

Electrically Insulated Bearing

This electric insulation bearing features a specialized coating applied to its outer surface. It prevents electrical corrosion from induced current, protecting grease and components while extending bearing life, especially in variable frequency motors and generators.



ADDITIONAL IMAGES



Product Overview

High-Performance Electrical Insulation

These electrically insulated bearings feature a specialized aluminum oxide coating applied through an advanced spraying process to the outer or inner rings. This coating effectively blocks induced currents, preventing electrical erosion and damage to the grease, rolling elements, and raceways. By eliminating current-related wear, these bearings significantly extend service life in demanding electrical environments.

Technical Performance

Insulation Performance

1000 V

Standard DC Voltage

3000 V

Max Custom Voltage

Equivalent Standards

VL0241, VL2071, J20AA

Customizable Voltage Range

500V to 3000V DC based on customer requirements

Product Varieties

Available Bearing Types

- Deep Groove Ball Bearings
- Angular Contact Ball Bearings
- Self-aligning Ball Bearings
- Cylindrical Roller Bearings
- Tapered Roller Bearings

Insulated Model Series

Series	Model Range
60 Series	6010/C3VL0241 - 6096/C3VL0241
62 Series	6210/C3VL0241 - 6260/C3VL0241
63 Series	6310/C3VL0241 - 6352/C3VL0241

Applications

Target Industries

Electric Motors • Generators • Variable Frequency Motors • Railway • Mining & Metallurgy • Petrochemical • High-Voltage Motors

Manufacturing & Quality

Key Advantages

- Strong bonding force with substrate
- Superior electrical erosion resistance
- Extended grease service life
- International bearing code compliance

Coating Material

High-quality Aluminum Oxide (Al₂O₃)