

Helical Geared Motor Series BG

Three phase shaft mounted geared motors for driving machines and equipment of all types

Powerful and long-lasting!

Drive solutions from 0.03 kW to 75 kW







Gearbox

• Torque: 20 Nm ... 18,500 Nm

• Ratios:

2.46 - 73.13 two-stage: 12.45 - 259.00 three-stage:

- Versatile installation possibilities
- Completely enclosed and dust-tight
- Protection against water jets
- Lubrication change first
 - after 15,000 hrs (mineral oil)
 - after 25,000 hrs (synthetic oil)
- Low noise gearing

Motors

• Power: 0.03 kW ... 75 kW • Mains supply: 110 V ... 690 V. 50/60 Hz

• Enclosure: IP 54 (standard only

for D04 and D05) IP 65 (standard) IP 66 - IP 68 (optional)

standard with Connection:

CAGE CLAMP®

Options

- Connecting with plug connectors
- With integrated inverter up to 7.5 kW
- IE3 up to 75 kW with ASM
- IE4 up to 11 kW with PMSM

Brakes

• Enclosure IP 65 (Standard)

IP 66 and IP 68 (optional)

- Performance and application optimised brake range
- Maintainance friendly design

Standards

ATEX

INMETRO

• CCC

• ISO14001

CE marking

• IS09001

CSA

• OHSAS18001

• EAC

• []

General

• Corrosion protection: C1 ... C5. IM2 based on DIN EN ISO 12944-5





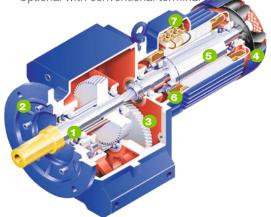




7 CAGE CLAMP®







Helical Geared Motor Series BF

Powerful and long-lasting!

Bauer Gear Motor supplies modern drive solutions for all industry sectors in which material must be moved.

Design

- As standard in 2-stage design, as from BG100 3-stage.
- Generously dimensioned working shaft and bearings.
- Higher ratios available through attachment of a purpose built pre-stage or pre-connected gearbox.
- Universal housing with completely new, low height installation possibilities.

2 Housing

- State-of-the-art gearbox housing designed for operation under harsh conditions.
- Compact closed housing is ideal for preventing lubricant loss and dirt build-up.
- High tensile cast housing.
- Vibration-free housings, noise absorbent and resistant against chemical effects.
- The housing is machined in a single clamping process.
- Stator housings with casing and cooling fins are manufactured in one casting and ensure efficient heat dissipation.
- Motor housings, bearing covers and terminal boxes made of corrosion resistant aluminium die casting.

Gear wheels

- Gear wheels made of high tensile and case hardened steel.
- Highly wear resistant through flank hardness of 60-62 HRC.
- Impervious to shock.
- Tooth flanks shaved, hobbed or ground.
- Strong, non-flexible pinion shafts and bearings guarantee exact tooth meshing

4 Stator winding

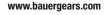
- The stator winding is manufactured from high quality enamelled copper wire with state-of-the-art three layer insulation in the groove and winding head.
- The stator winding is impregnated with a damp-proof and tropical safe resin.
- The electrical design of the motor is adapted to the gearbox.

6 Rotor

- Aluminium die cast cage rotor ensures a high reliability at high starting torques and low starting currents.
- Pull-up torques are mostly avoided.

6 Terminal box

- Spacious terminal box also completely sealed against dust and water spray.
- A large measure on safety through CAGE CLAMP® connection technology on the winding ends and motor connection.
- Handy terminals allow easy connection.



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