

# 6316 M/C3VL0241 INSOCOAT deep groove ball bearings

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## Dimensions:

## Calculation data:

Basic dynamic load rating	C	124	kN
Basic static load rating	C0	86.5	kN
Fatigue load limit	Pu	3.25	kN
Reference speed		8500	r/min
Limiting speed		7500	r/min
Calculation factor	kr	0.03	
Calculation factor	f0	13.3	

**Mass:**

Mass bearing	4.17	kg
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Electric motors, generators and associated equipment are at risk when an electric current passes through their bearings. This can damage the contact surfaces of rolling elements and raceways in the bearings (electrical erosion) and rapidly degrade the grease. An additional risk in electric motors and generators comes from high frequency currents caused by the inherent stray capacitance. The risk of damage increases where the application uses a frequency converter.

**INSOCOAT bearings:**

- are designed to prevent electric current from passing through the bearing
- have the external surfaces of either their inner or outer ring coated with an insulating aluminium oxide layer, by applying a sophisticated plasma-spray process for an outstanding quality finish
- are a very cost-effective solution compared with other insulation methods

**Bearing features**

- **Protection against electrical erosion**  
With insulating properties integrated into the bearing, INSOCOAT bearings can improve reliability and increase machine uptime by virtually eliminating the problem of electrical erosion.
- **High electrical resistance**  
The aluminium oxide coating provides a minimum electrical resistance of 200 M $\Omega$  and can withstand voltages up to 3 000 V DC.
- **Consistent electrical performance**  
Plasma-spray coatings are normally hygroscopic and, therefore, vulnerable to penetration caused by condensation. To protect against this effect, INSOCOAT bearings are treated with a unique sealant.

Services & Solutions from [Industrial Bearings Solutions](#) range from new machine development and design of 6316 M/C3VL0241 INSOCOAT deep groove ball bearings verification, to reconditioning, Integrated Maintenance Solutions, training and remote monitoring. Industrial Bearings Solutions can help you reduce your operation's energy usage and improve its sustainability. And Industrial Bearings Solutions will work with you to define where to focus, and how to get the fastest return on your investment for 6316 M/C3VL0241 INSOCOAT deep groove ball bearings.