

6224/C3VL0241



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	215 mm
Width	40 mm

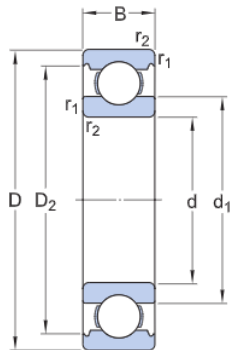
Performance

Basic dynamic load rating	153 kN
Basic static load rating	118 kN
Limiting speed	4 000 r/min
Reference speed	6 300 r/min

Properties

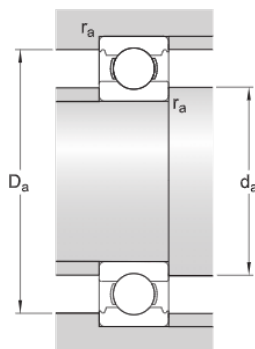
Bore type	Cylindrical
Cage	Sheet metal
Coating	Insulation coating on outer ring
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	C3
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	120 mm	Bore diameter
D	215 mm	Outside diameter
B	40 mm	Width
d_1	≈ 150.6 mm	Shoulder diameter inner ring
D_1	≈ 184.1 mm	Shoulder diameter outer ring
$r_{1,2}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 132 mm	Abutment diameter shaft
D_a	min. 194 mm	Abutment diameter shaft
D_a	max. 203 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	153 kN
Basic static load rating	C_0	118 kN
Fatigue load limit	P_u	3.9 kN
Reference speed		6 300 r/min
Limiting speed		4 000 r/min
Calculation factor	k_r	0.025
Calculation factor	f_0	14.4

Mass

Mass bearing

5.2 kg

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