

# 6224 Deep groove ball bearing



## 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
Reference speed	6 300 r/min
Limiting speed	4 000 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
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

# Technical Specification

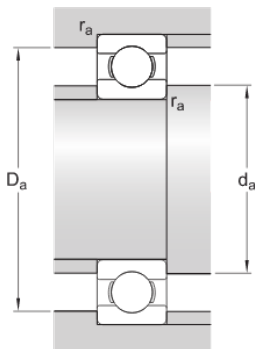


## Dimensions

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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