPDT	S1A
	Auxiliary switch, add-on, 2 x SPDT	S2A
	Feedback potentiometer 140 Ohm, add-on	P140A
	Feedback potentiometer 200 Ohm, add-on	P200A
	Feedback potentiometer 500 Ohm, add-on	P500A
	Feedback potentiometer 1 kOhm, add-on	P1000A
	Feedback potentiometer 2.8 kOhm, add-on	P2800A
	Feedback potentiometer 5 kOhm, add-on	P5000A
	Feedback potentiometer 10 kOhm, add-on	P10000A
	Description	Туре
echanical accessories	Cable gland, for cable diameter 4-10	Z-KB-PG11

#### **Electrical installation**

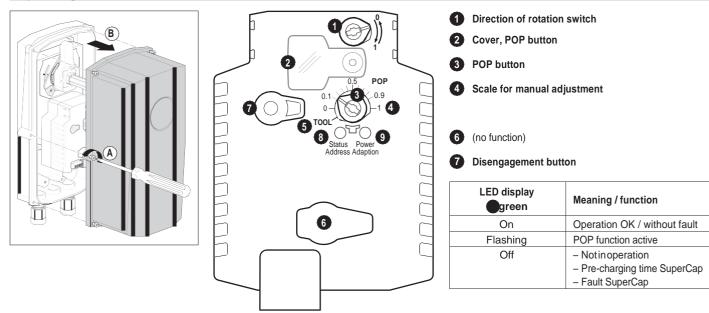
Notes	<ul> <li>Connection via safety isolating transformer.</li> <li>Parallel connection of other actuators possible. Observe the performance data.</li> </ul>
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#### Wiring diagrams

#### AC/DC 24 V, open-close



## **Operating controls and indicators**

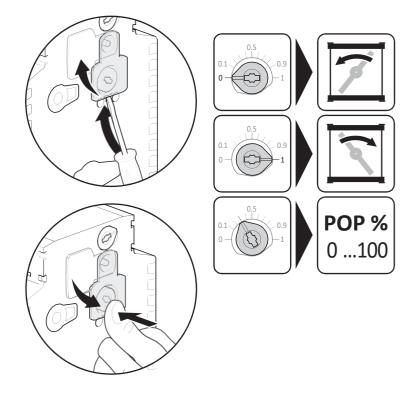


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**Operating controls and indicators** 

Setting emergency setting position (POP)



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## Dimensions [mm]

## Spindle length



