International Combustion

# BAUER Bevel Geared Motor Type BK



## Series B 2000

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

Bauer supplies modern drive solutions for all industry sectors in which material must be moved. The customer benefit lies in the robustness and durability of our products. The simple and cost effective installation, the minor service necessity and the high efficiency reduce the costs throughout the whole life of the drive. The Bauer-Service is at your disposal world-wide. Bauer geared motors and VLT® Frequency Converters make drive solutions possible in the power range 0.06 to 75 kW.

Proximity to the customer, both geographical and psychological, is an important pre-requisite for good co-operation. Our highly qualified advisors, technicians and fitters are working for you round the world. They speak your language – literally.

**Standards**

| | |
|---|---|
| CE-Mark. | |
| Motors according to EN 60034. | |

**Gearbox**

| | |
|---|---|
| Torque | 200 ... 18.500 Nm. |
| Output Speeds | 0.2 ... 280 $min^{-1}$ |
| versatile installation possibilities. | |
| Completely enclosed, sealed against dust and water spray | |
| Lubrication change first after 15000 hrs.. | |
| Low noise gearing. | |

**Motors**

| | |
|---|---|
| Power | 0.03 ... 75 kW. |
| Mains connection | 110 ... 690V, 50/60Hz. |
| Enclosure | IP65 (Standard), IP66 (Optional). |
| Additional features | Connection with Plug connectors. |
| | With integrated inverter up to 7.5 kW. |

**Brakes**

| | |
|---|---|
| Enclosure | IP65 (Standard). |
| Brakes manufactured in-house. | |
| Maintenance friendly design. | |

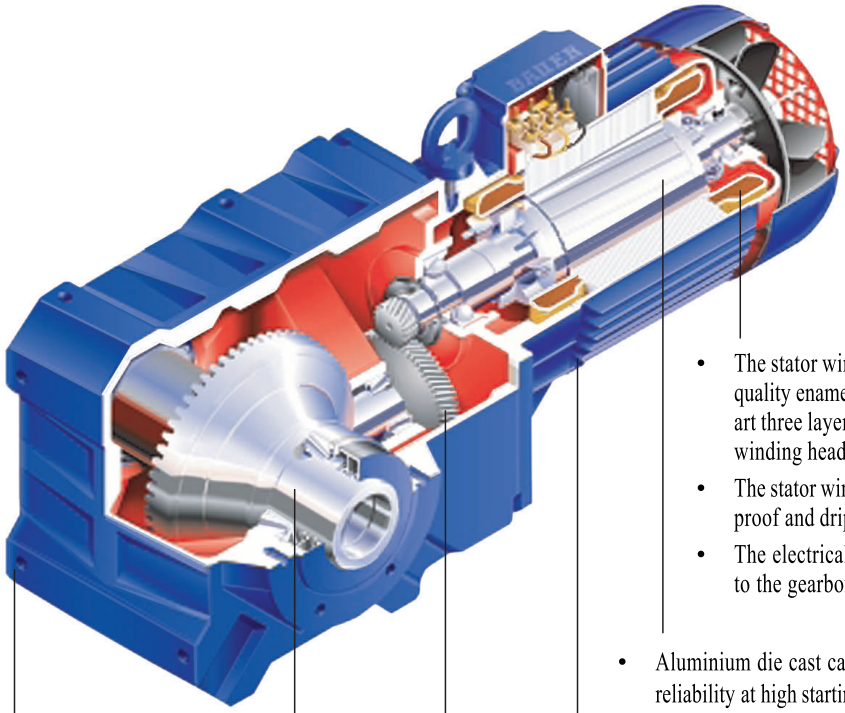
**General**

| | |
|---|---|
| Corrosion protection | CORO1, CORO2, CORO3. |

BAUER geared motors

Manufactured under licence from
Bauer Gear Motor GmbH, Germany

# BAUER Bevel Geared Motor Type BK



- 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.
- Housing with no vibrations, noise absorbent and resistant against chemical effects.
- The housing is machined in a single clamping process.

- Series BK as standard in 2-stage design, 3-stage as from BF60.
- Generously dimentioned working shaft and bearings.
- Higher ratios available through attachment of a pur-pose built pre-stage or pre-connected gearbox.
- A variety of possible installation methods - foot- or flange with single or double output shaft, shaft mounting with hollow shaft in keyed or shrink disk version with torque arm – make this right angle gearbox an ideal space saving drive element.
- A symmetrical gearbox design for the 2-stage gearboxes opens a wide range of further installation possibilities for the user.

- 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 drip-free resin.
- The electrical design of the motor is adapted to the gearbox.

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

- Stator housing with jacket and cooling fins are manufactured in one casting and ensure efficient heat dissipation.
- Motor housing, bearing covers and terminal boxes made of corrosion resistant aluminium die casting.
- Stator housing also available in cast iron.
- Spacious terminal box also completely sealed against dust and water spray.
- A large measure on safety through sturdy cable lugs on the winding ends.
- Handy terminals allow easy connection.

- 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 an exact tooth meshing.


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