



Bevel Geared Geared Motor Series BK

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



High efficiency!

Drive solutions from 0.03 kW to 75 kW

Gearbox

- Torque: 80 Nm ... 18,500 Nm
- Ratios:
two-stage: 3.67 - 108.60
three-stage: 7.29 - 175.70
- Versatile installation possibilities
- Completely enclosed, sealed against dust and water spray
- 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 D..04 and D..05)
IP 65 (standard)
IP 66 - IP 68 (optional)
- Connection: Standard with 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
- Maintenance friendly design

Standards

- ATEX
- CCC
- CE marking
- CSA
- EAC
- INMETRO
- ISO14001
- ISO9001
- OHSAS18001
- UL

General

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



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

1 Design

- As standard in 2-stage design, as from BK60 3-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.
- Symetric housing design of the 2-stage gearboxes gives the user many further 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 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.

3 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.

5 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.

7 CAGE CLAMP®

- CAGE CLAMP® connection technology as standard.
- Optional with conventional terminal board

