Insulated Deep Groove Ball Bearing for Electric Motors

Insulated bearings are designed for electric motors, providing electrical insulation to prevent current leakage. The 6317/C3VL0241 bearing features specific dimensions, clearances, and insulation characteristics, tailored for electric motor requirements.

Product Overview

Precision-engineered insulated bearing designed to prevent electrical erosion in motor applications.

High-Performance Insulated Bearings

These deep groove ball bearings are specifically engineered for electric motors to prevent electrical erosion and current leakage. By utilizing advanced insulation technology on either the inner or outer ring, they protect against bearing damage caused by electrical discharge, significantly extending motor lifespan. Designed for high-speed operation and heavy loads, these bearings ensure reliable performance in demanding industrial applications such as power generation and manufacturing.

Technical Specifications

The robust construction ensures smooth operation and extended service life under demanding conditions.

Radial Internal Clearance
C3 (Greater than Normal)

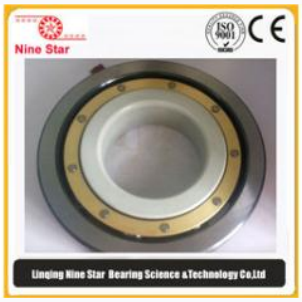
Bearing Model	6317/C3VL0241
Bearing Type	Deep groove ball bearing
Dimensions (d x D x B)	85 x 180 x 41 mm

Physical Dimensions

Key Dimensions

85 mm	180 mm	41 mm
Bore Diameter (d)	Outer Diameter (D)	Width (B)

Insulation Characteristics



Featuring C3 radial internal clearance to accommodate thermal expansion during high-speed operation.

Insulation Performance Tiers

Suffix Code	Breakdown Voltage	Electrical Resistance	Coated Ring
VL0241	1000V DC	>50M©	Outer Ring
VL2071	1000V DC	>50M©	Inner Ring
VL0244	2000V DC	>150M©	Outer Ring
VL2074	2000V DC	>150M©	Inner Ring
VL0246	3000V DC	>150M©	Outer Ring
VL2076	3000V DC	>150M©	Inner Ring

Logistics & Service

Available Services

- Neutral Packing
- OEM Service
- Customized Requests

Packaging	Carton boxes, Wooden Cases, Pallets

Compliance

Quality Standards	ISO 9001, CE