CKA Birla Group | nbc®

BEARING SOLUTIONS
for electric motor

Electric motor consumes approximately 70% of the electrical energy used in the industry. Reducing energy usage and helping environment are the main focus for electrical motor manufacturers. To save energy and operational cost, NBC has developed number of bearing solutions for electric motor manufacturers. Our expertise guarantees ultimate design, product and testing to meet customer specific requirements for energy efficient motors.

Major operational challenges

- High starting torque
- Noise
- Wide temperature range
- Contamination
- Relubrication challenges
- Current leakage in VFD

Bearings requirements

- Low noise
- Low running torque
- Protection from current
- Wide temperature grease
- Control clearance
- Effective sealing
- Special grade balls
- Enhance life

Features and benefits

- **EM Bearing for low noise application.** Bearings are with special grease, optimum clearance and special grade balls
- **Special low torque seals** provide extreme protection against contamination
- **InsuOhm Bearing for Electirc insulation.** Coating ensures protection from current even in moist environment and also protects from heat and chemicals
- **Superior accuracies and surface finish** for lower operating temperature
- **Special cage design** for specific applications or on demand

WINNER DEMING GRAND PRIZE

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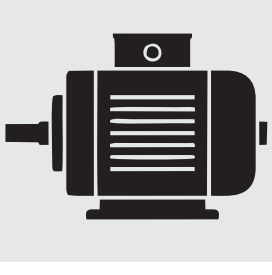
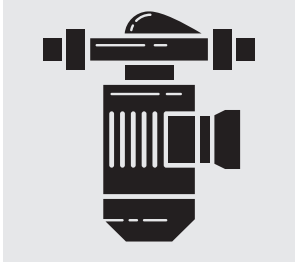
Bearing applications

- Fractional motors
- General purpose motors
- High speed motors
- Mill motors
- Variable drive
- Severe duty motors

The bearings are designed for low friction and noise with effective sealing. These bearings are tested to ensure low levels of noise and vibration.



HORIZONTAL ELECTRIC MOTOR



VERTICAL ELECTRIC MOTOR

Deep Groove Ball Bearing

Single Row Angular Contact Ball Bearing

Cylindrical Roller Bearing

Taper Roller Bearing

Double Row Angular Contact Ball Bearing

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