

# 6312-2RS1/C3VL0241 Insulated Deep Groove Ball Bearing

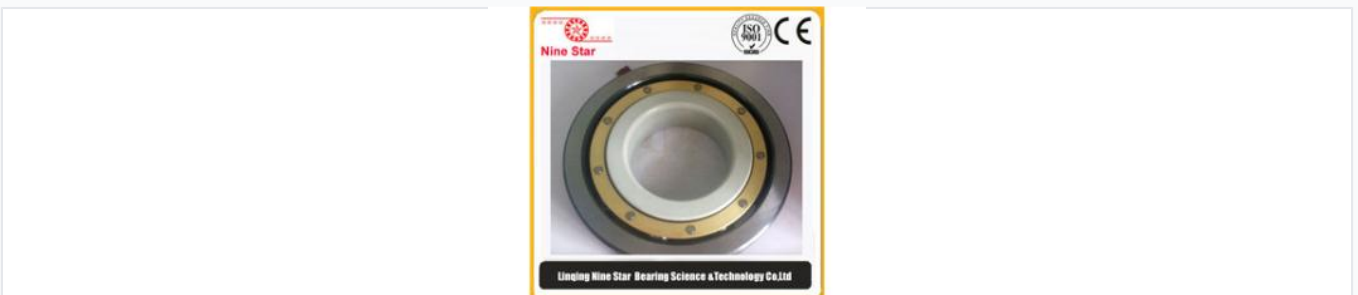
This insulated deep groove ball bearing features rubber seals for enhanced protection against contaminants and moisture. The C3 internal clearance provides optimal performance under demanding operating conditions.



## ADDITIONAL IMAGES



## Product Overview



### High-Performance Insulated Deep Groove Ball Bearing

The 6312-2RS1/C3VL0241 is a precision-engineered deep groove ball bearing designed for demanding industrial environments where electrical insulation is critical. It features integrated rubber seals (2RS1) on both sides to provide superior protection against contaminants and moisture while retaining essential lubrication. With C3 internal clearance, this bearing is optimized for high-speed applications and thermal expansion, ensuring reliable performance in electric motors and generators.

## Core Dimensions

Bore Diameter (d)	60 mm
Outer Diameter (D)	130 mm
Width (B)	31 mm

## Technical Specifications



### Internal Clearance

C3 (Greater than Normal)

### Bearing Type

Deep groove ball bearing

### Sealing Solution

2RS1 (Rubber seals on both sides)

## Electrical Insulation



### Insulation Performance

**1000 V DC**

Breakdown Voltage

**50 M $\Omega$**

Min. Electrical Resistance

### Insulated Component

Outer ring coated (VL0241)

## Insulation Variants

### Available Insulation Specifications

Suffix	Breakdown Voltage	Resistance	Coated Part
VL0241	1000V DC	>50M $\Omega$	Outer ring
VL2071	1000V DC	>50M $\Omega$	Inner ring
VL0244	2000V DC	>150M $\Omega$	Outer ring
VL2074	2000V DC	>150M $\Omega$	Inner ring
VL0246	3000V DC	>150M $\Omega$	Outer ring
VL2076	3000V DC	>150M $\Omega$	Inner ring

## Logistics & Compliance

### Packaging Options

- Carton boxes
- Wooden Cases
- Pallets

### Standards & Compliance

ISO 9001, CE