

StG 2040/2080

DATA SHEET

Description

Medium-sized and large diesel engines as well as gas engines or turbines are the preferential application for this type of powerful actuators.

A multi-polar magnetised permanent magnet is mounted on the actuator shaft. Opposite of it a likewise multipolar armature is fixed. The design allows generation



of powerful torque in both directions of working equally. Very fast response times are the result of this direct acting and gearles function. Optionally a return spring can be mounted on the output shaft to ensure setting to a zero position in case of voltage loss or similar.

A contactless feedback system mounted on the actuator shaft offers a precise electrical signal of shaft position to any external control device. The use of special materials and long-duration lubricants assure maintenance-free operation and long service life. Altogether, this type of actuator provides high regulation power working in both directions at only low current consumption. It allows any fitting position and orientation. Several different electrical connecting variants are available.

Application range

- Medium-sized and large diesel engines
- Gas engines
- Gas and stean turbines

Certificates

Features

Strong regulation torque working in both directions equally

Quick response time

Low current consumption on change of load

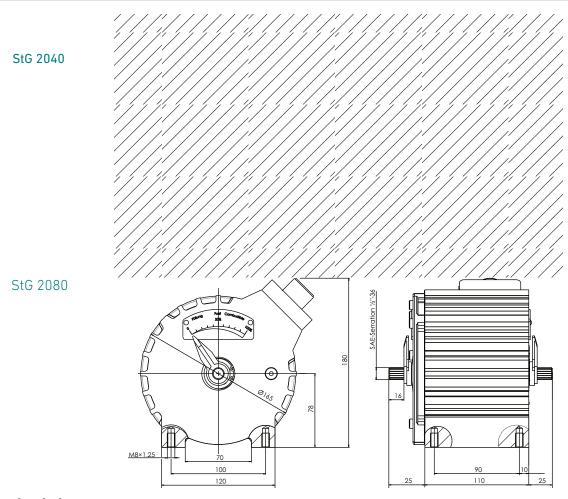
Extremely low retaining current

Contactless feedback

Any mounting position and orientation possible

Maintenance-free

Return spring optional



Technical data

	StG 2040		StG 2080		
Rotation angle	36°	68°	36°	68°	
Max. torque	7.4 Nm	5.6 Nm	11 Nm	8 Nm	
Steady state torque	3.7 Nm	3.4 Nm	5.5 Nm	4.2 Nm	
Return torque, 100 % position	~1.4 Nm	~1.4 Nm	~1.3 Nm	~1.6 Nm	
Torque of return spring, 0 % position	~1.2 Nm	~1.0 Nm	~1.0 Nm	~1.0 Nm	
No load response time	≤ 50 ms	≤ 70 ms	≤ 60 ms	≤ 85 ms	
Current consumption	max. 8 A				
Steady state current	max. 4 A				
Position feedback (0 100 %)	approx. 1.6 2.8 VDC				
Ambiente temperature	-25 90 °C (-40 °C on request)				
Permissible ambient humidity	< 95 % at 55 °C				
Vibration	± 1 mm at 1 20 Hz				
	max. 0.24 m/s at 2163 Hz				
	max. 9g at 64 2000 Hz				
Shock	30g, 11 ms, half sine				
Degree of protection	IP65, housing & plug				
	IP00, with terminal				
Weight	approx	approx. 6.6 kg		approx. 8.6 kg	