

StG 180

DATA SHEET

Description

Large diesel engines as well as gas engines or -turbines are the preferential application for this type of powerful actuators.

Two DC disc motors working on the same output shaft are their core. They already generate strong torque in both directions of rotation. Additionally their torque is multiplied by a reduction gearbox.

Due to the low moment of inertia of the motor discs nevertheless quick response times can be gained. In case of voltage loss a return spring ensures setting back to zero position. Optionally the actuator is available without return spring. A contactless feedback system is integrated onto the governors output shaft offering an electrical position signal to any external control unit.

A current limitation which is activated 20 seconds after the actuators might be blocked mechanically prevents them from damage by overheating. The use of special materials and long-time lubricants assures maintenance-free operation and long working life of the actuator.

All considered these actuator provides high actuating power even with only low current consumption and is quite indifferent to slow voltage changes of the supply.

Application range

- Large diesel engines
- Gas engines
- Gas and steam turbines



Features

Strong actuating torque up to 180 Nm working in both directions

Quick response time

Return spring

Low current consumption on change of load

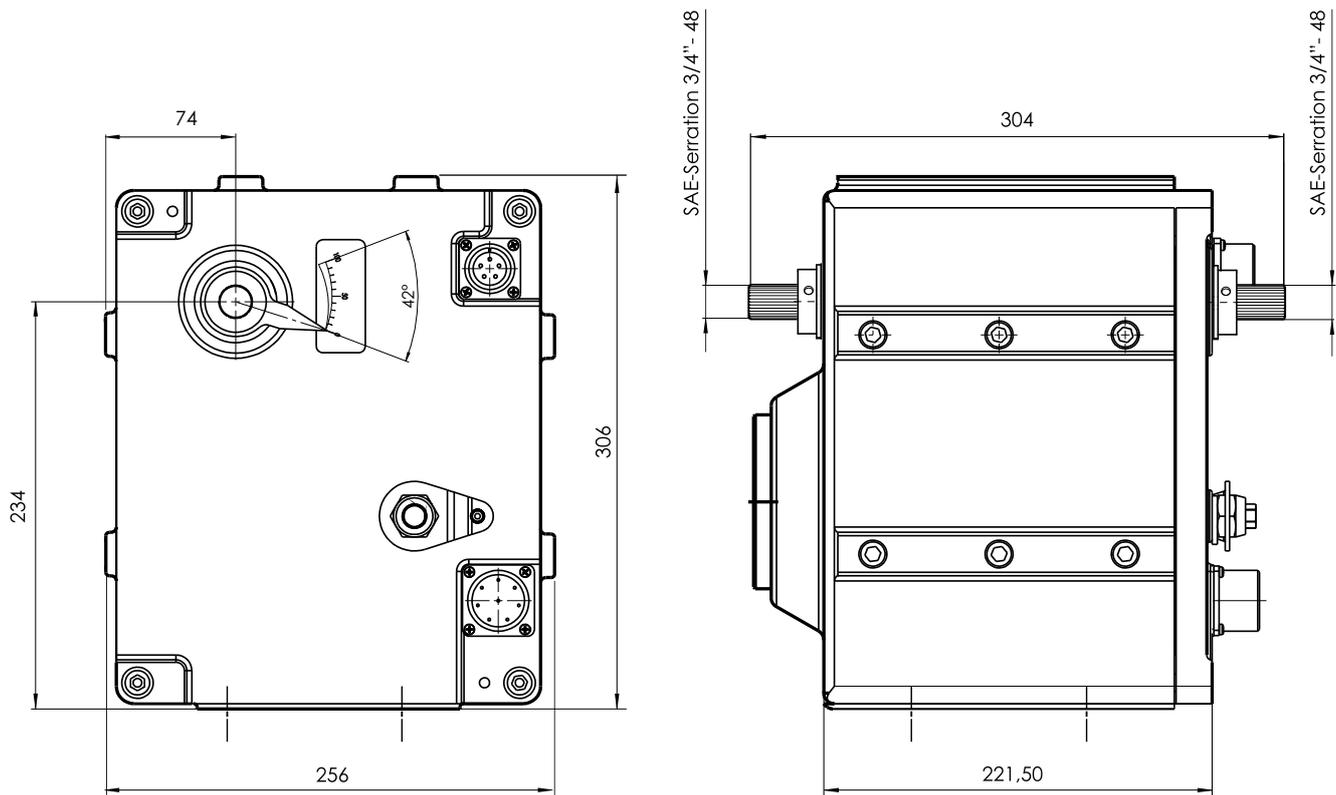
Extremely low retaining current

Indifference to slow voltage changes of the supply

Contactless feedback

Current limitation in case of blocking to prevent actuator overheating

Dimensions



Technical data

Rotation angle	max. 42°
Max. torque	approx. 180 Nm
Steady state torque	approx. 60 Nm
Return spring	0 - 100 %: 4.0 - 6.0 Nm (18 - 26 Nm optional)
No load response time	approx. 320 ms
Current consumption	max. 2 × 6.5 A
Steady state current	approx. 2 × 2.2 A
Position feedback 0 ... 100 %	approx. 1.6 ... 2.8 VDC
Ambient temperature	-25 ... 90 °C -40 ... 90 °C
Storage temperature	-55 ... 110 °C
Permissible ambient humidity	< 95 %
Protection grade	IP55
Weight	approx. 39 kg

Certificates

on request