

6228/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	140 mm
Outside diameter	250 mm
Width	42 mm

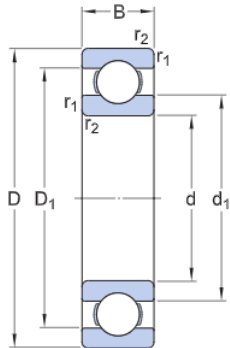
Performance

Basic dynamic load rating	174 kN
Basic static load rating	150 kN
Limiting speed	3 400 r/min
Reference speed	5 300 r/min

Properties

Bore type	Cylindrical
Cage	Sheet metal
Coating	Insulation coating on inner 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

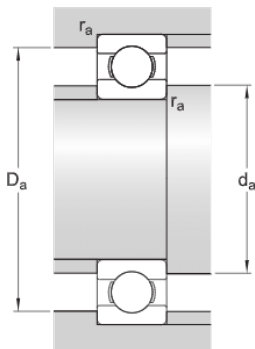
Technical Specification



Dimensions

d	140 mm	Bore diameter
D	250 mm	Outside diameter
B	42 mm	Width
d_1	≈ 175.5 mm	Shoulder diameter inner ring
D_1	≈ 212.5 mm	Shoulder diameter outer ring
$r_{1,2}$	min. 3 mm	Chamfer dimension

Abutment dimensions



d_a min.	154 mm	Abutment diameter shaft
d_a max.	170 mm	Abutment diameter shaft
D_a max.	236 mm	Abutment diameter housing
r_a max.	2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	174 kN
Basic static load rating	C_0	150 kN
Fatigue load limit	P_u	4.55 kN
Reference speed		5 300 r/min
Limiting speed		3 400 r/min
Calculation factor	k_r	0.025
Calculation factor	f_0	14.9

Mass

Mass bearing

7.45 kg

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