

6224



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	120 mm
Outside diameter	215 mm
Width	40 mm

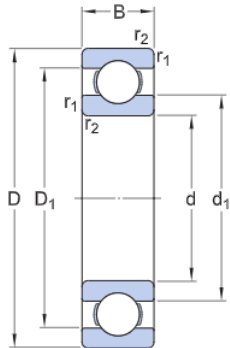
Performance

Basic dynamic load rating	146 kN
Basic static load rating	118 kN
Limiting speed	4 000 r/min
Reference speed	6 300 r/min

Properties

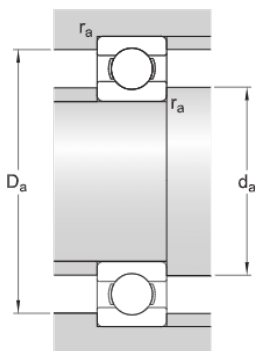
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	120 mm	Bore diameter
D	215 mm	Outside diameter
B	40 mm	Width
d_1	≈ 150.6 mm	Shoulder diameter
d_2	≈ 118.1 mm	Recess diameter
D_1	≈ 184.1 mm	Shoulder diameter
$r_{1,2}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 132 mm	Diameter of shaft abutment
D_a	max. 203 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	146 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
Minimum load factor	k_r	0.025
Calculation factor	f_0	14.4

Mass

Mass bearing	5.27 kg
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Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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