

6216/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	80 mm
Outside diameter	140 mm
Width	26 mm

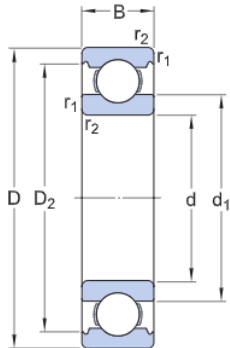
Performance

Basic dynamic load rating	72.8 kN
Basic static load rating	55 kN
Limiting speed	6 000 r/min
Reference speed	9 500 r/min

Properties

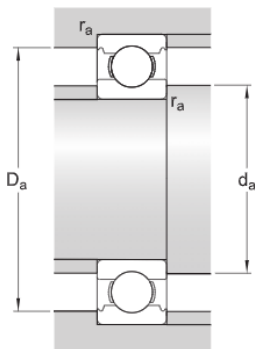
Bore type	Cylindrical
Cage	Sheet metal
Coating	Insulation coating on outer ring
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	C3
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	80 mm	Bore diameter
D	140 mm	Outside diameter
B	26 mm	Width
d ₁	≈ 101.4 mm	Shoulder diameter inner ring
D ₂	≈ 122 mm	Recess diameter outer ring shoulder
r _{1,2}	min. 2 mm	Chamfer dimension



Abutment dimensions

d _a	min. 91 mm	Abutment diameter shaft
D _a	min. 128 mm	Abutment diameter shaft
D _a	max. 129 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	72.8 kN
Basic static load rating	C ₀	55 kN
Fatigue load limit	P _u	2.2 kN
Reference speed		9 500 r/min
Limiting speed		6 000 r/min
Calculation factor	k _r	0.025
Calculation factor	f ₀	15

Mass

Mass bearing

1.4 kg

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