

» CASM-63 | Brushless DC motor BG 75 and adapters

CASM-63 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 40 V DC power supply and program up to 14 motion profiles with your computer and the programming accessory kit.

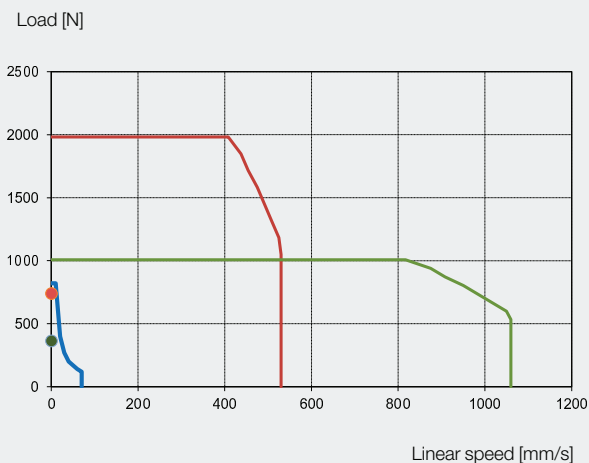
After programming the motor, the motion profile can be activated by 2 – 4 binary signals (PLC outputs or switches) and the actuator will run to the defined position.

The brushless DC motor, BG 75x75 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.

Load/ linear speed diagram

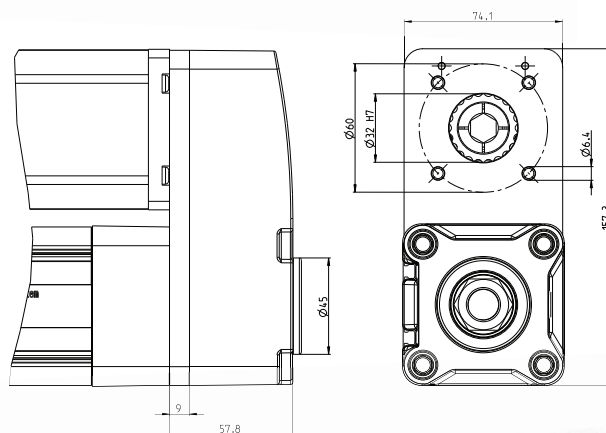


- CASM-63-BN - Peak Torque
- CASM-63-BN Brake
- CASM-63-BF - Peak Torque
- CASM-63-BF Brake
- CASM-63-L S

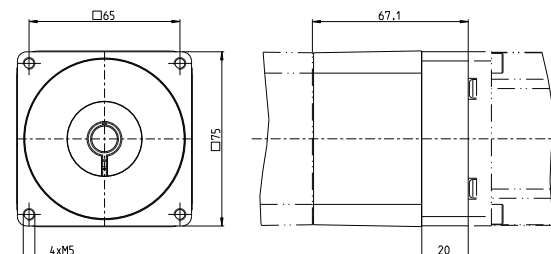
Load = force acting on the actuator
(gravity force + acceleration force + constant force)



Parallel adapter kit

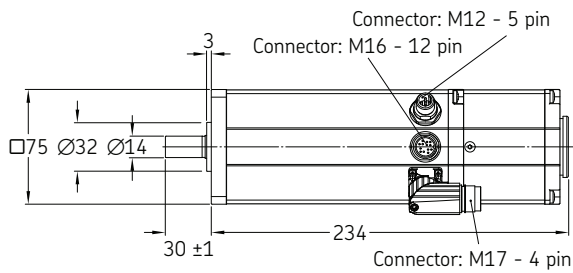


In-line adapter kit



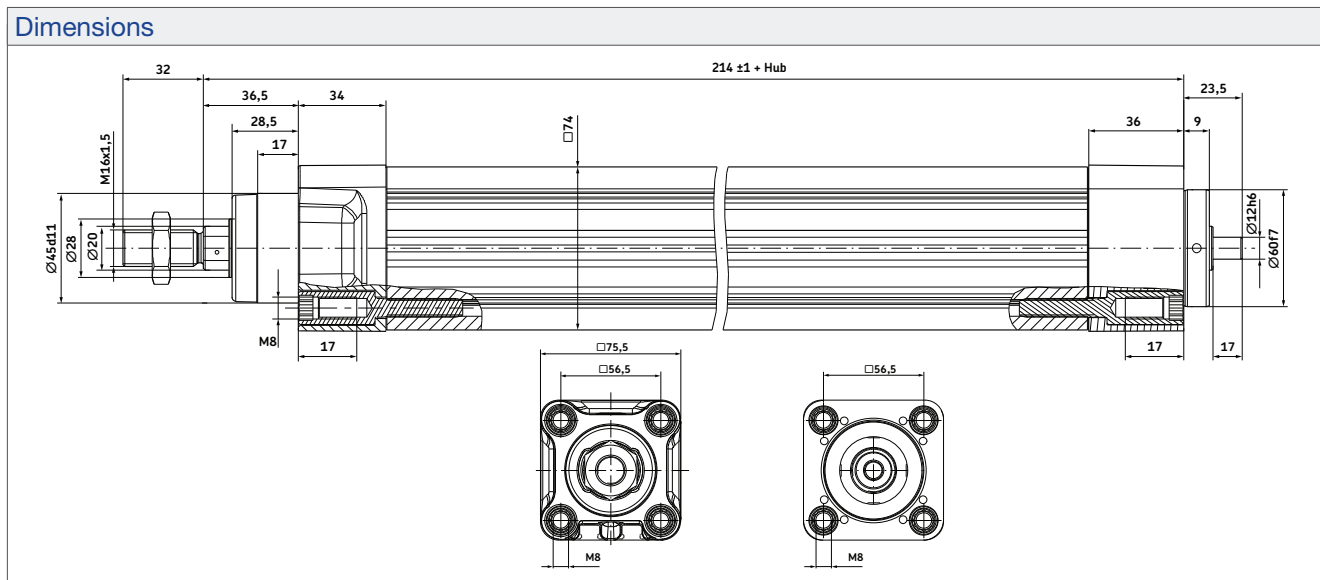
» Motor data

BLDC motor BG 75 | with PI interface and brake

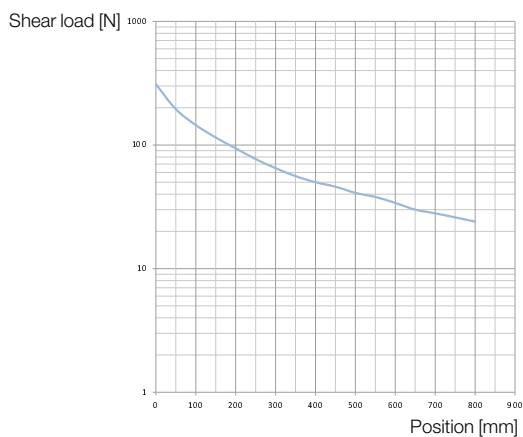


Motor data BG 75x75 PI			
Nominal torque (100 K)	M	Nm	1.16
Stall torque (20°C)	M_0	Nm	4.1
Nominal rotational speed	ω	1/min	3700
Nominal voltage	U	V DC	40
Nominal current (100 K)	I	A	12.7
Peak current (2 s)	I_{peak}	A	50
Max. output power (20°C)	P_{out}	kW	0.95
Inertia with brake	J	kgm ²	0.062
Weight with brake	m	kg	3.08

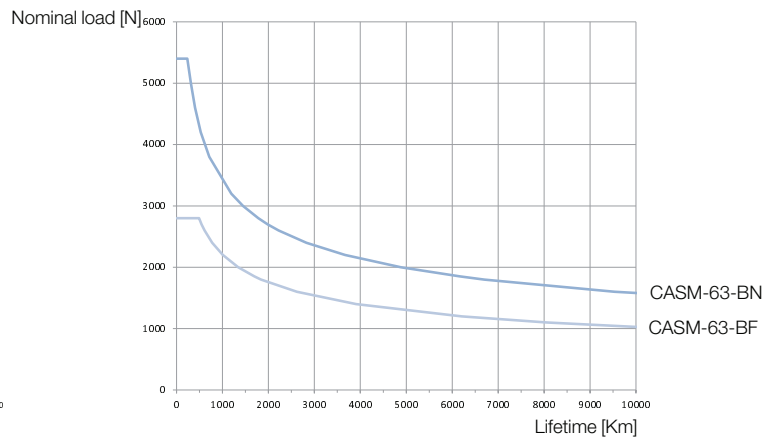
» Cylinder data



Characteristic Diagrams



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



Lifetime diagram

Screw type

Lead screw	20x4 mm	LS
Ball screw	20x10 mm	BN
Ball screw	20x20 mm	BF

Stroke

100 mm
200 mm
300 mm
400 mm
500 mm
600 mm
700 mm
800 mm