

Worm Geared Motor Series BS

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

Space-saving!

Drive solutions from 0.03 kW to 5.5 kW









Gearbox

• Torque: 25 Nm ... 1,000 Nm

• Ratios:

4.6 - 75.0 one-stage: 6.13 - 418.0 two-stage:

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

Motors

Power: 0.03 kW ... 5.5 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)

Connection: Standard with

CAGE CLAMP®

Options

- Connecting with plug connectors
- With integrated inverter up to 5.5 kW
- IE3 up to 5.5 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
- Maintenance friendly design

Standards

ATEX

• INMETRO

• CCC

• IS014001

CE marking

• IS09001

CSA

• OHSAS18001

• EAC

• []

General

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

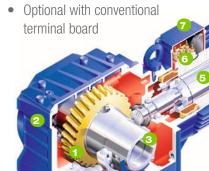






7 CAGE CLAMP®

 CAGE CLAMP® connection technology as standard.





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Space-saving!

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

Design

- As standard in 2-stage design, sizes BS02 and BS03 are 1-stage.
- Higher ratios available through attachment of a purpose built pre-stage or pre-connected gearbox.
- Many installation possibilities foot or flange with single or double shaft end, hollow shaft with key or shrink disc design with torque arm - make these angular gear boxes an ideal space saving drive element.
- An economic solution for small torques and very small speeds.

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 housing, 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.
- Worm wheels made of high quality, wear resistant bronze.

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.

