

### Characteristics of actuators of type STA

- The cams can be continuously adjusted by hand, fine tuning with a screw-driver. This makes on-site adjustment easier.
- Short start/stop times allow precise switching times and ensure good dynamic performance.
- Precise movements are made possible by speeds which are not affected by changes in voltage or load.
- As the actuator displays high holding torque when de-energized, no additional brake elements are required.
- Through its compact construction, the actuator takes up little room.
- Actuators can be installed in any plane.
- Connection to the mains is made via screw terminals for the B1, B2 and B3 and by plug for the B0. This does away with the need for any adaptors.
- The optional version with a potentiometer allows a feedback signal on the angle of rotation to be evaluated.
- The actuators are lubricated for life, and no on-site maintenance is required.

### General data for actuator type STA

	Values
Power supply	230 V AC / 50Hz
Switching power of auxiliary switches	10(2) A 250 V (to CEE 24 / VDE 0630)
Protection grade	DIN 40050, IP 40 STA, STM ... Q3 ... are available with IP 54
Permitted ambient temperature	Operation: 0 ... 60 °C Transport and storage: -20 ... +60 °C

### Accessories: potentiometer installation set

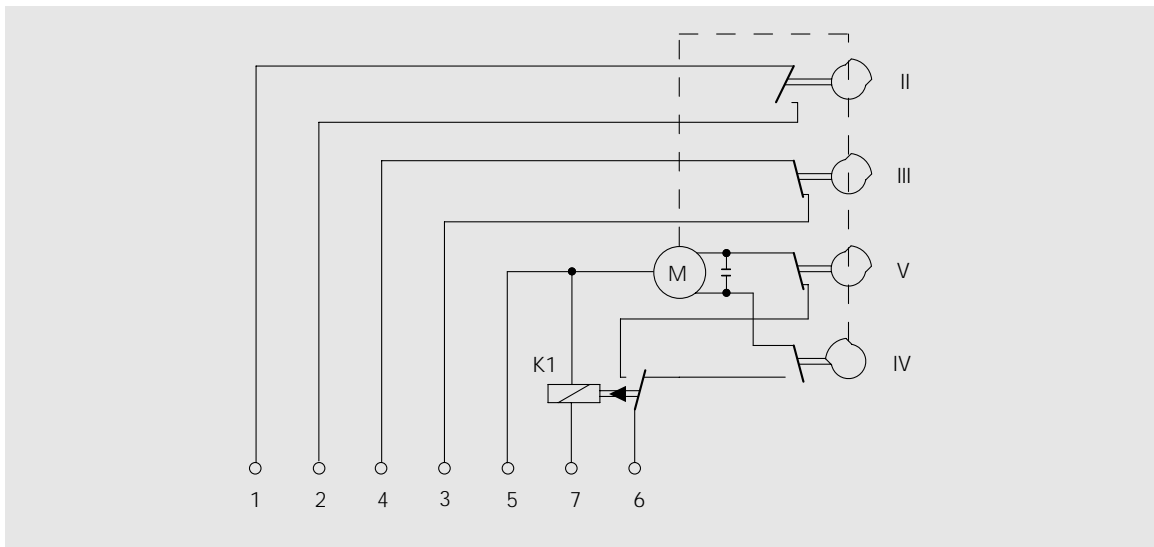
The angle of rotation of the actuators can be recorded by a mechanically coupled potentiometer and passed to an external control unit for further processing. All actuators whose type code ends in a "P" can be retro-fitted with a potentiometer.

Potentiometer installation sets with resistor values of 100Ω and 1000Ω through 90° are available.

# Actuators

## Technical Data

### STA 2N36



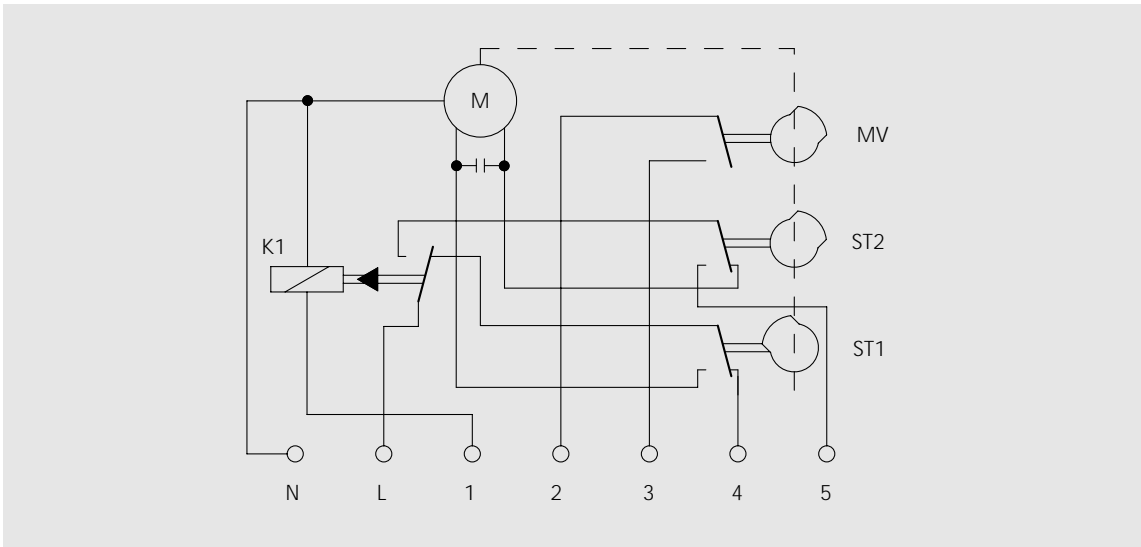
#### STA with 2N36 wiring

In heating technology, the STA actuator with 2N36 wiring can be used for the following components:

- For **small** and **medium** power burners
- For air valves **with no** air seal.

#### Technical Data

Actuator type	Sense of rotation	Running time for 90°	Rated torque	Static holding torque
STA3.5 B0.37/6 - 2N36	R / L	3.5 s	0.8 Nm	0.3 Nm
STA5 B0.36/8 - 2N36	R / L	5 s	0.6 Nm	0.2 Nm
STA13 B0.36/8 - 2N36	R / L	13 s	1.0 Nm	0.6 Nm



### STA with 2N13 wiring

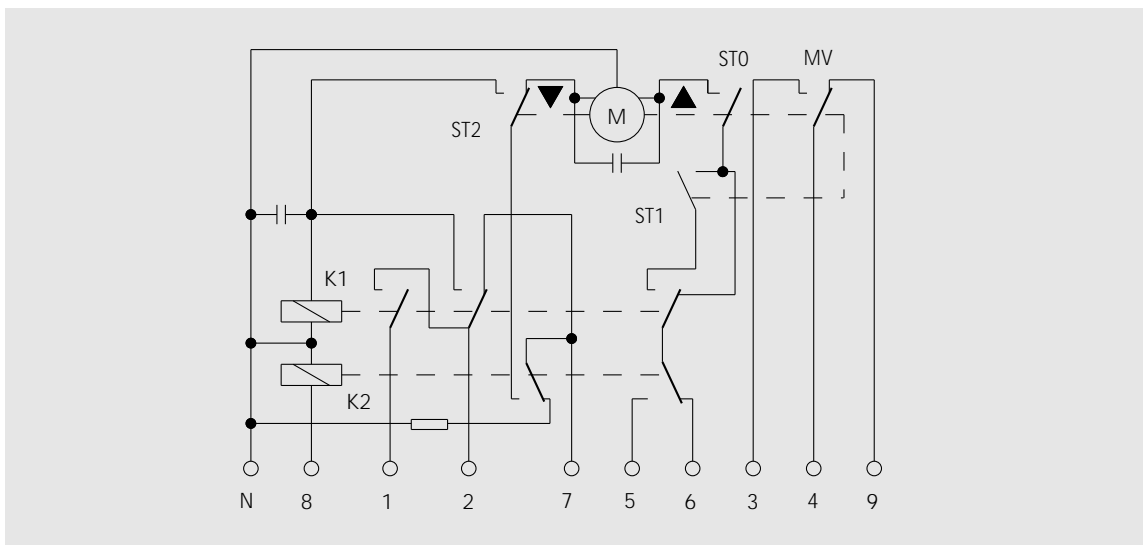
In heating technology, the STA actuator with 2N13 wiring can be used for the following components:

- For **small** and **medium** power burners
- For air valves **with no** air seal.

### Technical Data

Actuator type	Sense of rotation	Running time for 90°	Rated torque	Static holding torque
STA3 B2.41/6 - 2N13	R / L	3 s	1.6 Nm	0.4 Nm
STA6 B2.41/6 - 2N13	R / L	6 s	3.0 Nm	0.8 Nm
STA12 B1.37/6 - 2N13	R / L	12 s	2.6 Nm	1.1 Nm
STA30 B1.37/6 - 2N13	R / L	30 s	3.0 Nm	2.0 Nm

### STA 3N21



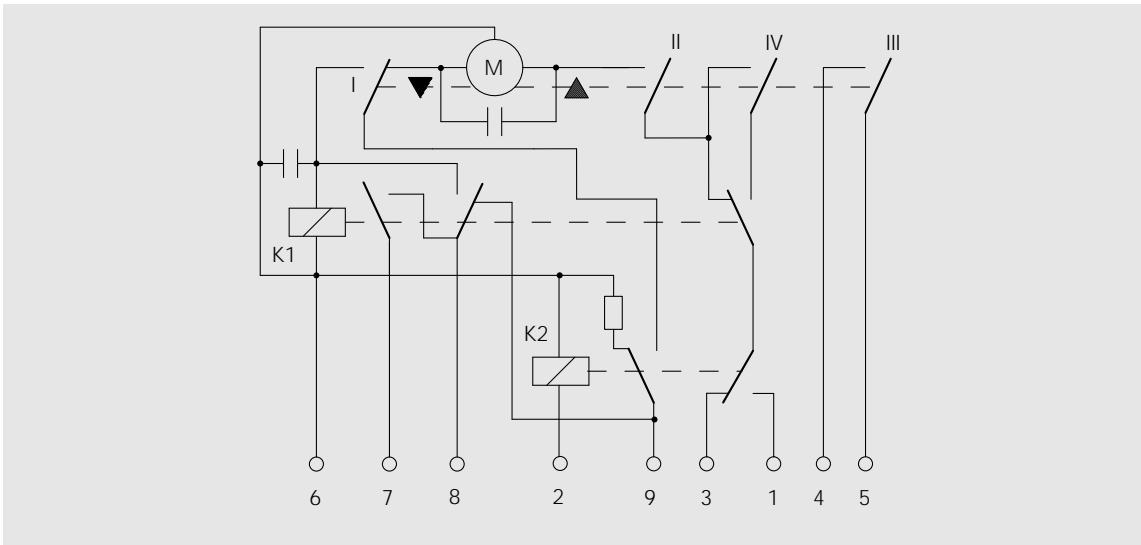
#### STA with 3N21 wiring

In heating technology, the STA actuator with 3N21 wiring can be used for the following components:

- For two-stage **gasburners** of **medium** and **high** power
- For controlling air valves
- For burner equipment with or without air valve monitoring.

#### Technical Data

Actuator type	Sense of rotation	Running time for 90°	Rated torque	Static holding torque
STA3 B3.42/ 6-3N21	R / L	3 s	1.6 Nm	0.4 Nm
STA6 B2.37/ 6-3N21	R / L	6 s	1.4 Nm	0.6 Nm
STA6 B3.42/6-3N21	R / L	6 s	2.6 Nm	1.0 Nm
STA12 B2.37/6-3N21	R / L	12 s	3.0 Nm	1.1 Nm
STA30 B2.37/6-3N21	R / L	30 s	3.0 Nm	2.0 Nm



### STA with 3N23 wiring

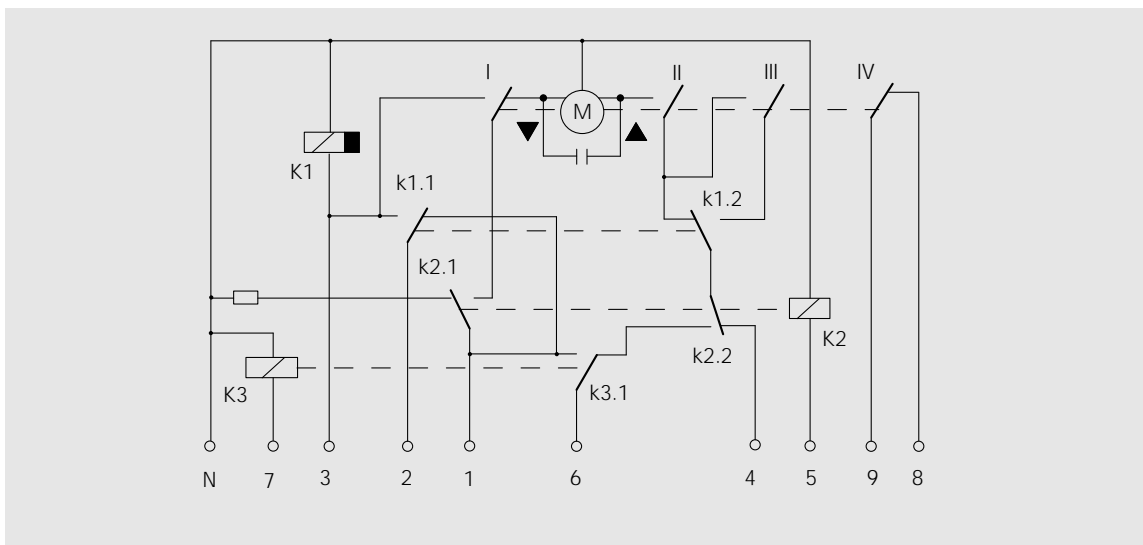
In heating technology, the STA actuator with 3N23 wiring can be used for the following components:

- For two-stage **gasburners** of **small** and **medium** power
- For controlling air valves.

### Technical Data

Actuator type	Sense of rotation	Running time for 90°	Rated torque	Static holding torque
STA3.5 B0.37/6 - 3N23	R / L	3.5 s	0.8 Nm	0.3 Nm
STA5 B0.36/8 - 3N23	R / L	5 s	0.6 Nm	0.2 Nm
STA13 B0.36/8 - 3N23	R / L	13 s	1.0 Nm	0.6 Nm

### STA 3N27



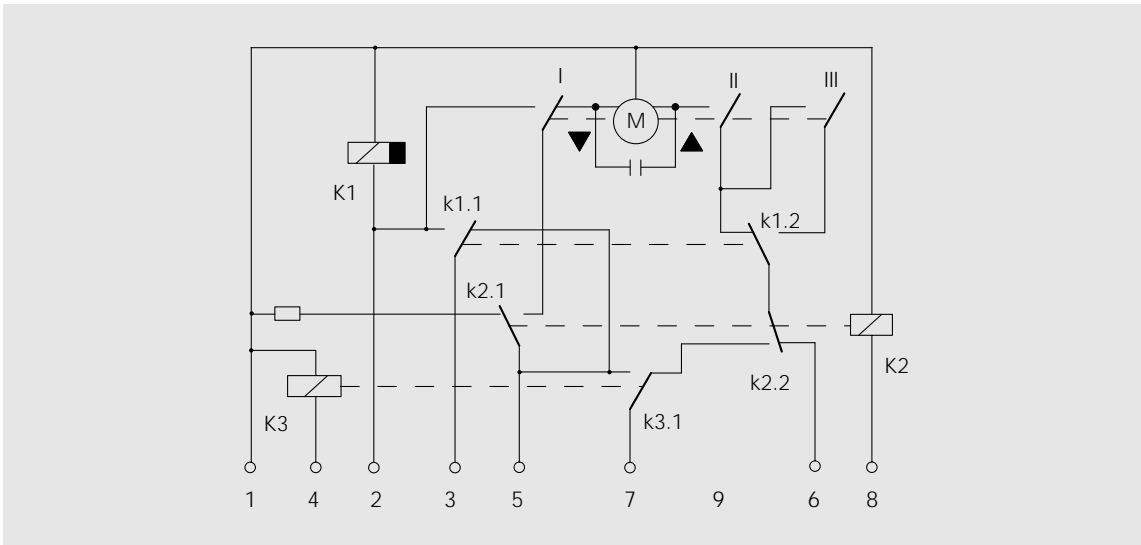
#### STA with 3N27 wiring

In heating technology, the STA actuator with 3N27 wiring can be used for the following components:

- For two-stage **gasburners** of **medium** and **high** power
- For controlling air valves
- For burner equipment with or without air valve monitoring.

#### Technical Data

Actuator type	Sense of rotation	Running time for 90°	Rated torque	Static holding torque
STA3 B3.42/6 - 3N27	R / L	3 s	1.6 Nm	0.4 Nm
STA6 B2.37/6 - 3N27	R / L	6 s	1.4 Nm	0.6 Nm
STA6 B3.42/6 - 3N27	R / L	6 s	2.6 Nm	1.0 Nm
STA12 B2.37/6 - 3N27	R / L	12 s	3.0 Nm	1.1 Nm
STA30 B2.37/6 - 3N27	R / L	30 s	3.0 Nm	2.0 Nm



### STA with 3N28 wiring

In heating technology, the STA actuator with 3N28 wiring can be used for the following components:

- For two-stage **gasburners** of **medium and high** power
- For controlling air valves
- For burner equipment with or without air valve monitoring.

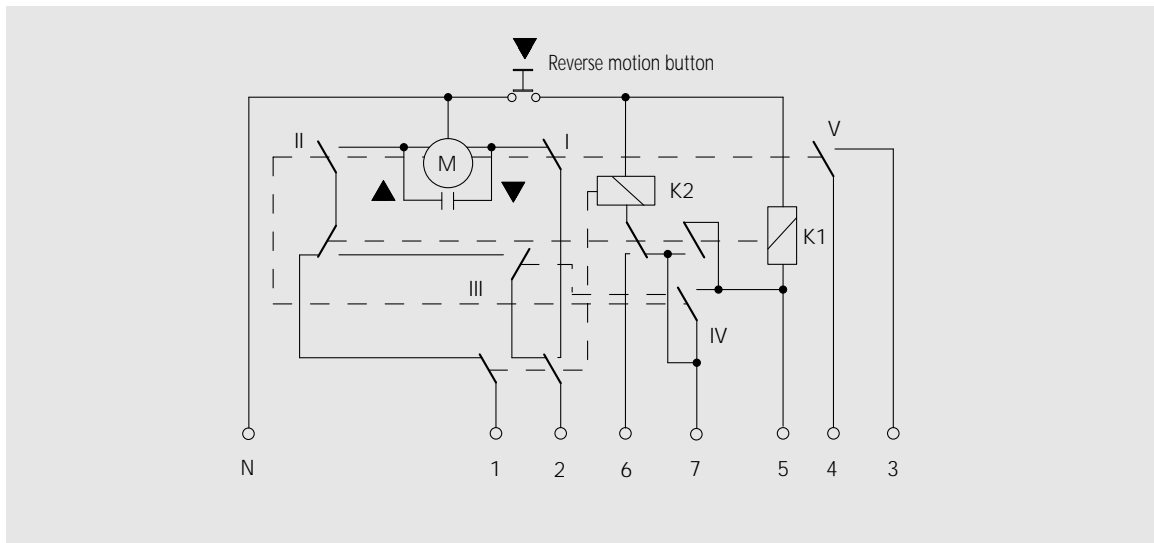
### Technical Data

Actuator type	Sense of rotation	Running time for 90°	Rated torque	Static holding torque
STA3 B3.42/6 - 3N28	R / L	3 s	1.6 Nm	0.4 Nm
STA6 B2.37/6 - 3N28	R / L	6 s	1.4 Nm	0.6 Nm
STA6 B3.42/6 - 3N28	R / L	6 s	2.6 Nm	1.0 Nm
STA12 B2.37/6 - 3N28	R / L	12 s	3.0 Nm	1.1 Nm
STA30 B2.37/6 - 3N28	R / L	30 s	3.0 Nm	2.0 Nm

# Actuators

Technical Data

## STA 4N18



### STA with 4N18 wiring

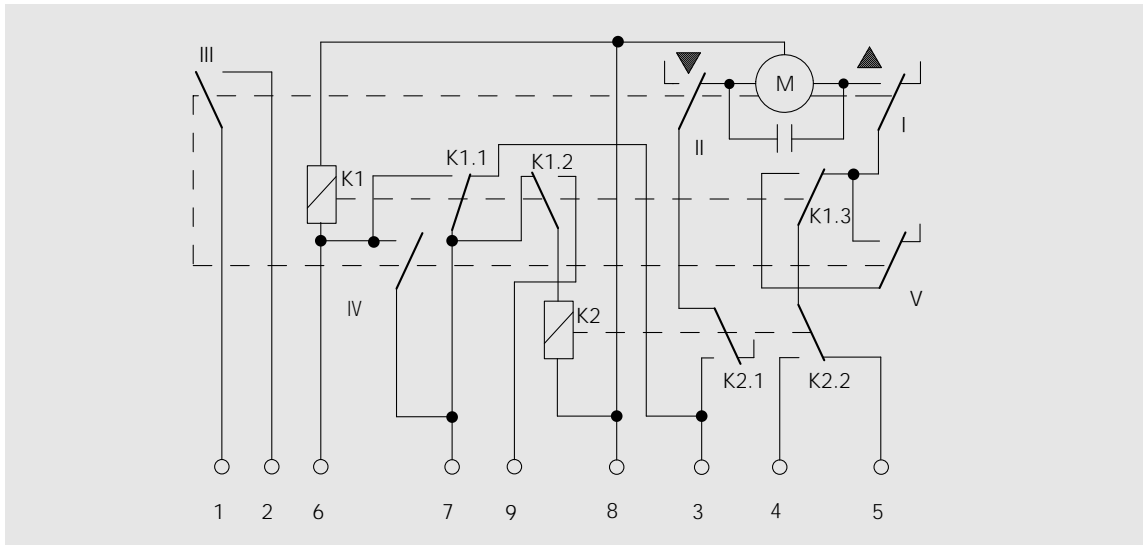
In heating technology, the STA actuator STA with 4N18 wiring can be used for the following components:

- For **oil** and **gas**burners of **small** and **medium** power
- For controlling air valves
- Two-stage or modulating operating mode.

### Technical Data

Actuator type	Sense of rotation	Running time for 90°	Rated torque	Static holding torque
STA3 B3.42/6 - 4N18	R / L	3 s	1.6 Nm	0.4 Nm
STA6 B2.37/6 - 4N18	R / L	6 s	1.4 Nm	0.6 Nm
STA6 B3.42/6 - 4N18	R / L	6 s	2.6 Nm	1.0 Nm
STA12 B2.37/6 - 4N18	R / L	12 s	3.0 Nm	1.1 Nm
STA30 B2.37/6 - 4N18	R / L	30 s	3.0 Nm	2.0 Nm





### STA with 4N22 wiring

In heating technology, the STA actuator with 4N22 wiring can be used for the following components:

- For **oil** and **gas** burners of **small** and **medium** power
- For controlling air valves
- Two-stage or modulating operating mode.

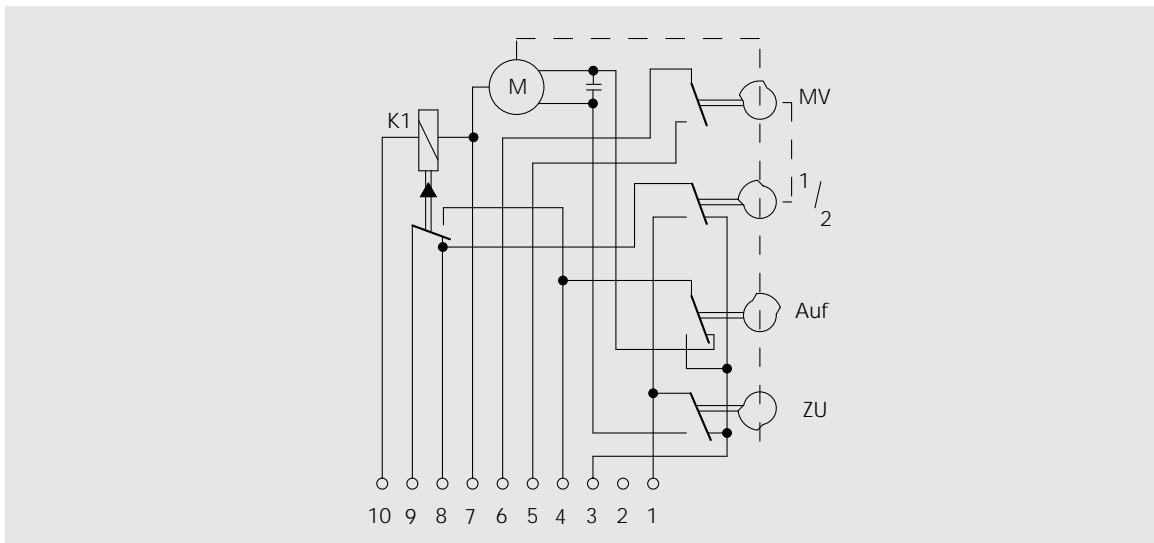
### Technical Data

Actuator type	Sense of rotation	Running time for 90°	Rated torque	Static holding torque
STA3.5 B0.37/6 - 4N22	R / L	3.5 s	0.8 Nm	0.3 Nm
STA5 B0.36/8 - 4N22	R / L	5 s	0.6 Nm	0.2 Nm
STA13 B0.36/8 - 4N22	R / L	13 s	1.0 Nm	0.6 Nm

# Actuators

## Technical Data

### STA 3N12



#### STA with 3N12 wiring

In heating technology, the STA actuator STA with 4N18 wiring can be used for the following components:

- For **oil** and **gas** burners of **small** and **medium** power
- For controlling air valves
- Two-stage or modulating operating mode.

#### Technical Data

Actuator type	Sense of rotation	Running time for 90°	Rated torque	Static holding torque
STA3 B3.42/6 - 3N12	R / L	3 s	1.6 Nm	0.4 Nm
STA6 B2.37/6 - 3N12	R / L	6 s	1.4 Nm	0.6 Nm
STA6 B3.42/6 - 3N12	R / L	6 s	2.6 Nm	1.0 Nm
STA12 B2.37/6 - 3N12	R / L	12 s	3.0 Nm	1.1 Nm
STA30 B2.37/6 - 3N12	R / L	30 s	3.0 Nm	2.0 Nm