

Rotary actuator for rotary valves and butterfly valves

- Torque motor 40 Nm Nominal voltage AC/DC 24 V
- Control Open/close
- Running time motor 35 s
- Optimum weather protection for use outdoors



# Technical data

Nominal voltage frequency50/60 HzNominal voltage rangeAC 19.228.8 V / DC 21.628.8 VPower consumption in operation8 WPower consumption for wire sizing11 VAConnection supply / controlCable 1 m, 3x 0.75 mm² (halogen-free)Parallel operationYes (note the performance data)Functional dataTorque motor40 NmManual overridewith push-button, can be lockedRunning time motor35 s / 90°Sound power level, motor35 dB(A)Position indicationYesPower consure ULClass 2 SupplyDegree of protection IEC/ENIII, Safety Extra-Low Voltage (SELV)Power source ULClass 2 SupplyDegree of protection IEC/ENIP66/67Degree of protection IEC/ENIP66/67Degree of protection IEC/ENIEC/EN 60730-1 and IEC/EN 60730-2-14UL ApprovalCULus according to UL60730-14, UL60730-2-14UL ApprovalCULus according to UL60730-14, UL00730-2-14UL ApprovalCULus according to UL60730-14, UL00730-2-14UL ApprovalCULus according to UL60730-14UL ApprovalCULus according to UL60730-14WeiphtMax. 100% RHAmbient tumidityMax. 100% RHAmbient temperature-3050°C (-2212°F]Ambient temperature-4080°C (-40176°F]Servicingmaintenance-freeMechanical dataConnection flangeWeight3.3 kg	Electrical data	Nominal voltage	AC/DC 24 V
Power consumption in operation       8 W         Power consumption in rest position       2.5 W         Power consumption for wire sizing       11 VA         Connection supply / control       Cable 1 m, 3x 0.75 mm² (halogen-free)         Parallel operation       Yes (note the performance data)         Functional data       Torque motor       40 Nm         Manual override       with push-button, can be locked         Running time motor       35 s / 90°         Sound power level, motor       35 dB(A)         Position indication       Yes         Power source UL       Class 2 Supply         Degree of protection IEC/EN       IP66/67         Degree of protection NEMA/UL       NEMA 4X         Enclosure       UL Enclosure Type 4X         EMC       CE according to 2014/30/EU         Certification IEC/EN       IEC/EN 60730-1 and IEC/EN 60730-2-14         UL Approval       cULus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1         The UL marking on the actuator depends on the production site, the device is UL-compliant in any case         Type of action       Type 1         Rated impulse voltage supply / control       0.8 kV         Pollution degree       4         Ambient temperature note       -30S0°C (r 22122°F]		Nominal voltage frequency	50/60 Hz
Power consumption in rest position       2.5 W         Power consumption for wire sizing       11 VA         Connection supply / control       Cable 1 m, 3x 0.75 mm² (halogen-free)         Parallel operation       Yes (note the performance data)         Functional data       Torque motor       40 Nm         Manual override       with push-button, can be locked         Running time motor       35 s / 90°         Sound power level, motor       35 dB(A)         Position indication       Yes         Postetion indication       Yes         Power consumption IEC/EN       III, Safety Extra-Low Voltage (SELV)         Power source UL       Class 2 Supply         Degree of protection IEC/EN       IP66/67         Degree of protection NEMA/UL       NEMA 4X         Enclosure       UL Enclosure Type 4X         EMC       CE according to 2014/30/EU         Certification IEC/EN       IEC/EN 60730-1 and IEC/EN 60730-2-14         UL Approval       cULus according to UL60730-14         UL Approval       cULus according to UL60730-14         UL Approval       cULus according to UL60730-14         Type of action       Type 1         Rated impulse voltage supply / control       0.8 kV         Pollution degree       4		Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V
Power consumption for wire sizing       11 VA         Connection supply / control       Cable 1 m, 3x 0.75 mm² (halogen-free)         Parallel operation       Yes (note the performance data)         Functional data       Torque motor       40 Nm         Manual override       with push-button, can be locked         Running time motor       35 s / 90°         Sound power level, motor       35 dB(A)         Position indication       Yes         Safety data       Protection class IEC/EN       III, Safety Extra-Low Voltage (SELV)         Power source UL       Class 2 Supply       Degree of protection IEC/EN       IP66/67         Degree of protection IEC/EN       IP66/67       Degree of protection IEC/EN       IEC/EN 60730-1 and IEC/EN 60730-2-14         UL Approval       CULus according to 2014/30/EU       Certification IEC/EN       IEC/EN 60730-1         UL Approval       CULus according to UL60730-1A, UL60730-2-14       IL Approval         Type of action       Type 1       Rated impulse voltage supply / control       0.8 kV         Pollution degree       4       Ambient temperature       -3050°C [-22122°F]         Ambient temperature       -3050°C (-22122°F]       Ambient temperature       -4080°C (-40176°F]         Servicing       maintenance-free       -4050°C for		Power consumption in operation	8 W
Connection supply / control       Cable 1 m, 3x 0.75 mm² (halogen-free)         Parallel operation       Yes (note the performance data)         Functional data       Torque motor       40 Nm         Manual override       with push-button, can be locked         Running time motor       35 s / 90°         Sound power level, motor       35 dB(A)         Position indication       Yes         Safety data       Protection class IEC/EN       III, Safety Extra-Low Voltage (SELV)         Power source UL       Class 2 Supply         Degree of protection IEC/EN       IP66/67         Degree of protection NEMA/UL       NEMA 4X         Enclosure       UL Enclosure Type 4X         EMC       CE according to 2014/30/EU         Certification IEC/EN       IEC/EN 60730-1 and IEC/EN 60730-2-14         UL Approval       cULus according to UL00730-1A, UL00730-2-14         UL Approval       cULus according to UL00730-1A, UL00730-2-14         Type of action       Type 1         Rated impulse voltage supply / control       0.8 kV         Pollution degree       4         Ambient tumidity       Max. 100% RH         Ambient temperature       -3050°C (-22122°F)         Ambient temperature       -4080°C (-40176°F)         Ser		Power consumption in rest position	2.5 W
Parallel operation       Yes (note the performance data)         Functional data       Torque motor       40 Nm         Manual override       with push-button, can be locked         Running time motor       35 s / 90°         Sound power level, motor       35 dB(A)         Position indication       Yes         Safety data       Protection class IEC/EN       III, Safety Extra-Low Voltage (SELV)         Power source UL       Class 2 Supply         Degree of protection IEC/EN       IP66/67         Degree of protection NEMA/UL       NEMA 4X         Enclosure       UL Enclosure Type 4X         EMC       CE according to 2014/30/EU         Certification IEC/EN       IEC/EN 60730-1 and IEC/EN 60730-2-14         UL Approval       CULus according to UL60730-14, UL60730-2-14         UL Approval       CULus according to UL60730-17, UL60730-2-14         UL Approval       CULus according to UL60730-17, UL60730-2-14         The UL marking on the actuator depends on the production site, the device is UL-compliant in any case         Type of action       Type 1         Rated impulse voltage supply / control       0.8 kV         Pollution degree       4         Ambient humidity       Max. 100% RH         Ambient temperature note       -4050°C for actuator w		Power consumption for wire sizing	11 VA
Functional data       Torque motor       40 Nm         Manual override       with push-button, can be locked         Running time motor       35 s / 90°         Sound power level, motor       35 dB(A)         Position indication       Yes         Safety data       Protection class IEC/EN       III, Safety Extra-Low Voltage (SELV)         Power source UL       Class 2 Supply         Degree of protection IEC/EN       IP66/67         Degree of protection NEMA/UL       NEMA 4X         Enclosure       UL Enclosure Type 4X         EMC       CE according to 2014/30/EU         Certification IEC/EN       IEC/EN 60730-1 and IEC/EN 60730-2-14         UL Approval       cULus according to UL60730-1A, UL60730-2-14         UL Approval       cULus according to 101/30/EU         Enclosure       The UL marking on the actuator depends on the production site, the device is UL-compliant in any case         Type of action       Type 1         Rated impulse voltage supply / control       0.8 kV         Pollution degree       4         Ambient humidity       Max. 100% RH         Ambient temperature note       -4050°C for actuator with integrated heating Storage temperature         Storage temperature       -4080°C [-40176°F]         Servicing <t< td=""><th></th><td>Connection supply / control</td><td>Cable 1 m, 3x 0.75 mm<sup>2</sup> (halogen-free)</td></t<>		Connection supply / control	Cable 1 m, 3x 0.75 mm <sup>2</sup> (halogen-free)
Manual override       with push-button, can be locked         Running time motor       35 s / 90°         Sound power level, motor       35 dB(A)         Position indication       Yes         Safety data       Protection class IEC/EN       III, Safety Extra-Low Voltage (SELV)         Power source UL       Class 2 Supply         Degree of protection IEC/EN       IP66/67         Degree of protection NEMA/UL       NEMA 4X         Enclosure       UL Enclosure Type 4X         EMC       CE according to 2014/30/EU         Certification IEC/EN       IEC/EN 60730-1 and IEC/EN 60730-2-14         UL Approval       cULus according to UL60730-1A, UL60730-2-14         Multi Approval       culti and CAN/CSA E60730-1		Parallel operation	Yes (note the performance data)
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Sound power level, motor       35 dB(A)         Position indication       Yes         Safety data       Protection class IEC/EN       III, Safety Extra-Low Voltage (SELV)         Power source UL       Class 2 Supply         Degree of protection IEC/EN       IP66/67         Degree of protection NEMA/UL       NEMA 4X         Enclosure       UL Enclosure Type 4X         EMC       CE according to 2014/30/EU         Certification IEC/EN       IEC/EN 60730-1 and IEC/EN 60730-2-14         UL Approval       cULus according to UL60730-1A, UL60730-2-14         UL Approval       cULus according to 0160730-1A, UL60730-2-14         UL Approval       cULus according to UL60730-1         The UL marking on the actuator depends on the production site, the device is UL-compliant in any case         Type of action       Type 1         Rated impulse voltage supply / control       0.8 kV         Pollution degree       4         Ambient humidity       Max. 100% RH         Ambient temperature       -3050°C [-22122°F]         Ambient temperature note       -4050°C for actuator with integrated heating         Storage temperature       -4080°C [-40176°F]         Servicing       maintenance-free		Manual override	with push-button, can be locked
Position indicationYesSafety dataProtection class IEC/ENIII, Safety Extra-Low Voltage (SELV)Power source ULClass 2 SupplyDegree of protection IEC/ENIP66/67Degree of protection NEMA/ULNEMA 4XEnclosureUL Enclosure Type 4XEMCCE according to 2014/30/EUCertification IEC/ENIEC/EN 60730-1 and IEC/EN 60730-2-14UL ApprovalcULs according to UL60730-1A, UL60730-2-14UL ApprovalcULs according to UL60730-1A, UL60730-2-14Type of actionType 1Rated impulse voltage supply / control0.8 kVPollution degree4Ambient humidityMax. 100% RHAmbient temperature-3050°C [-22122°F]Ambient temperature note-4080°C [-40176°F]Servicingmaintenance-freeMechanical dataConnection flangeF05		Running time motor	35 s / 90°
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Degree of protection IEC/EN       IP66/67         Degree of protection NEMA/UL       NEMA 4X         Enclosure       UL Enclosure Type 4X         EMC       CE according to 2014/30/EU         Certification IEC/EN       IEC/EN 60730-1 and IEC/EN 60730-2-14         UL Approval       cULus according to UL60730-1A, UL60730-2-14         UL Approval       cULus according to UL60730-1A, UL60730-2-14         The UL marking on the actuator depends on the production site, the device is UL-compliant in any case         Type of action       Type 1         Rated impulse voltage supply / control       0.8 kV         Pollution degree       4         Ambient humidity       Max. 100% RH         Ambient temperature       -3050°C [-22122°F]         Ambient temperature       -4080°C [-40176°F]         Servicing       maintenance-free         Mechanical data       Connection flange	Safety data	Protection class IEC/EN	III, Safety Extra-Low Voltage (SELV)
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EnclosureUL Enclosure Type 4XEMCCE according to 2014/30/EUCertification IEC/ENIEC/EN 60730-1 and IEC/EN 60730-2-14UL ApprovalcULus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1 The UL marking on the actuator depends on the production site, the device is UL-compliant 		Degree of protection IEC/EN	IP66/67
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Certification IEC/EN       IEC/EN 60730-1 and IEC/EN 60730-2-14         UL Approval       cULus according to UL60730-1A, UL60730-2-14         and CAN/CSA E60730-1       The UL marking on the actuator depends on the production site, the device is UL-compliant in any case         Type of action       Type 1         Rated impulse voltage supply / control       0.8 kV         Pollution degree       4         Ambient humidity       Max. 100% RH         Ambient temperature       -3050°C [-22122°F]         Ambient temperature note       -4080°C [-40176°F]         Storage temperature       -4080°C [-40176°F]         Servicing       maintenance-free         Mechanical data       Connection flange		Enclosure	UL Enclosure Type 4X
UL ApprovalcULus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1 The UL marking on the actuator depends on the production site, the device is UL-compliant in any caseType of actionType 1Rated impulse voltage supply / control0.8 kVPollution degree4Ambient humidityMax. 100% RHAmbient temperature-3050°C [-22122°F]Ambient temperature note-4080°C [-40176°F]Storage temperature-4080°C [-40176°F]Servicingmaintenance-free		EMC	CE according to 2014/30/EU
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Mechanical data       Connection flange       the production site, the device is UL-compliant in any case         Type of action       Type 1         Rated impulse voltage supply / control       0.8 kV         Pollution degree       4         Ambient humidity       Max. 100% RH         Ambient temperature       -3050°C [-22122°F]         Ambient temperature note       -4050°C for actuator with integrated heating         Storage temperature       -4080°C [-40176°F]         Servicing       maintenance-free		UL Approval	-
in any case         Type of action       Type 1         Rated impulse voltage supply / control       0.8 kV         Pollution degree       4         Ambient humidity       Max. 100% RH         Ambient temperature       -3050°C [-22122°F]         Ambient temperature note       -4050°C for actuator with integrated heating         Storage temperature       -4080°C [-40176°F]         Servicing       maintenance-free         Mechanical data       Connection flange			The UL marking on the actuator depends on
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Ambient temperature note       -4050°C for actuator with integrated heating         Storage temperature       -4080°C [-40176°F]         Servicing       maintenance-free         Mechanical data       Connection flange       F05		•	
Storage temperature       -4080°C [-40176°F]         Servicing       maintenance-free         Mechanical data       Connection flange		· · · · · · · · · · · · · · · · · · ·	
Servicing     maintenance-free       Mechanical data     Connection flange     F05		· · · · · · · · · · · · · · · · · · ·	
Mechanical data Connection flange F05			
		Servicing	maintenance-free
Weight     Weight     3.3 kg	Mechanical data	Connection flange	F05
	Weight	Weight	3.3 kg



**Technical data** 

#### 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.

- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied with during installation.
- Junction boxes must at least correspond with enclosure IP degree of protection!
- 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).
- The switch for changing the direction of rotation may only be operated by authorised specialists. The direction of rotation must not in particular be reversed in a frost protection circuit.
- The angle of rotation is not permitted to be subjected to mechanical limitation. It is forbidden to alter the mechanical end stops.
- 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.
- 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.
- The device is not designed for applications where chemical influences (gases, fluids) are present or for utilisation in corrosive environments in general.
- The actuator may not be used in plenary applications (e.g. suspended ceilings or raised floors).
- The materials used may be subject to external influences (temperature, pressure, construction fastening, effect of chemical substances, etc.), which cannot be simulated in laboratory tests or field trials. In case of doubt, we definitely recommend 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.
- Flexible metallic cable conduits or threaded cable conduits of equal value are to be used for UL (NEMA) Type 4X applications.
- When used under high UV loads, e.g. extreme sunlight, the use of flexible metallic or equivalent cable conduits is recommended.

**Product features** 

Fields of application	The actuator is particularly suitable for utilisation in outdoor applications and is protected against the following weather conditions: - UV radiation - Rain / Snow - Dirt / Dust - Air humidity - Alternating climate / frequent and severe temperature fluctuations (Recommendation: use the actuator with integrated factory-installed heating which can be ordered separately to prevent internal condensation)
Simple direct mounting	Simple direct mounting on the rotary valve or butterfly valve with mounting flange. The mounting orientation in relation to the fitting can be selected in 90° steps.
Manual override	Manual override with push-button possible (the gear train is disengaged for as long as the button is pressed or remains locked). The housing cover must be removed for manual override.
Adjustable angle of rotation	Adjustable angle of rotation with mechanical end stops. Standard setting 090°. The housing cover must be removed to set the angle of rotation.
High functional reliability	The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached.



#### Accessories

Electrical accessories	Description	Туре
	Auxiliary switch 2x SPDT add-on, grey	S2A GR
	Feedback potentiometer 140 $\Omega$ add-on	P140A
	Feedback potentiometer 1 k $\Omega$ add-on	P1000A
	Feedback potentiometer 10 k $\Omega$ add-on	P10000A
Options ex works only	Description	Туре
	Heater, with adjustable thermostat	HT24-MG
	Heater, with mechanical humidistat	HH24-MC

## **Electrical installation**



## Supply from isolating transformer.

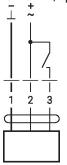
Parallel connection of other actuators possible. Observe the performance data. Direction of rotation switch is covered. Factory setting: Direction of rotation Y2.

#### Wire colours:

1 = black 2 = red 3 = white

### Wiring diagrams

AC/DC 24 V, open/close  $\overline{\perp}$ 



1	2	3	逐逐
~	7	_/L	A - AB = 0%
4	7	7	A - AB = 100%



1

2

#### **Operating controls and indicators**

Adaption - 2 Power 3 Status 5

Direction of rotation switch

 Switch over:
 Direction of rotation changes

 Push-button and LED display green

 Off:
 No power supply or malfunction

 On:
 In operation

Press button: Triggers angle of rotation adaptation, followed by standard mode

### **3** Push-button and LED display yellow

Off:	Standard mode
On:	Adaptation or synchronisation process active
Press button:	No function

#### 4 Manual override button

Press button:Gear train disengages, motor stops, manual override possibleRelease button:Gear train engages, standard mode

## **5** Service plug

For connecting parametrisation and service tools

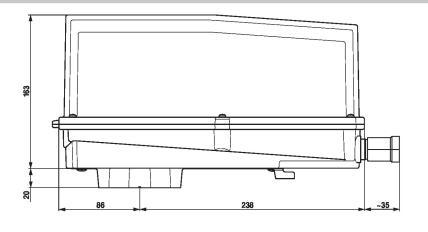
#### Check power supply connection

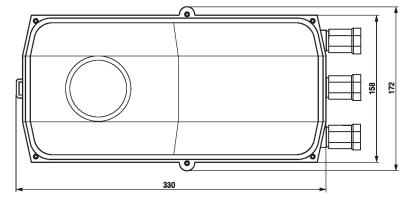


Possible wiring error in power supply



#### Dimensions





### **Further documentation**

- The complete product range for water applications
- Data sheets for rotary valves and butterfly valves
- Installation instructions for actuators and/or rotary valves and butterfly valves
- General notes for project planning