

StG 3

DATA SHEET

Description

Small and medium-sized diesel engines as well as gas engines or turbines are the preferential application for this powerful actuator.

A multipolar magnetised permanent magnet is facing a multipolar armature radial. That kind of design allows generating powerful torque in both directions of rotation. Besides that it achieves the least possible axial bearing loads.

The armature is optimised for lowest heat build-up. Additionally the design enhances heat transfer and allows a wide working temperature range.

Result of the direct acting gearless function is a very fast response time. Optionally a return spring can be mounted on the output shaft to ensure setting to a zero position in case of voltage loss.

A high precision contactless feedback system supplies an electrical analogue signal of shaft position to any external control device.

Application of special materials and long-duration lubricants assure maintenance-free operation and long service life. Mounting of the actuator is possible in any fitting position. The robust and enduring design with IP6K9K degree of protection allows operation under roughest ambient conditions.



Features

For small and medium-sized engines

Quick response time

Contactless high-precision feedback

Robust and enduring construction with minimal axial bearing load

Wide working temperature range up to 150 °C

Completely maintenance-free

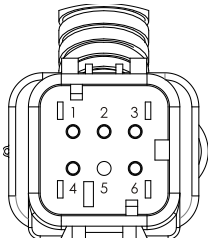
IP6K9K degree of protection

Application range

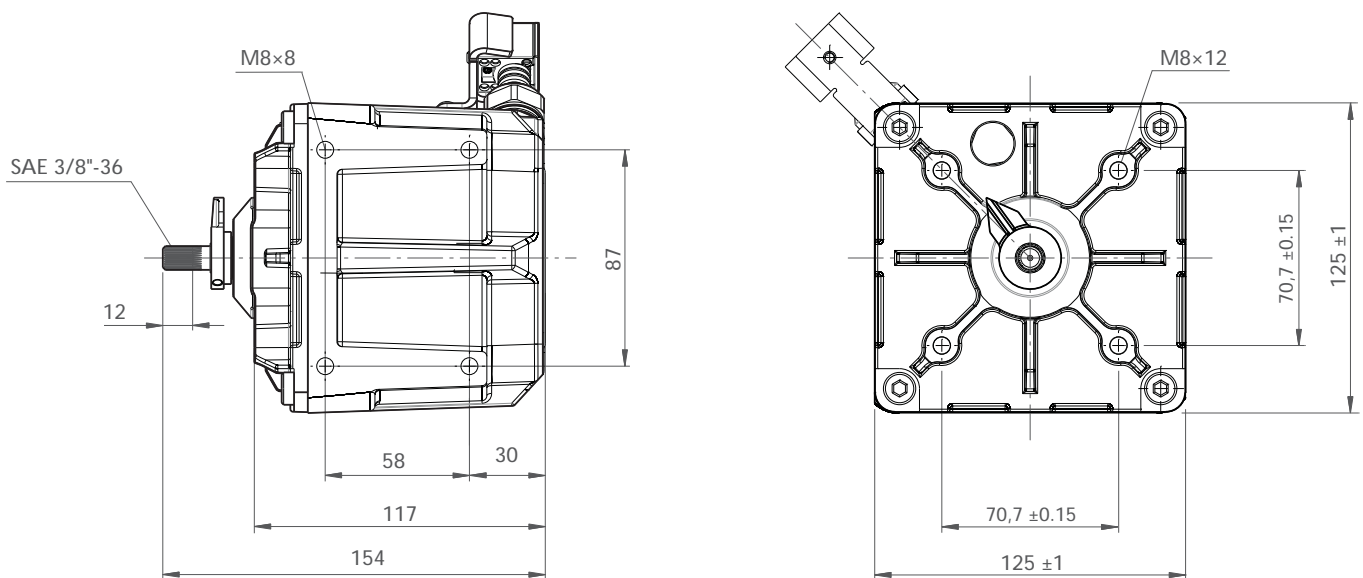
- Small and medium-sized diesel engines
- Gas engines
- Gas and steam turbines

Technical data

Actuating angle	72°
Maximum torque	3 Nm
Torque in steady state	1.5 Nm
No load response time (depending on controller)	< 50 ms
Motor operating voltage range	10 ... 32 V
Current consumption	max. 6 A
Steady state current	approx. 3.5 A
Power supply position sensor	4.5 ... 5.5 VDC
Position feedback (0 ... 100 %)	0.5 ... 4.5 V
Degree of protection	IP6K9K
Weight	approx. 5 kg

Ambient temperature	-40 ... 125 °C	
Permissible ambient humidity	< 95 % at 55 °C	
Permissible vibration level	± 1 mm at 1 ... 20 Hz, max. 0.24 m/s at 21 ... 63 Hz, max. 9 g at 64 ... 2000 Hz	
Shock	30 g, 11 ms, half sine	
Connector	AMPSEAL 16 (6 pin)	
	1	Power supply position sensor
	2	GND position sensor
	3	Position feedback signal
	4	Motor (-)
	5	(not connected)
	6	Motor (+)

Dimensions



Approvals

On request
CSA, ATEX, Shipping approvals

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