

# Insulated Deep Groove Ball Bearing 45x100x25mm

This insulated deep groove ball bearing prevents current passage. It has dimensions of 45x100x25mm.



## Overview



High-performance insulated bearing designed to prevent damage from stray currents in electric motors.

### High-Performance Electrically Insulated Bearing

This deep groove ball bearing is specifically engineered for electrical applications where preventing current passage is critical. Featuring a specialized non-conductive coating, it protects equipment from electrical erosion and premature failure. It is an ideal solution for ensuring reliable performance and extended service life in motors, generators, and other electrical machinery.

## Technical Dimensions



Engineered for optimal load capacity and smooth operation in demanding electrical environments.

### Main Dimensions

<b>45 mm</b> Bore Diameter (d)	<b>100 mm</b> Outer Diameter (D)	<b>25 mm</b> Width (B)
-----------------------------------	-------------------------------------	---------------------------

<b>Bearing Code</b>	6309M/C4VL0241
<b>Bearing Type</b>	Deep groove ball bearing

## Electrical Specifications



The non-conducting ceramic coating is applied to the rings to ensure electrical isolation.

### Insulation Performance (VL0241)

Property	Value
Breakdown Voltage	1000V DC
Electrical Resistance	>50M $\Omega$
Coated Component	Outer ring

### Available Insulation Variants

Suffix	Voltage	Resistance	Coating Location
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 & Service

### Available Services

- Neutral Branding
- OEM Service
- Custom Requests

### Packaging Options

Carton boxes, Wooden Cases, Pallets

## Compliance

### Quality Standards

ISO 9001 • CE