

6417

Deep groove ball bearing

Single row deep groove ball bearings 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.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance



Overview

Dimensions

Bore diameter	85 mm
Outside diameter	210 mm
Width	52 mm

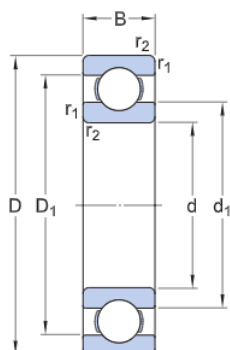
Performance

Basic dynamic load rating	174 kN
Basic static load rating	137 kN
Reference speed	7 000 r/min
Limiting speed	4 500 r/min

Properties

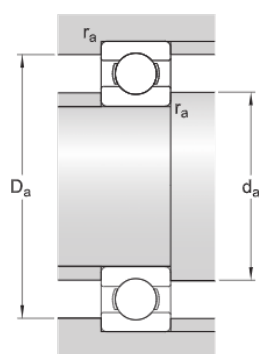
Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification



Dimensions

d	85 mm	Bore diameter
D	210 mm	Outside diameter
B	52 mm	Width
d ₁	≈ 123 mm	Shoulder diameter
D ₁	≈ 171.25 mm	Shoulder diameter
r _{1,2}	min. 4 mm	Chamfer dimension



Abutment dimensions

d _a	min. 105 mm	Diameter of shaft abutment
D _a	max. 190 mm	Diameter of housing abutment
r _a	max. 3 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	174 kN
Basic static load rating	C ₀	137 kN
Fatigue load limit	P _u	4.75 kN
Reference speed		7 000 r/min
Limiting speed		4 500 r/min
Minimum load factor	k _r	0.035
Calculation factor	f ₀	12.3

Mass

Mass bearing	8.05 kg
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Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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