



# 313 Deep groove ball bearing with filling slots

## Deep groove ball bearing with filling slots

Single row deep groove ball bearings with filling slots accommodate more balls than standard deep groove ball bearings. They are of a simple, yet versatile, design and are robust in operation, requiring little maintenance. They can accommodate radial and axial loads in both directions. They have a higher radial load carrying capacity than the corresponding bearings without filling slots but have a limited axial load carrying capacity due to the filling slots.

- Simple, versatile and robust design
- Accommodate higher radial loads than corresponding bearings without filling slots, with limited axial loads in both directions
- Require little maintenance

## Overview

### Dimensions

Bore diameter	65 mm
Outside diameter	140 mm
Width	33 mm

### Performance

Basic dynamic load rating	102 kN
Basic static load rating	90 kN
Reference speed	9 000 r/min
Limiting speed	5 300 r/min

### Properties

Filling slots	With
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

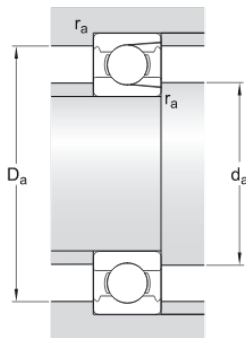


## Dimensions

d	65 mm	Bore diameter
D	140 mm	Outside diameter
B	33 mm	Width
$d_1$	≈ 88.35 mm	Shoulder diameter
$D_2$	≈ 121.3 mm	Recess diameter
$r_{1,2}$	min. 2.1 mm	Chamfer dimension

## Abutment dimensions

$d_a$	min. 77 mm	Diameter of shaft abutment
$D_a$	max. 128 mm	Diameter of housing abutment
$r_a$	max. 2 mm	Radius of shaft or housing fillet



## Calculation data

Basic dynamic load rating	C	102 kN
Basic static load rating	$C_0$	90 kN
Fatigue load limit	$P_u$	3.75 kN
Reference speed		9 000 r/min
Limiting speed		5 300 r/min
Minimum load factor	$k_r$	0.05

## Mass

Mass bearing	2.3 kg
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## Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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