

Characteristics of actuators of type STM

- 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, B3 and Q3 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 STM

	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

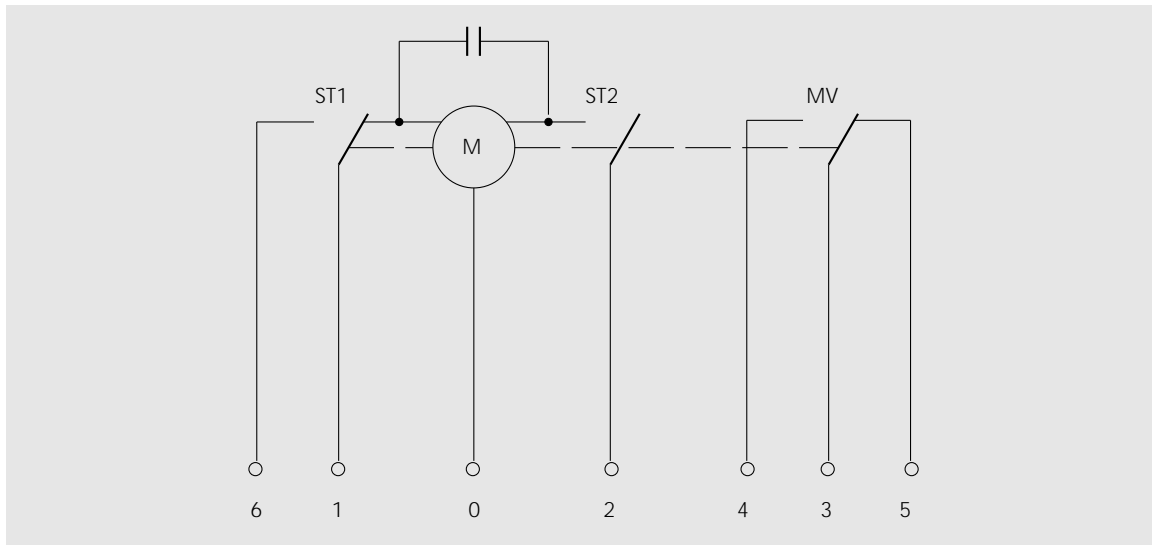
The angle of rotation of the actuators can be recorded by a mechanically coupled potentiometer and passed to an external control unit for further processing. All actuators whose type code ends in a "P" can be retro-fitted with a potentiometer.

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

Actuators

Technical Data

STM 31N



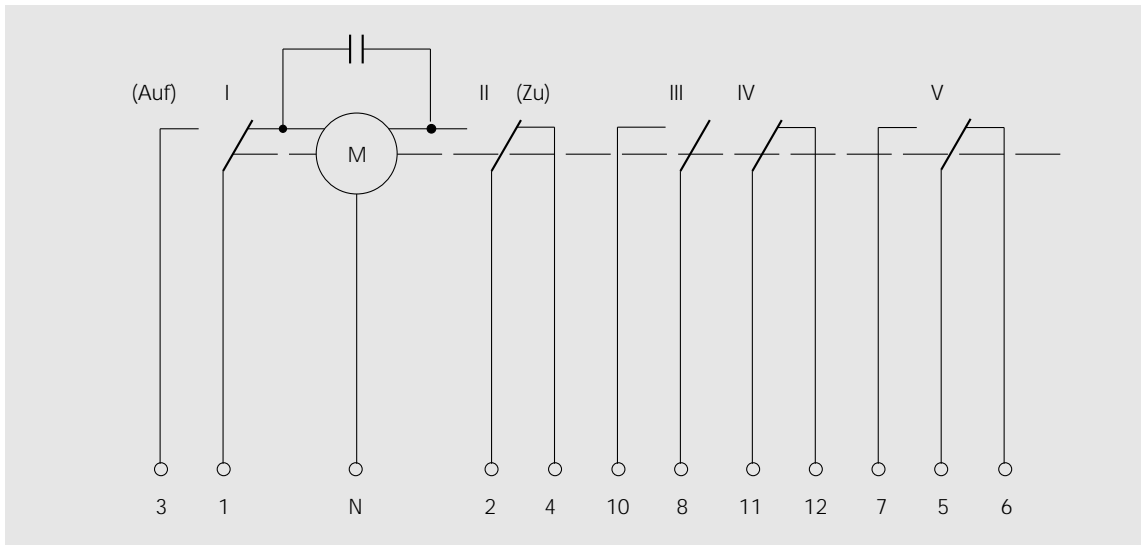
STM with 31N wiring

STM actuators are used in all industries, especially the following:

- Apparatus construction
- Electrical engineering for open and closed loop control tasks
- Weighing and dosing technology for movement tasks
- Heating, air conditioning and ventilation engineering.

Technical Data

Actuator type	Sense of rotation	Running time for 90°	Rated torque	Static holding torque
STM3 B2.41/6 - 31N	R / L	3 s	1.6 Nm	0.4 Nm
STM6 B2.41/6 - 31N	R / L	6 s	2.6 Nm	0.8 Nm
STM12 B1.37/6 - 31N	R / L	12 s	3 Nm	1.1 Nm
STM30 B1.37/6 - 31N	R / L	30 s	3 Nm	2 Nm



STM with 51N wiring

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Technical Data

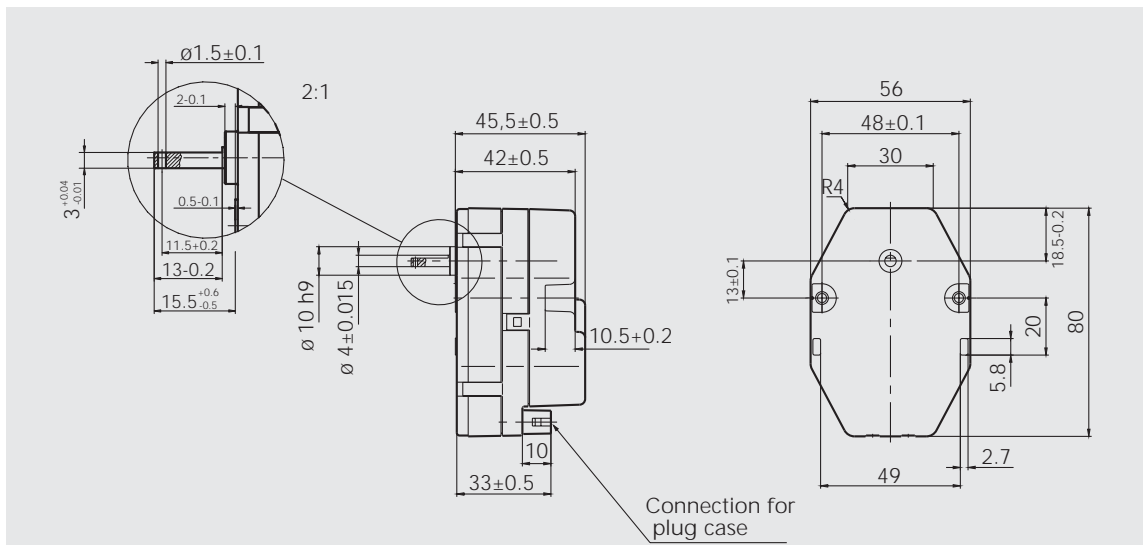
Actuator type	Sense of rotation	Running time for 90°	Rated torque	Static holding torque
STM4.5 Q3.51/6 - 51N ¹	R / L	4.5 s	3 Nm	1.5 Nm
STM9 Q3.51/12 - 51N ¹	R / L	9 s	4 Nm	1.5 Nm
STM12 B2.37/6 - 51N	R / L	12 s	3 Nm	1.1 Nm
STM15 Q3.51/6 - 51N ¹	R / L	15 s	9 Nm	6 Nm
STM30 B3.37/6 - 51N ¹	R / L	30 s	3 Nm	2 Nm
STM30 Q3.51/12 - 51N ¹	R / L	30 s	10 Nm	6.5 Nm

1 Potentiometer installation possible

Actuators

Technical Data

STM 6SF-L



STM 6SF-L

In the simple version of the actuators, the STM 6SF, an anti-blocking asynchronous motor is used as the drive. This actuator moves to a preset limit and the power remains on. When de-energized, the shaft is reset by means of a mechanical spring – a safety precaution in the event of a power failure.

The STM 6SF-L actuator is particularly suited to moving air valves in heating burners in the lower performance range.

Technical Data

	Values
Rated voltage	230 VAC -15% +10%
Rated frequency	50 Hz
Current consumption	24 mA
Apparent power	5.5 VA
Sense of rotation	anti-clockwise
Control time	6 s
Driving torque	26 Ncm
Reverse torque	1 Ncm
Weight	200 g
Ambient temperature	0 ... 60 °C
Operating mode S1	100% ED
Protection grade	IP 40, to DIN 40 050
Insulation class	E, to VDE 0530