

6324/C3VL2071

INSOCOAT® deep groove ball bearing



INSOCOAT single row deep groove ball bearings feature an electrically insulating coating on the outside surfaces of either the inner or outer bearing ring. This keeps stray electric currents from passing through the bearings, protecting them against electrical erosion damage and helping prevent lubricant degradation resulting from electric current discharge. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Coating protects against electrical erosion damage
- Reduced lubricant degradation resulting from electric current discharge
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	120 mm
Outside diameter	260 mm
Width	55 mm

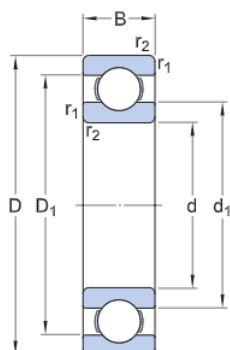
Performance

Basic dynamic load rating	216 kN
Basic static load rating	186 kN
Reference speed	5 600 r/min
Limiting speed	3 400 r/min

Properties

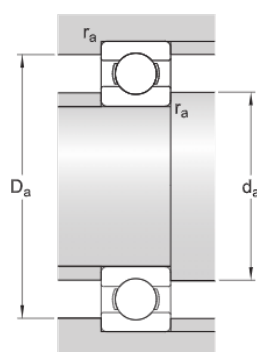
Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	C3
Material, bearing	Bearing steel
Coating	Insulation coating on inner ring
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification



Dimensions

d	120 mm	Bore diameter
D	260 mm	Outside diameter
B	55 mm	Width
d ₁	≈ 164.6 mm	Shoulder diameter inner ring
D ₁	≈ 214.7 mm	Shoulder diameter outer ring
r _{1,2}	min. 3 mm	Chamfer dimension



Abutment dimensions

d _a min.	134 mm	Abutment diameter shaft
d _a max.	158 mm	Abutment diameter shaft
D _a max.	246 mm	Abutment diameter housing
r _a max.	2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	216 kN
Basic static load rating	C ₀	186 kN
Fatigue load limit	P _u	5.7 kN
Reference speed		5 600 r/min
Limiting speed		3 400 r/min
Calculation factor	k _r	0.03
Calculation factor	f ₀	13.5

Mass

Mass bearing	12.5 kg
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