

ACVATIX ${ }^{\text {TM }}$

# Electromotoric actuators 

## SQL321B.. <br> SQL361B..

For VKF42.., VFF41... butterfly valves

- SQL321B.. Operating voltage AC 220 V , 2-position (SPDT) control signal
- SQL361B.. Operating voltage AC 220 V , $\mathrm{DC} 0(2) \ldots 10 \mathrm{~V}, 4 \ldots 20 \mathrm{~mA}$ control signal
- Optional auxiliary switch for SQL361B150...B6000
- Nominal angle of rotation $90^{\circ}$
- Handwheel and position indicator
- Built-in heating element to avoid condensation
- Compatible with EN ISO 5211 flanges

For operation of VKF42.., VFF41.. butterfly valves as shutoff and control valves in heating, ventilation and air conditioning plants.

Type summary

| Product No. | Stock No. | Operating Voltage | Positioning Signal | Position Feedback Signal | Positioning Time for $90^{\circ}$ at 50 Hz [s] | Nominal Torque [ Nm ] | Flange Connection EN ISO 5211 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SQL321B25 | S55164-A100 | AC 220 V <br> 1 phase | 2-position (SPDT) | Dual auxiliary switch | 11 | 25 | F07 |
| SQL321B50 | S55164-A101 |  | 2-position (SPDT) | Dual auxiliary switch | 11 | 25 | F07 |
| SQL321B150 | S55164-A103 |  | 2-position (SPDT) | Dual auxiliary switch | 11 | 25 | F07 |
| SQL321B270 | S55164-A105 |  | 2-position (SPDT) | Dual auxiliary switch | 22 | 50 | F07 |
| SQL321B570 | S55164-A107 |  | 2-position (SPDT) | Dual auxiliary switch | 22 | 50 | F07 |
| SQL321B1400 | S55164-A109 |  | 2-position (SPDT) | Dual auxiliary switch | 22 | 50 | F07 |
| SQL321B2650 | S55164-A111 |  | 2-position (SPDT) | Dual auxiliary switch | 39 | 150 | F07 |
| SQL321B6000 | S55164-A125 |  | 2-position (SPDT) | Dual auxiliary switch | 39 | 150 | F07 |
| SQL361B25 | S55164-A113 |  | DC 0(2)... $10 \mathrm{~V}, 4 \ldots 20 \mathrm{~mA}$ | $\mathrm{DC} 0(2) \ldots 10 \mathrm{~V},$ <br> $4 \ldots 20 \mathrm{~mA}$, dual auxiliary switch | 39 | 150 | F07 |
| SQL361B50 | S55164-A102 |  | DC 0(2)... $10 \mathrm{~V}, 4 \ldots 20 \mathrm{~mA}$ | $\mathrm{DC} 0(2) \ldots 10 \mathrm{~V},$ <br> $4 \ldots 20 \mathrm{~mA}$, dual auxiliary switch | 39 | 270 | F10 |
| SQL361B150 | S55164-A104 |  | DC 0(2)... $10 \mathrm{~V}, 4 \ldots 20 \mathrm{~mA}$ | $\text { DC } 0 \text { (2)... } 10 \mathrm{~V} \text {, }$ <br> 4... 20 mA , dual auxiliary switch | 39 | 270 | F10 |
| SQL361B270 | S55164-A106 |  | DC 0(2)... $10 \mathrm{~V}, 4 \ldots 20 \mathrm{~mA}$ | $\text { DC } 0 \text { (2)... } 10 \text { V, }$ <br> $4 \ldots 20 \mathrm{~mA}$, dual auxiliary switch | 39 | 270 | F10 |
| SQL361B570 | S55164-A108 |  | DC 0(2)... $10 \mathrm{~V}, 4 \ldots 20 \mathrm{~mA}$ | $\text { DC } 0 \text { (2)... } 10 \text { V, }$ <br> $4 \ldots 20 \mathrm{~mA}$, dual auxiliary switch | 47 | 570 | F12/F10 |
| SQL361B1400 | S55164-A110 |  | DC 0(2)... $10 \mathrm{~V}, 4 \ldots 20 \mathrm{~mA}$ | $\mathrm{DC} 0(2) \ldots 10 \mathrm{~V},$ <br> 4... 20 mA , dual auxiliary switch | 47 | 570 | F12/F10 |
| SQL361B2650 | S55164-A112 |  | DC 0(2)... $10 \mathrm{~V}, 4 \ldots 20 \mathrm{~mA}$ | $\text { DC } 0 \text { (2)... } 10 \text { V, }$ <br> $4 \ldots 20 \mathrm{~mA}$, dual auxiliary switch | 47 | 570 | F12/F10 |
| SQL361B6000 | S55164-A126 |  | DC 0(2)... $10 \mathrm{~V}, 4 \ldots 20 \mathrm{~mA}$ | $\text { DC } 0 \text { (2)... } 10 \text { V, }$ <br> $4 \ldots 20 \mathrm{~mA}$, dual auxiliary switch | 47 | 1400 | F14 |

## Ordering

|  | The actuator, butt When ordering, | valve and any a the quantity, pr | sories must be ordered name and product num |  |
| :---: | :---: | :---: | :---: | :---: |
| Example | Product No. | Stock No. | Description | Quantity |
|  | SQL361B150 | S55164-A104 | Electromotoric actuator | 1 |
|  | ASC10.21 | S55845-Z122 | Double auxiliary switch | 1 |
| Delivery | The actuator, acc individual items. | and butterfly | re packed separately a | ivered as |
| Rev. No. | See chapter "Rev. | on page 13. |  |  |

Equipment combinations

|  | Electromotoric Actuators ${ }^{1)}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SQL321B25 SQL361B25 | SQL321B50 SQL361B50 | $\begin{aligned} & \hline \text { SQL321B150 } \\ & \text { SQL361B150 } \end{aligned}$ | $\begin{aligned} & \hline \text { SQL321B270 } \\ & \text { SQL361B270 } \end{aligned}$ | SQL321B570 SQL361B570 | $\begin{aligned} & \text { SQL321B1400 } \\ & \text { SQL361B1400 } \end{aligned}$ | $\begin{aligned} & \text { SQL321B2650 } \\ & \text { SQL361B2650 } \end{aligned}$ |
| Butterfly Valve | $\Delta \mathrm{p}_{\mathrm{s}}[\mathrm{kPa}]$ |  |  |  |  |  |  |
| VKF42.50 | 700 |  |  |  |  |  |  |
| VKF42.65 | 700 |  |  |  |  |  |  |
| VKF42.80 | 700 |  |  |  |  |  |  |
| VKF42.100 |  | 700 |  |  |  |  |  |
| VKF42.125 |  | 700 |  |  |  |  |  |
| VKF42.150 |  | 700 |  |  |  |  |  |
| VKF42.200 |  |  | 700 |  |  |  |  |
| VKF42.250 |  |  |  | 700 |  |  |  |
| VKF42.300 |  |  |  | 700 |  |  |  |
| VKF42.350 |  |  |  |  | 700 |  |  |
| VKF42.400 |  |  |  |  | 700 |  |  |
| VKF42.450 |  |  |  |  |  | 700 |  |
| VKF42.500 |  |  |  |  |  | 700 |  |
| VKF42.600 |  |  |  |  |  |  | 700 |


|  | Electromotoric Actuators ${ }^{1)}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SQL321B25 SQL361B25 | $\begin{aligned} & \text { SQL321B50 } \\ & \text { SQL361B50 } \end{aligned}$ | $\begin{aligned} & \hline \text { SQL321B150 } \\ & \text { SQL361B150 } \end{aligned}$ | $\begin{aligned} & \hline \text { SQL321B270 } \\ & \text { SQL361B270 } \end{aligned}$ | SQL321B570 SQL361B570 | $\begin{aligned} & \text { SQL321B1400 } \\ & \text { SQL361B1400 } \end{aligned}$ | $\begin{aligned} & \text { SQL321B2650 } \\ & \text { SQL361B2650 } \end{aligned}$ | SQL321B6000 SQL361B6000 |
| Butterfly Valve | $\Delta \mathrm{p}_{\mathrm{s}}[\mathrm{kPa}]$ |  |  |  |  |  |  |  |
| VFF41.40 | 1000 |  |  |  |  |  |  |  |
| VFF41.50 | 1000 |  |  |  |  |  |  |  |
| VFF41.65 | 1000 |  |  |  |  |  |  |  |
| VFF41.80 | 1000 |  |  |  |  |  |  |  |
| VFF41.100 |  | 1000 |  |  |  |  |  |  |
| VFF41.125 |  | 1000 |  |  |  |  |  |  |
| VFF41.150 |  | 1000 |  |  |  |  |  |  |
| VFF41.200 |  |  | 1000 |  |  |  |  |  |
| VFF41.250 |  |  |  | 1000 |  |  |  |  |
| VFF41.300 |  |  |  | 1000 |  |  |  |  |
| VFF41.350 |  |  |  |  | 1000 |  |  |  |
| VFF41.400 |  |  |  |  | 1000 |  |  |  |
| VFF41.450 |  |  |  |  |  | 1000 |  |  |
| VFF41.500 |  |  |  |  |  | 1000 |  |  |
| VFF41.600 |  |  |  |  |  |  | 1000 |  |
| VFF41.700 |  |  |  |  |  |  | 1000 |  |
| VFF41.800 |  |  |  |  |  |  |  | 1000 |
| VFF41.900 |  |  |  |  |  |  |  | 1000 |

1) SQL321B.., SQL361B.. electromotoric actuators can be mounted directly on VKF42.. or VFF41.. butterfly valves.
$\Delta p_{s}$ Maximum permissible differential pressure at which the motorized butterfly valve will close securely against the pressure (close off pressure)

The actuator is driven by a 2-position (SPDT) or DC $0(2) \ldots 10 \mathrm{~V}, 4 \ldots 20 \mathrm{~mA}$ control signal from the controller and generates a rotary motion which is transferred to the butterfly valve via a driver.
These electromotoric actuators require no maintenance. They have a reversible asynchronous motor which drives the main shaft via gear train, which accommodates the diagonal square head of the butterfly valve. For SQL321B25, the coil spring is fitted with handwheel shaft, handwheel is engaged when pushed in. For others, the worm shaft is fitted with a direct-acting handwheel.

The actuators are $90^{\circ}$ rotated so as to work with Siemens VKF42.., VFF41.. butterfly valves. During automatic operation, rotation is stopped by two built-in end-switches. To prevent the temperature inside the housing from falling below the dew point temperature, the actuators are equipped with a built-in heating element.


1 Position indication
2 Terminal compartment
3 Cover (motor inside)

## Calibration SQL361B.

In order to determine the disc position fully closed "0 \%" or fully open "100 \%", calibration is recommended on initial commissioning of modulating type actuator.

## Prerequisites

- Actuator is mounted on butterfly valve
- Rotate the actuator to the half-open position using the handwheel
- Housing cover is removed

| $\begin{array}{\|l\|} \hline \text { Calibration } \\ \hline \text { 1. Supply power to } \\ \text { terminal } 1 \text { and } 2 . \\ \hline \end{array}$ | LED on PCB |  | Actuator Movement |
| :---: | :---: | :---: | :---: |
|  | (1) | Flash | Actuator moves to the position as indicated by control signal. (D4 flash) |
| 2.Press button S1 for 3 seconds | - 'é - | Lit | Actuator moves to "100 \%" position (valve open). (D4 light) |
|  | $\bigcirc$ | Flash once | Actuator stops at "100 \%" position (valve open), indicate light flashes (D6), and then the actuator is ready to move towards "0 \%"position (valve closed). |
|  | $\cdots$ | Flash once | Actuator moves to "0 \%" position (valve closed). (D7 flash once) |
|  | $\cdots$ | Flash | Actuator stops at " $0 \%$ " position (valve closed). The indicate light flashes (D4), and then the calibration finished. |
| 3. Calibration finished. | $\bigcirc$ | Flash | Actuator moves to the position as indicated by control signal. (D4 flash) |

W1, 20 mA calibration potentiometer


| Prerequisites |  |  |
| :---: | :---: | :---: |
| －Actuator is mounted on butterfly valve <br> －Rotate the actuator to the half－open position using the handwheel <br> －Housing cover is removed |  |  |
| Calibration | LED on PCB | Actuator Movement |
| 1．Supply power to terminal 1 and 2. | Lit | Actuator moves to the position as indicated by control signal． |
| 2．Press button S 1 for 3 seconds | Dark | Actuator moves to＂100 \％＂position（valve open）． |
|  | Flash once | Actuator stops at＂100 \％＂position（valve open）， indicate light flashes，and then the actuator is ready to move towards＂0 \％＂position（valve closed）． |
|  | O Dark | Actuator moves to＂0\％＂position（valve closed）． |
|  | Flash | Actuator stops at＂0 \％＂position（valve closed）．The indicate light flashes，and then the calibration fin－ ished． |
| 3．Calibration finished． | Lit | Actuator moves to the position as indicated by control signal． |
| S4，Signal loss mode settings <br> S3，Selection of Feedback Signal Types（0－10V 2－10V 4－20mA） <br> ／信号丢失模式设置 <br> ／选择反馈信号类型（0－10V 2－10V 4－20mA） |  |  |

Indication of operating state SQL361B..

SQL361B25.. 50

SQL361B150... 6000
$0 . .10 \mathrm{~V}$ and $4 . .20 \mathrm{~mA}$ signal SQL361B..

SQL361B25.. 50

The LED display indicating operating status can be viewed by opening the cover of the electronics module.

| Function | LED Indication |  | Remarks, troubleshooting |
| :---: | :---: | :---: | :---: |
|  | D10 | D4 |  |
| Calibration mode | OFF O | ON 首: | Run calibration, everything ok. ${ }^{1)}$ |
|  | ON - - - | Flashing | Calibration error. |
| Control mode | OFF O | Flashing | Automatic operation; everything o.k. ${ }^{11,2)}$ |
|  | ON -'é: | Flashing | Internal error, troubleshooting |
|  | OFF O | OFF O | No power <br> Troubleshooting, eventually replace actuator |

As a general rule, the LED can assume only the states shown above (continuously red, flashing, or off).
${ }^{1)}$ The Green LED (D6) with short lit on when reach to «100 \%» and the Red LED (D7) with short lit on when reach to «0 \%» stroke position.
2) When power supply to actuator but no $Y$ control signal and also calibration not started, LED will be continuously red too.

| Function | LED Indication | Remarks, troubleshooting |  |
| :--- | :--- | :---: | :--- |
| Calibration | Off | 0 | Run calibration, everything o.k. |
|  | Flashing |  | Calibration error |
|  | Lit |  | Automatic operation; everything o.k. ${ }^{1)}$ |
|  | Flashing |  | Internal error, troubleshooting |
|  | Off | No power |  |
| Troubleshooting, eventually replace actuator |  |  |  |

As a general rule, the LED can assume only the states shown above (continuously red, flashing, or off).
${ }^{1)}$ When power supply to actuator but no $Y$ control signal and also calibration not started, LED will be continuously red too.

- Factory setting for input and output signal in SQL361B.. is $0 . .10 \mathrm{~V}$.
- Select switch as below description.

| Signal | Input | Output |
| :---: | :---: | :---: |
|  | S3 | S2 |
| $0-10 \mathrm{~V}$ | $\square$ | $\square$ |
| $2-10 \mathrm{~V}$ | $\square$ | $\square$ |
| $4-20 \mathrm{~mA}$ | $\square$ | $\square$ |

- Factory setting for input and output signal in SQL361B.. is $0 . . .10 \mathrm{~V}$.
- Select switch as below description.

| Signal | Input | Output |
| :---: | :---: | :---: |
|  | S3 | SO |
| $0-10 \mathrm{~V}$ | $\square$ | $\square$ |
| $2-10 \mathrm{~V}$ | $\square$ | $\square$ |
| $4-20 \mathrm{~mA}$ | $\square$ | $\square$ |

## Accessories



Engineering notes
Electrical installation
The actuators must be electrically connected in accordance with local regulations and with the connection diagrams.

Warning


Regulations and requirements to ensure the safety of people and property must be always observed.

## Mounting notes

## Mounting instructions

| Product No. | Documentation No. |
| :--- | :--- |
| VKF42.. | 7431908080 (M4119) |
| VFF41.. | A5W00119634A (A6V12045430) |
| SQL321B.. / SQL361B.. | 7431908090 (M4520) |
| ASC10.. | $7431908100(M 4520.1)$ |

These actuators can be mounted directly on type VKF42.., VFF41.. butterfly valves. The butterfly valves have to be closed "0 \%" when the actuators are mounted onto the valves.

## Orientation

 The valve and actuator can be assembled on site. There is no need for special tools.

## Commissioning notes

Warning


When commissioning the motorized butterfly valves, always check wiring and test the functions. This also applies to any additional components fitted, e.g. auxiliary switch.

## Operating notes

## Manual operation mode

| SQL321B25...B50 <br> SQL361B25...B50 | Handwheel is engaged by pushing the handwheel in. |
| :--- | :--- |
| SQL321B150...B6000 | The handwheel is always engaged. |
| SQL361B150...B6000 |  |

## Reversing the direction of rotation

Setting the angle of rotation

## Maintenance notes

To avoid pressure shocks on the butterfly valve, the VKF42.., VFF41.. must be driven to its fully open position either manually or via positioning signal prior to activating the pumps).
The flow rate can be adjusted either by operating the electric actuators when necessary, or by operating the handwheel.
$\longrightarrow$

The actuators and butterfly valves require no maintenance.

Warning
Before performing any service work on the valve or actuator:

- Switch off the pump and power supply
- Close the main shut-off valves in the pipe work
- Release pressure in the pipes and allow them to cool down completely

If necessary, disconnect electrical connections from terminals.
The valve must be re-commissioned only with the handwheel or the actuator correctly assembled.

## Disposal



The device is considered electrical and electronic equipment for disposal in terms of the applicable European Directive and may not be disposed of as domestic garbage.

- Dispose of the device through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

The engineering data specified in chapter "Equipment combinations" (page 3) are only guaranteed in connection with the Siemens butterfly valves listed.

Note When using the actuators in connection with butterfly valves of other manufacture, correct functioning must be ensured by the user, and Siemens will assume no responsibility.

Technical data

|  |  | SQL321B25 | SQL321B50 | SQL321B150 | SQL321B270 | SQL321B570 | SQL321B1400 | SQL321B2650 | SQL321B6000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | SQL361B25 | SQL361B50 | SQL361B150 | SQL361B270 | SQL361B570 | SQL361B1400 | SQL361B2650 | SQL361B6000 |
| Power supply | Operating voltage Voltage tolerance | $\begin{gathered} \text { AC } 220 \mathrm{~V} / 1 \text { phase } \\ +/-10 \% \end{gathered}$ |  |  |  |  |  |  |  |
|  | Frequency | $50 / 60 \mathrm{~Hz}$ |  |  |  |  |  |  |  |
|  | Power consumption ${ }^{1)}$ | 45 VA | 45 VA | 91 VA | 165 VA | 194 VA | 390 VA | 436 VA | 670 VA |
| Signal inputs | Positioning signal | $\begin{aligned} & \text { SQL321...: 2P (SPDT) } \\ & \text { SQL361...: DC 0(2)... } 10 \text { V } 4 \ldots . .20 \mathrm{~mA} \end{aligned}$ |  |  |  |  |  |  |  |
|  | Parallel operation | For SQL321B.., it is not possible for electrical parallel operation of several actuators. <br> For SQL361B.. electrical parallel operation of several actuators is possible, and the specific quantity of actuator depends on the controller output. |  |  |  |  |  |  |  |
|  | Position feedback | SQL321B25..B6000SQL361B25..B50SQL361B150.., B6000 |  |  | Dual auxiliary switch (built-in) <br> DC 0 (2) ... $10 \mathrm{~V} / 4 \ldots 20 \mathrm{~mA}$, Dual auxiliary switch (built-in) <br> DC 0(2) ... $10 \mathrm{~V} / 4 \ldots 20 \mathrm{~mA}$ |  |  |  |  |
| Operating data | Positioning time for $90^{\circ}$ at 50 Hz | 11 s | 22 s | 39 s | 39 s | 47 s | 47 s | 105 s | 143 s |
|  | Angle of rotation | $90^{\circ} \pm 1^{\circ}$ (factory setting) |  |  |  |  |  |  |  |
|  | Nominal Torque ${ }^{1)}$ | 25 Nm | 50 Nm | 150 Nm | 270 Nm | 570 Nm | 1400 Nm | 2650 Nm | 6000 Nm |
|  | Switching capacity | AC 250 V , 5 A resistive |  | AC $250 \mathrm{~V}, 10$ A resistive |  |  |  |  |  |
|  | Heating element (built-in) | $\begin{aligned} & 220 \mathrm{~V} \\ & 2.0 \mathrm{~W} \end{aligned}$ |  | $\begin{aligned} & 220 \mathrm{~V} \\ & 7.5 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & 220 \mathrm{~V} \\ & 8.5 \mathrm{~W} \end{aligned}$ |  |  |  |  |
|  | Max. permissible medium temperature | $-10 \ldots 80^{\circ} \mathrm{C}$ |  |  |  |  |  |  |  |
| Degree of protection | Housing upright to horizontal | IP67 as per EN 60529 |  |  |  |  |  |  |  |
|  | Insulation class | Class I as per EN 60730 |  |  |  |  |  |  |  |
| Standards | EU conformity (CE) | A5W90000890* |  |  |  |  |  |  |  |
|  | RCM conformity | A5W90000886* |  |  |  |  |  |  |  |
| Environmental compatibility | The product environmental declaration CB1E4520en* contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal). |  |  |  |  |  |  |  |  |
|  | Flange / shaft connection | EN ISO 5211 |  |  |  |  |  |  |  |
|  | types to valve (top flange) | F07 |  |  | F10 | F12/F10 | F14 | F16 | F25 |
| Dimension weight | Dimensions | see "Dimensions", page 11, 12 |  |  |  |  |  |  |  |
|  | Weight | see "Dimensions", page 11, 12 |  |  |  |  |  |  |  |
|  | Cable glands | $2 \times \mathrm{Pg} 13.5$ |  |  | $2 \times \mathrm{Pg} 16$ |  |  |  |  |
| Materials | Housing base, yoke | Die-cast aluminum alloy |  |  |  |  |  | Housing: <br> Die-cast aluminum alloy Gear box: Cast Iron |  |
|  | Cover | Die-cast aluminum alloy |  |  |  |  |  |  |  |

1) These values apply at nominal voltage, ambient temperature of $20^{\circ} \mathrm{C}$ and at nominal running time.

* The documents can be downloaded from http://siemens.com/bt/download.


## General ambient conditions

|  | Operation <br> EN $60721-3-4$ | Transport <br> EN $60721-3-2$ | Storage <br> EN $60721-3-1$ |
| :--- | :---: | :---: | :---: |
| Environmental conditions | Class 4 K 1 | Class 2 K 2 | Class 1 K 3 |
| Temperature | $-20 \ldots 65^{\circ} \mathrm{C}$ | $-30 \ldots 65^{\circ} \mathrm{C}$ | $-5 \ldots 55^{\circ} \mathrm{C}$ |
| Humidity | $15 \ldots 100 \%$ r. h. | $<95 \%$ r. h. | $0 \ldots . .95 \%$ r. h. |

## SQL321..



|  | Pin | Terminal no. | Code | Meaning |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { 高然 } \\ & \frac{1}{2} \end{aligned}$ | Actuator AC 220 V | G | - | Grounding |
|  |  | 1 | N | System neutral |
|  |  | 2 | L | System potential, AC 220 V |
|  |  | 3 | Y14 | AC 220 V, control signal (open) |
|  |  | 4 | Y12 | AC 220 V, control signal (closed) |
|  | Auxiliary signal | A | Q13 | Auxiliary switch c2, open |
|  | feedback | B | Q14 | Auxiliary switch c2, open |
|  |  | C | Q23 | Auxiliary switch c1, close |
|  |  | D | Q24 | Auxiliary switch c1, close |

SQL361B25
SQL361B50

DC $0 \ldots 10 \mathrm{~V}$
$4 . . .20 \mathrm{~mA}$


## SQL361B150...

B6000


Accessory
ASC10.21


| Pin | Terminal no. | Code | Meaning |
| :---: | :---: | :---: | :---: |
| Actuator AC 220 V | G | - | Protective earth |
|  | 1 | N | Neutral |
|  | 2 | L | System potential, AC 220 V |
|  | 3 | Y | Positioning signal, DC 0(2)... $10 \mathrm{~V}, 4 . . .20 \mathrm{~mA}$ |
|  | 4,6 | M | Measuring neutral |
|  | 5 | U | Position feedback, DC 0(2)... $10 \mathrm{~V}, 4 . . .20 \mathrm{~mA}$ |
| Auxiliary signal feedback | A | Q13 | Auxiliary switch c2, open |
|  | B | Q14 | Auxiliary switch c2, open |
|  | C | Q23 | Auxiliary switch c1, close |
|  | D | Q24 | Auxiliary switch c1, close |

## Connection diagrams

SQL321B..


N1
Y1
L 1 phase AC 220 V
N
Q12, Q14
Y12
Y14
c1
c2 N4520V01

Controller
Actuator

Neutral
Controller contacts
Positioning signal (Closed)
Positioning signal (Open)

SQL361B..


N1

L 1 phase AC 220 V

U

Auxiliary dry contact switch, close
Auxiliary dry contact switch, open

Controller
Actuator

Neutral
Positioning signal DC $0(2) \ldots 10 \mathrm{~V}$, 4... 20 mA

Measuring neutral
Position feedback signal DC
$0(2) \ldots 10 \mathrm{~V}, 4 \ldots 20 \mathrm{~mA}$


| Product No. | A | E | F | H | $\mathbf{G}$ | $\varnothing 1$ | J | Weight碓 | EN ISO 5211 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SQL321B25 | 179 | 57 | 114 | 20 | 11 | 70 | 4-M8 | 3.6 | F07 |
| SQL361B25 | 209 | 57 | 114 | 20 | 11 | 70 | 4-M8 | 3.8 | F07 |
| SQL321B50 | 179 | 57 | 114 | 20 | 17 | 70 | 4-M8 | 3.6 | F07 |
| SQL361B50 | 209 | 57 | 114 | 20 | 17 | 70 | 4-M8 | 3.8 | F07 |



| Product No. | A | B | C | D | E | F | G | H | $\varnothing 1$ | J | Weight [kg] | EN ISO 5211 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SQL321B150 <br> SQL361B150 | 250 | 125 | 77 | 216 | 120 | 240 | 17 | 35 | 70 | 4-M8 | 11 | F07 |
| $\begin{aligned} & \text { SQL321B270 } \\ & \text { SQL361B270 } \end{aligned}$ | 307 | 187 | 105 | 260 | 145 | 280 | 22 | 55 | 102 | 4-M10 | 22 | F10 |
| $\begin{aligned} & \text { SQL321B570 } \\ & \text { SQL361B570 } \end{aligned}$ | 307 | 187 | 105 | 260 | 145 | 280 | 27 | 55 | $\begin{aligned} & 125 \\ & 102 \end{aligned}$ | $\begin{aligned} & \text { 4-M12 } \\ & \text { 4-M10 } \end{aligned}$ | 22 | F12/F10 |
| $\begin{aligned} & \text { SQL321B1400 } \\ & \text { SQL361B1400 } \end{aligned}$ | 310 | 242 | 119 | 293 | 161 | 346 | 36 | 65 | 140 | 4-M16 | 36 | F14 |



| Product No. | A | B | C | D | E | F | G | H | Ø I | J | Weight <br> $[k g]$ | EN ISO 5211 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SQL321B2650 <br> SQL361B2650 | 53 | 18 | 242 | 295 | 308 | 186 | 46 | 85 | 165 | $4-\mathrm{M} 20$ | 76 | F16 |

A $\geqslant 200 \mathrm{~mm}$ : For mounting, connection, operation, service, etc.

## Revision numbers

| Product No. | Valid from Rev. No. | Product No. | Valid from Rev. No. |
| :--- | :--- | :--- | :--- |
| SQL321B25 | ..D | SQL361B25 | ..A |
| SQL321B50 | ..E | SQL361B50 | ..E |
| SQL321B150 | ..D | SQL361B150 | ..D |
| SQL321B270 | ..D | SQL361B270 | ..D |
| SQL321B570 | ..D | SQL361B570 | ..D |
| SQL321B1400 | ..D | SQL361B1400 | ..D |
| SQL321B2650 | ..D | SQL361B2650 | ..D |
| SQL321B6000 | ..A | SQL361B6000 | ..A |

