

# 61984 MA

## 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	420 mm
Outside diameter	560 mm
Width	65 mm

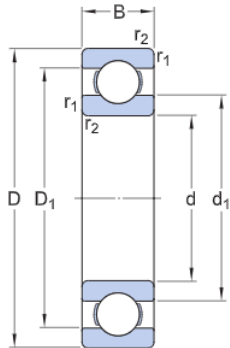
### Performance

Basic dynamic load rating	351 kN
Basic static load rating	600 kN
Limiting speed	1 800 r/min
Reference speed	2 200 r/min

### Properties

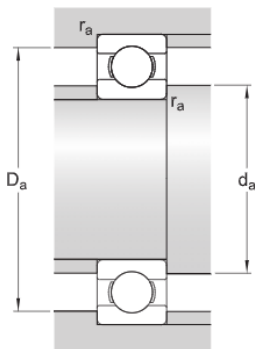
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

# Technical Specification



## Dimensions

d	420 mm	Bore diameter
D	560 mm	Outside diameter
B	65 mm	Width
d <sub>1</sub>	≈ 465.2 mm	Shoulder diameter
D <sub>1</sub>	≈ 515.78 mm	Shoulder diameter
r <sub>1,2</sub>	min. 4 mm	Chamfer dimension



## Abutment dimensions

d <sub>a</sub>	min. 435 mm	Diameter of shaft abutment
D <sub>a</sub>	max. 545 mm	Diameter of housing abutment
r <sub>a</sub>	max. 3 mm	Radius of shaft or housing fillet

## Calculation data

Basic dynamic load rating	C	351 kN
Basic static load rating	C <sub>0</sub>	600 kN
Fatigue load limit	P <sub>u</sub>	11.4 kN
Reference speed		2 200 r/min
Limiting speed		1 800 r/min
Minimum load factor	k <sub>r</sub>	0.02
Calculation factor	f <sub>0</sub>	16.8

## Mass

Mass bearing	43 kg
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## Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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