

» CASM-40 | Brushless DC motor BG 65S and adapters

CASM-40 linear units with brushless DC motors are perfectly suited to replace pneumatic cylinders in many applications.

It is a very simple system to set up. Connect the motor to a 40V DC power supply and program up to 14 motion profiles with your computer and the programming accessory kit.

After programming the motor, the motion profile can be activated by 2 – 4 binary signals (PLC outputs or switches) and the actuator will run to the defined position.

The brushless DC motor, BG 65Sx50 PI, comes with an internal encoder with 4 096 counts per turn for high positioning accuracy.

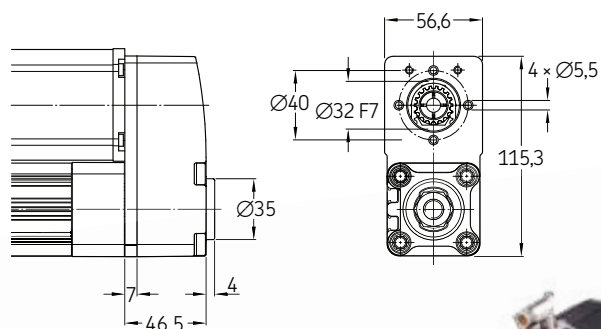
The internal brake is activated after each movement to secure the system in case of a power loss and to give the motor time to cool down when not in operation.

The brake also enables an increase in the power performance of a full motion cycle.

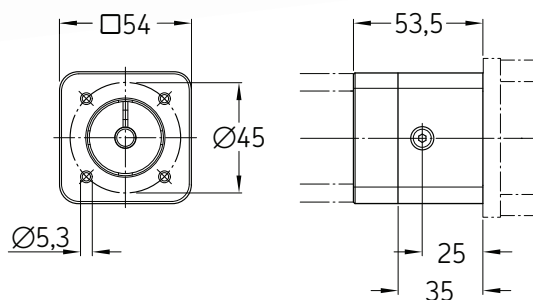
Combinations with other motors are possible.



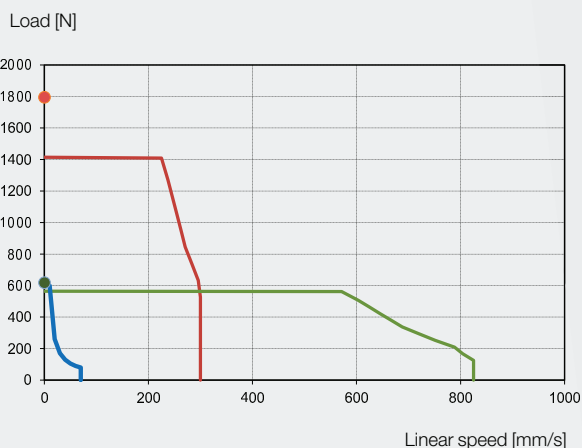
Parallel adapter kit



In-line adapter kit



Load/ linear speed diagram

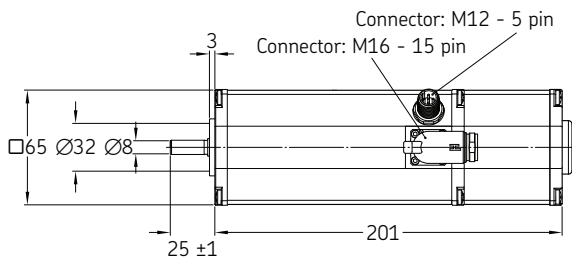


- CASM-40-BS - Peak Torque
- CASM-40-BS Brake
- CASM-40-BN - Peak Torque
- CASM-40-BN Brake
- CASM-40-L-S

Load = force acting on the actuator
(gravity force + acceleration force + constant force)

» Motor data

BLDC motor BG 65Sx50 | with PI interface and brake

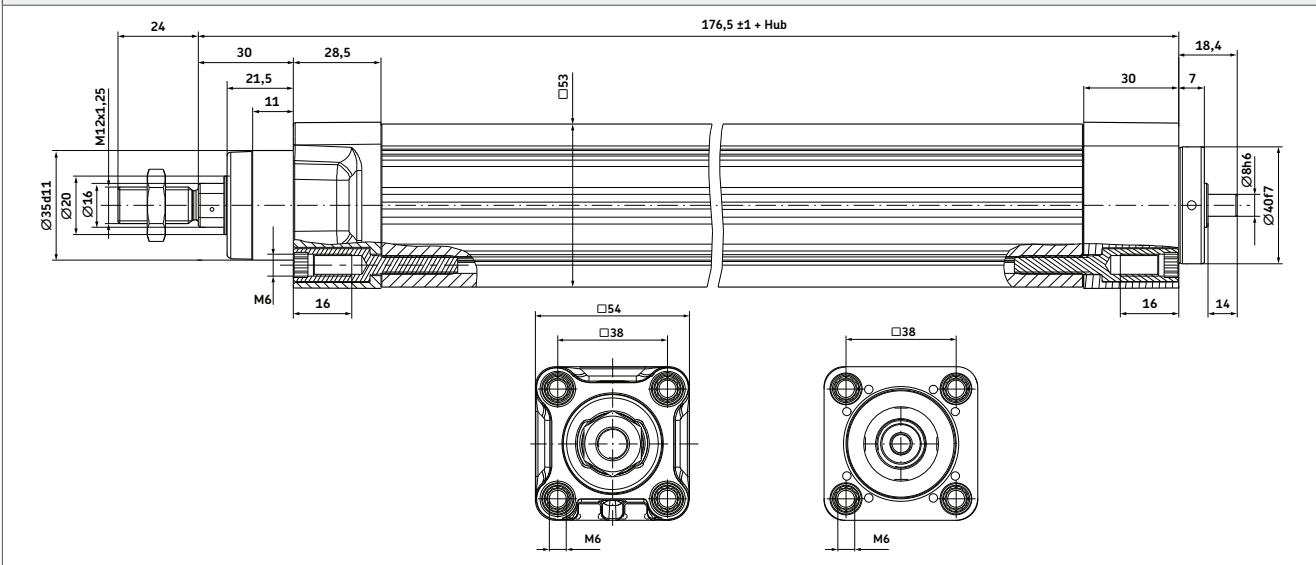


Motor data | BG 65Sx50 PI

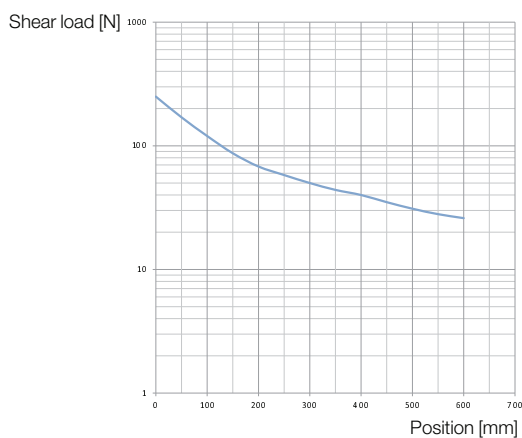
Nominal torque (100 K)	M	Nm	0.64
Stall torque (20°C)	M_0	Nm	1.41
Nominal rotational speed	ω	1/min	3595
Nominal voltage	U	V DC	40
Nominal current (100 K)	I	A	7
Peak current (2 s)	I_{peak}	A	20
Max. output power (20°C)	P_{out}	kW	0.395
Inertia with brake	J	kgm ²	0.0129
Weight with brake	m	kg	1.65

» Cylinder data

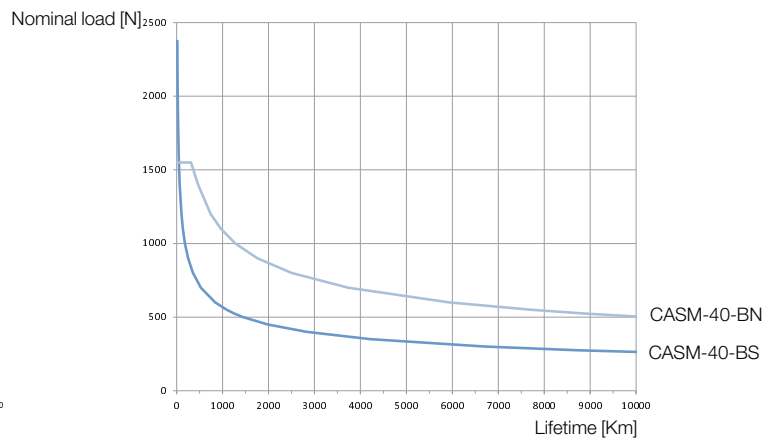
Dimensions



Characteristic Diagrams



Shear load diagram
The shear load acts at right angles to the movement direction.



Lifetime diagram

Screw type

Lead screw	12x2.5 mm	LS
Ball screw	12x5 mm	BS
Ball screw	12.7x12.7 mm	BN

Stroke

	100 mm
	200 mm
	300 mm
	200 mm
	400 mm
	500 mm
	600 mm