## T 8331 EN

## Type 3374 Electric Actuator

CE CNE EFI

## Application

Electric actuator for plant engineering and HVAC


Fig. 1: Construction with integrated yoke (form B)


Fig. 2: Construction with ring nut (form A)

## Special features

The actuator is a linear actuator, which can be combined with Series V2001 and 240 as well as Types 3260 and 3214 Valves.

- Construction with integrated yoke or using an M30x1.5 ring nut including the necessary stem connecting parts
- Available with or without fail-safe action
- Actuator with "actuator stem extends" fail-action tested by the German technical surveillance association TÜV according to DIN EN 14597 in combination with various SAMSON valves
- Motor switched off by torque switches

1 Not in actuators with positioner and fail-safe action

- Mechanical override ${ }^{1}$
- No maintenance


## Versions

- Version with three-step signal
- Synchronous motor with maintenance-free planetary gear
- Version with positioner
- Stepper motor with maintenance-free planetary gear
- All function settings performed using a rotary pushbutton on the actuator
- Settings made using the TROVIS-VIEW software


## Options

- Limit contacts
- Mechanical
- Over a relay (version with positioner only)
- Resistance transmitters (version with three-step signal only)
- Two resistance transmitters with a resistance range from 0 to $1000 \Omega$
- Special version with three-key operation (version with positioner only)
- The actuator with positioner is not operated using the rotary pushbutton. Instead, keys on the cover are used for operation.
- This actuator version can be operated without having to remove the housing cover.
- Communication (version with positioner only)
- RS-485 module for Modbus RTU communication


## Design and principle of operation

The Type 3374 Electric Actuator is linear actuator, which is used in combination with SAMSON valves in industrial plants as well as in heating, ventilation and air-conditioning systems.
Depending on the actuator version, either a three-step signal or continuous signal issued by an electronic controller is used to control the electric actuator. The electric actuator consists of a reversible motor and a maintenance-free planetary gear with
ball screw drive. The motor is switched off by torque switches in the end positions or in case of overload.

## Fail-safe action

The Type 3374 Actuator is available with fail-safe action. The actuators with fail-safe action have a spring assembly and an electromagnet. The actuator is moved by the force of the spring to the fail-safe position when the electromagnet is deenergized. The direction of action depends on the actuator version and cannot be reversed.

## - "Actuator stem extends" fail-safe action:

The actuator stem extends upon supply voltage failure.

- "Actuator stem retracts" fail-safe action:

The actuator stem retracts upon supply voltage failure.

## Mechanical limit contacts

Mechanical limit contacts consist of two floating changeover switches. Their switching positions can be changed independently from one another by continuously adjustable cam disks.
The floating contacts can be used as either make or break contacts to influence the tasks of control equipment.

## Resistance transmitters

The actuator with three-step control signal can optionally be equipped with two resistance transmitters. They each consist of a potentiometer, which is linked to the gear of the actuator over gear wheels. The resistance value, which is proportional to the valve travel, can be used for position feedback.
It is possible to retrofit the resistance transmitter.


Fig. 3: Partial view with opened cover • Type 3374

## Attachment

Actuators with an integrated yoke are primarily combined with the following valves:

## For mounting on:

- Series V2001 (DN 15 to 50)
- Type 3214 (DN 65 to 100)
- Type 3260 (DN 65 to 80)
- Type 3260 (DN 100 to 150)


Fig. 4: For example, Type 3374-21 Electric Actuator, mounted on a Series V2001 Globe Valve


Fig. 5: Mounting • Version with integrated yoke

Actuator
1 Actuator yoke
Actuator stem
Stem connector
Plug stem
Nut

## Mounting on Series V2001 Valves (DN 65 to 100)

$\Rightarrow$ See Fig. 6 .
Types 3374-10/-11/-21/-31
Connection with yoke (form B)
Mounting on Series V2001 Valves (DN 65 to 100)


Fig. 6: Mounting • Version with actuator yoke and V2001 accessories

```
1 Actuator
2.1 Actuator yoke
3 Actuator stem
5 Plug stem
11 Screws
1) A spacer is required here to mount a Type 3323 Three-way Valve (DN 65 to 80).
```



Fig. 7: Mounting kit V2001

## i Note

The V2001 mounting kit is not included in the scope of delivery. It is available as an accessory (see "Parts for retrofitting and accessories").

## Construction with ring nut (form A)

Actuators with central attachment are primarily combined with valves that have their own yoke:

## For mounting on:

- Series 240
- Type 3214 balanced by a bellows (DN 125 to 250)
- Type 3260 (DN 65 to 100)
- Type 3260 (DN 100 to 150)

Types 3374-15,-17, $-25,-26,-27,-35,-36$ Connection with ring nut (form A) Mounting onto Series 240 Valves:


Fig. 8: Mounting on Series 240 Valves
Actuator
Bonnet
Actuator stem
Stem connector
Plug stem
Ring nut
Stem connector nut
Lock nut
Travel indicator scale

Mounting on Type 3214 Valve (DN 125 to 250)

Type 3374-15, -27
Connection with ring nut (form A)
Mounting on Type 3214 (DN 125 to 250 ), balanced by a bellows


Fig. 9: Mounting on Type 3214

[^0]
## Electrical connection

## Version with three-step signal



Fig. 10: Electrical connection


Fig. 11: Mechanical limit contacts


Fig. 12: Resistance transmitters

## Version with positioner



Fig. 13: Electrical connection

$\rightarrow$ Wire the input free of voltage.
${ }^{1)}$ Function configurable in cl 1 and cl 2
Fig. 14: Terminal assignment for 'Positioner' application


Fig. 15: Terminal assignment for 'PID controller' application


[^1]Fig. 16: Terminal assignment for 'PID controller' application • Temperature control


Fig. 17: Terminal assignment for 'Two-step mode' application


Fig. 18: Terminal assignment for 'Three-step mode' application with three-wire connection

## Options:



Fig. 21: Electronic limit contacts


Fig. 22: RS-485 interface


Fig. 23: RS-485 interface with external bus termination


Fig. 24: Assignment of the RJ-12 jack
$\qquad$


Wire inputs free of voltage.
${ }^{1)}$ Function configurable in cl 1 and cl 2
Fig. 19: Terminal assignment for 'Three-step mode' application with four-wire connection


Wire the input free of voltage.

1) Function configurable in c 11 and c 12

Fig. 20: Terminal assignment for 'Temperature closed-loop control upon input signal failure' application

## Technical data

Table 1: Technical data • General

| Type 3374 | -10 | -11 | -15 | -17 | -21 | -25 | -26 | -27 | -31 | -35 | -36 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Form ${ }^{11}$ | B |  | A |  | B | A |  |  | B | A |  |
| Fail-safe action | Without |  |  |  | Actuator stem extends |  |  |  | Actuator stem retracts |  |  |
| Testing according to DIN EN 14597 | - |  |  |  | $\checkmark$ |  |  |  | - |  |  |
| Rated travel in mm | 30 | 15 |  |  | 15 | 30 | 15 | 30 | 15 | 30 | 15 |
| Motor switch-off | Torque switches |  |  |  |  |  |  |  |  |  |  |
| Duty type | S1-100\% according to EN 60034-1 |  |  |  |  |  |  |  |  |  |  |
| Permissible temperature ranges ${ }^{2 /}$ |  |  |  |  |  |  |  |  |  |  |  |
| Ambient | 5 to $60^{\circ} \mathrm{C}$ |  |  |  |  |  |  |  |  |  |  |
| Storage | -25 to $+70^{\circ} \mathrm{C}$ |  |  |  |  |  |  |  |  |  |  |
| Material | Housing and cover: Plastic (glass-fiber reinforced PPO) |  |  |  |  |  |  |  |  |  |  |
| Safety |  |  |  |  |  |  |  |  |  |  |  |
| Degree of protection ${ }^{3 /}$ | IP54 according to EN 60529 when blanking plugs are inserted, IP65 with three approved cable glands ${ }^{4}$, suspended mounting according to EN 60664-1 not permitted |  |  |  |  |  |  |  |  |  |  |
| Class of protection ${ }^{31}$ | Il according to EN 61140 |  |  |  |  |  |  |  |  |  |  |
| Device safety ${ }^{3 /}$ | According to EN 61010-1 |  |  |  |  |  |  |  |  |  |  |
| Noise immunity | According to EN 61000-6-2 and EN 61326-1 |  |  |  |  |  |  |  |  |  |  |
| Noise emission | According to EN 61000-6-3 and EN 61326-1 |  |  |  |  |  |  |  |  |  |  |
| Conformity | $\text { C } \cdot \text {. UK } \cdot \mathrm{FH}[$ |  |  |  |  |  |  |  |  |  |  |

1) Form $A$ : with ring nut, form $B$ : with mounted yoke
2) The permissible medium temperature depends on the valve on which the electric actuator is mounted. The limits in the valve documentation apply.
3) Only when the housing cover is attached and fastened
4) Cable glands M20×1.5 with metal nut (A/F 23/24) can be retrofitted (see Parts for retrofitting and accessories for accessories)

Table 2: Technical data • Version with three-step signal

| Type 3374 | -10 | -11 | -15 | -17 | -21 | -25 | -26 | -27 | -31 | -35 | -36 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Thrust in kN |  |  |  |  |  |  |  |  |  |  |  |
| Extends | 2.5 | 2.5 | 2.5 | 5 | 2 | 1.8 | 2 | 3 | 2 | 2.1 | 2 |
| Retracts | 2.5 | 2.5 | 2.5 | 5 | 0.5 | 2.1 | 0.5 | 0.5 | 0.5 | 1.8 | 0.5 |
| Nominal thrust of safety spring in kN | - | - | - | - | 2 | 1.8 | 2 | 3 | 0.5 | 1.8 | 0.5 |
| Manual override | With hex wrench |  |  |  | With hex wrench only possible when supply voltage is connected Adjustment not possible after fail-safe action has been triggered |  |  |  |  |  |  |
| Stroking speed in mm/s |  |  |  |  |  |  |  |  |  |  |  |
| Standard | 0.125 |  |  | 0.1 | 0.125 | 0.1 | 0.125 | 0.1 | 0.125 | 0.1 | 0.125 |
| Fast | 0.25 |  |  | - | 0.25 | - | 0.25 | - | 0.25 | - | 0.25 |
| In the event of fail-safe action | - |  |  |  | 1.25 |  |  |  |  |  |  |
| Transit time in s for rated travel |  |  |  |  |  |  |  |  |  |  |  |
| Standard | 240 | 120 | 240 | 300 | 120 | 300 | 120 | 300 | 120 | 300 | 120 |
| Fast | 120 | 60 | 120 | - | 60 | - | 60 | - | 60 | - | 60 |
| In the event of fail-safe action | - |  |  |  | 12 | 24 | 12 | 24 | 12 | 24 | 12 |
| Electrical connection |  |  |  |  |  |  |  |  |  |  |  |
| Supply voltage | $\begin{aligned} & 230 V_{1}+10 /-15 \% \\ & 24 V_{1}+10 /-15 \% \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |
| Power line frequency | 50 Hz |  |  |  |  |  |  |  |  |  |  |
| Power consumption in VA |  |  |  |  |  |  |  |  |  |  |  |
| Standard | 7.5 |  |  | 13 | 10.5 | 16 | 10.5 | 16 | 10.5 | 16 | 10.5 |
| Fast | 13 |  |  | - | 16 | - | 16 | - | 16 | - | 16 |
| Weight in kg (approx.) | 3.2 | 3.2 | 3.3 | 3.3 | 3.9 | 5.8 | 4.0 | 6.2 | 3.5 | 5.8 | 3.6 |
| Additional equipment |  |  |  |  |  |  |  |  |  |  |  |
| Limit contacts | Two adjustable limit contacts with mechanical changeover switches; max. 240 V AC, max. 1 A, without contact protection ${ }^{11}$ |  |  |  |  |  |  |  |  |  |  |
| Resistance transmitters | Two potentiometers, 0 to $1000 \Omega \pm 15 \%$, max. 200 mW , usable range approx. 0 to $900 \Omega$ |  |  |  |  |  |  |  |  |  |  |

1) Contact protection with suitable spark suppression must be fitted for the switching contact. Observe the manufacturer's specifications concerning the connected load to select the appropriate spark suppression. A fuse, which is suitable for the application's circuit, must be used for the shortcircuit and overload protection.

Table 3: Technical data • Version with positioner

| Type 3374 |  |  | -10 | -11 | -15 | -17 | -21 | -25 | -26 | -27 | -31 | -35 | -36 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Thrust in kN |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Extends |  | 2.5 | 2.5 | 2.5 | 5 | 2 | 1.8 | 2 | 3 | 2 | 2.1 | 2 |
| $\begin{aligned} & 0 \\ & \begin{array}{c} 0 \\ \hline i v \end{array} \end{aligned}$ | Retracts |  | 2.5 | 2.5 | 2.5 | 5 | 0.5 | 2.1 | 0.5 | 0.5 | 0.5 | 1.8 | 0.5 |
|  | Extends |  | 1.25 | 1.25 | 1.25 | - | - | - | - | - | - | - | - |
|  | Retracts |  | 1.25 | 1.25 | 1.25 | - | - | - | - | - | - | - | - |
| Nominal thrust of safety spring (for rated travel) in kN |  |  | - | - | - | - | 2 | 1.8 | 2 | 3 | 0.5 | 1.8 | 0.5 |
| Manual override |  |  | 4 mm hex wrench or electric ${ }^{1 /}$ |  |  |  | Electric |  |  |  |  |  |  |
| Stroking speed in mm/s |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Standard motor/normal speed |  |  | 0.25 | 0.25 | 0.25 | 0.125 | 0.25 | 0.125 | 0.25 | 0.125 | 0.25 | 0.125 | 0.25 |
| Standard motor/fast speed |  |  | 0.5 | 0.5 | 0.5 | 0.25 | 0.5 | 0.25 | 0.5 | 0.25 | 0.5 | 0.25 | 0.5 |
| Faster motor/normal speed |  |  | 0.5 | 0.5 | 0.5 | - | - | - | - | - | - | - | - |
| Faster motor/fast speed |  |  | 1 | 1 | 1 | - | - | - | - | - | - | - | - |
| In the event of fail-safe action |  |  | - | - | - | - | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 |
| Transit time in s for rated travel |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Standard motor/normal speed |  |  | 120 | 60 | 120 | 240 | 60 | 240 | 60 | 240 | 60 | 240 | 60 |
| Standard motor/fast speed |  |  | 60 | 30 | 60 | 120 | 30 | 120 | 30 | 120 | 30 | 120 | 30 |
| Faster motor/normal speed |  |  | 60 | 30 | 60 | - | - | - | - | - | - | - | - |
| Faster motor/fast speed |  |  | 30 | 15 | 30 | - | - | - | - | - | - | - | - |
| In the event of fail-safe action |  |  | - | - | - | - | 12 | 24 | 12 | 24 | 12 | 24 | 12 |
| Electrical connection |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Supply voltage; power line frequency |  |  | $24 \mathrm{~V}( \pm 15 \%), 50$ to 60 Hz (tolerance: 47 to 63 Hz ) and $24 \mathrm{~V} \mathrm{DC}( \pm 15 \%)$ 100 to 240 V (tolerance: 85 to 264 V ), 50 to 60 Hz (tolerance: 47 to 63 Hz ) |  |  |  |  |  |  |  |  |  |  |
| Power consumption |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 V AC in VA |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Standard |  | 12.5 |  | 19 | 18 | 25 | 18 | 25 | 18 | 25 | 18 |
|  |  | Fast |  | 16.5 |  | - | 23 | - | 23 | - | 23 | - | 23 |
| 24 V DC in W |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Standard |  | 7.5 |  | 13 | 11.5 | 17 | 11.5 | 17 | 11.5 | 17 | 11.5 |
|  |  | Fast |  | 11 |  | - | 15 | 17 | 15 | 17 | 15 | 17 | 15 |
|  | 100 to 2 | V AC in VA |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Standard | 13.8 to 20 |  |  | 22 | 19.8 | 28 | 19.8 | 28 | 19.8 | 28 | 19.8 |
|  |  | Fast |  |  |  | - | to 26 | 28 | to 26 | 28 | to 26 | 28 | to 26 |
| Duty type |  |  | S1-100\% according to EN 60034-1 |  |  |  |  |  |  |  |  |  |  |
| Additional equipment |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Limit contacts |  | Mechanical | Two adjustable limit contacts with mechanical changeover switches; Max. 240 V AC, max. 1 A, without contact protection ${ }^{2)}$ |  |  |  |  |  |  |  |  |  |  |
|  |  | Electronic | Two adjustable limit contacts with relay and changeover switches; Max. 240 V AC, max. 1 A, without contact protection ${ }^{2)}$ |  |  |  |  |  |  |  |  |  |  |
| RS-485 module |  |  | Module for Modbus RTU communication |  |  |  |  |  |  |  |  |  |  |


| Type 3374 | $\mathbf{- 1 0}$ | $\mathbf{- 1 1}$ | $\mathbf{- 1 5}$ | $\mathbf{- 1 7}$ | $\mathbf{- 2 1}$ | $\mathbf{- 2 5}$ | $\mathbf{- 2 6}$ | $\mathbf{- 2 7}$ | $\mathbf{- 3 1}$ | $\mathbf{- 3 5}$ | $\mathbf{- 3 6}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Weight in kg (approx.) | 3.5 | 3.5 | 3.6 | 3.6 | 4.2 | 5.7 | 4.3 | 6.1 | 3.8 | 5.7 | 3.9 |

1) Special version with handwheel on request
2) Contact protection with suitable spark suppression must be fitted for the switching contact. Observe the manufacturer's specifications concerning the connected load to select the appropriate spark suppression. A fuse, which is suitable for the application's circuit, must be used for the shortcircuit and overload protection.

## Table 4: Technical data • Positioner

| Type 3374 |  |
| :---: | :---: |
| Current input | 0/4 to 20 mA , adjustable, $\mathrm{R}_{\mathrm{i}}=50 \Omega$ |
| $\pm \quad$ Voltage input | $0 / 2$ to 10 V , adjustable, $\mathrm{R}_{\mathrm{i}}=20 \mathrm{k} \Omega$ |
| $\stackrel{\text { Pt1000 input }{ }^{11} \text { I }}{ }$ | Measuring range: -50 to $+150{ }^{\circ} \mathrm{C}, 300 \mu \mathrm{~A}$ |
| Binary input ${ }^{2 /}$ | Activation by jumpering the terminals, not galvanically isolated |
| Current output | $0 / 4$ to 20 mA , adjustable; error indication 24 mA |
| Resolution | 1000 steps or 0.02 mA |
| $\cdots$ Load | Max. $200 \Omega$ |
| $\frac{2}{3}$ Voltage output | $0 / 2$ to 10 V , adjustable; error indication 12 V |
| $\bigcirc$ | 1000 steps or 0.01 V |
| Load | Min. $5 \mathrm{k} \Omega$ |
| Binary output | Floating, max. $240 \mathrm{~V} \mathrm{AC}, \mathrm{max}$.1 A, without contact protection ${ }^{3)}$ |
| Positioner | The travel follows the input signal |
| $\simeq \quad$ PID controller | Fixed set point control |
| . O 은 Two-step mode | Two-step mode, floating binary input for actuation |
| .-U $\quad$ Three-step mode | Three-step mode, floating binary input for actuation |
| $\stackrel{\circ}{2}$ Temperature closed-loop <br> control upon input signal <br> failure | The integrated PID controller uses a fixed set point for closed-loop control after the input signal fails. |
| Display | Icons for functions, codes and text field; with backlight |
| Rotary pushbutton | Operating control for on-site operation to select and confirm codes and values |
| Interface | RS-232, for point-to-point connection to communication participants or for memory pen; permanently installed; connection: RJ-12 jack |

1) For PID Controller (PID) and Temperature closed-loop control upon input signal failure (POSF) applications only
2) For two-step mode (2STP) and three-step mode (3STP) applications
3) Contact protection with suitable spark suppression must be fitted for the switching contact. Observe the manufacturer's specifications concerning the connected load to select the appropriate spark suppression. A fuse, which is suitable for the application's circuit, must be used for the shortcircuit and overload protection.

${ }^{1)}$ When the actuator stem is fully extended
Fig. 25: Dimensions in mm • Type 3374-10, -11, -21 and -31, version with integrated yoke (form B)

Legend for Fig. 25:

| Type 3374 | Dimension $\mathbf{h}$ | Dimension $\mathbf{h}_{\mathbf{x}}$ |
| :---: | :---: | :---: |
| -10 | 30 mm |  |
| -11 | 15 mm |  |
| -21 | 15 mm |  |
| -31 | 15 mm |  |


${ }^{11}$ When the actuator stem is fully extended
Fig. 26: Dimensions in mm • Type 3374-15,-17,-26 and -36, version with ring nut (form A)
Legend for Fig. 26:

| Type 3374 | Dimension $\mathbf{h}$ | ${\text { Dimension } \mathbf{h}_{\mathbf{1}}}^{\text {Dimension } \mathbf{h}_{\mathbf{x}}}$ |  |
| :---: | :---: | :---: | :---: |
| -15 | 30 mm | 90 mm | $\geq 100 \mathrm{~mm}$ |
| -17 |  | 15 mm |  |
| -26 |  |  |  |
| -36 |  |  |  |



Fig. 27: Dimensions in mm • Type 3374-25 and -27, form A version


Fig. 28: Dimensions in mm • Type 3374-35, form A version


Fig. 29: Dimensions in mm • Handwheel as special version

## Parts for retrofitting and accessories

Table 5: Parts for retrofitting and accessories

| For all versions |  |
| :---: | :---: |
| Mechanical limit contacts | Order no. 1402-0898 |
| Set with three cable glands M20x1.5 with metal nut (A/F 23/24) | Order no. 1400-8828 |
| Mounting kit V2001 | Order no. 1400-9515 |
| Spacer to mount the actuator on Type 3323 Valve (DN 65 to 80) | Order no. 0340-3031 |
| Yoke to mount the actuator on Type 3260 Valve (DN 65 to 80) | Order no. 1890-8696 |
| Yoke to mount the actuator on Type 3260 Valve (DN 100 to 150) | Order no. 1400-8822 |
| For version with three-step signal |  |
| Basic unit for limit contacts and/or resistance transmitters | Order no. 1400-8829 |
| Resistance transmitters | See Table 6. |
| Gear wheel for resistance transmitter PCB | Order no. 1992-5885 |
| For version with positioner |  |
| Electronic limit contacts | Order no. 1402-0591 |
| RS-485 module | Order no. 1402-1522 |
| Hardware package consisting of: <br> - Memory pen-64 <br> - Connecting cable RJ-12/D-sub, 9 pin <br> - Modular adapter | Order no. 1400-9998 |
| Memory pen-64 | Order no.: 1400-9753 |
| Connecting cable |  |
| Modular adapter | Order no.: 1400-7698 |
| USB to RS-232 adapter | Order no.: 8812-2001 $\stackrel{\text { RS232 }}{\substack{0 \\ \because O O \\ \square}} \xrightarrow{\text { USB }}$ |
| TROVIS-VIEW software (free of charge) | -www.samsongroup.com > DOWNLOADS > Software \& Drivers > TROVIS-VIEW |

Table 6: Resistance transmitters. Selecting the actuator board ${ }^{2}$

| Supply voltage |  | Type 3374 | -10 | -11 | -15 | -17 | -21 | -26 | -31 | -36 | -25 | -27 | -35 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $230 \mathrm{~V}, 50 \mathrm{~Hz}$ | Standard | Order no.: | 1180-9601 |  |  |  | 1180-9607 |  |  |  |  |  |  |
|  | Faster motor | Order no.: | 1180-9604 |  |  | - | 1180-9610 |  |  |  | - |  |  |
| $24 \mathrm{~V}, 50 \mathrm{~Hz}$ | Standard | Order no.: | 1180-9603 |  |  |  | 1180-9609 |  |  |  |  |  |  |
|  | Faster motor | Order no.: | 1180-9606 |  |  | - | 1180-9612 |  |  |  | - |  |  |

[^2]
## Ordering text

## Type 3374 Electric Actuator

- Version with three-step signal

Rated
travel
$15 / 30 \mathrm{~mm}$
Fail-safe action
Stem extends/Stem retracts/Without
Gear version
Normal/Fast
Supply voltage
$230 \mathrm{~V}, 50 \mathrm{~Hz}$
$24 \mathrm{~V}, 50 \mathrm{~Hz}$
Additional electrical equipment
Two mechanical limit contacts
With/without

- Version with positioner

Rated travel
$15 / 30 \mathrm{~mm}$
Fail-safe action
Stem extends/Stem retracts/Without
Gear version Normal/Fast
Supply voltage
85 to $264 \mathrm{~V}, 50 / 60 \mathrm{~Hz}$ $24 \mathrm{~V}, 50 / 60 \mathrm{~Hz}$ and $D C$
Additional electrical equipment
Two mechanical limit contacts Mechanical/electronic/without

## Associated Mounting and Operating Instructions

- Type 3374
-EB 8331-3
(version with three-step signal):
- Type 3374
-EB 8331-4
(version with positioner)


[^0]:    Actuator
    2.2 Valve yoke

    3 Actuator stem
    Stem connector
    Plug stem
    Ring nut
    0 Travel indicator scale

[^1]:    ${ }^{1)}$ Function configurable in cl 1 and cl 2

[^2]:    2 Two gear wheels (order no. 1992-5885) are additionally required for a retrofit; the basic unit (1400-8829) is additionally required for the version without limit contacts and for a retrofit.

