



# 307-2Z Deep groove ball bearing with filling slots and integral sealing

## Deep groove ball bearing with filling slots and integral sealing

Single row deep groove ball bearings with filling slots and shields on one or both sides, 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. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- 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	35 mm
Outside diameter	80 mm
Width	21 mm

### Performance

Basic dynamic load rating	34.7 kN
Basic static load rating	26.5 kN
Reference speed	16 000 r/min
Limiting speed	7 600 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	Shield on both sides
Sealing type	Non-contact
Lubricant	Grease
Relubrication feature	Without

# Technical Specification

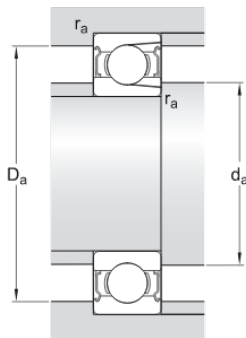


## Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
$d_1$	≈ 49.56 mm	Shoulder diameter
$D_2$	≈ 69.2 mm	Recess diameter
$r_{1,2}$	min. 1.5 mm	Chamfer dimension

## Abutment dimensions

$d_a$	min. 44 mm	Diameter of shaft abutment
$d_a$	max. 49.4 mm	Diameter of shaft abutment
$D_a$	max. 71 mm	Diameter of housing abutment
$r_a$	max. 1.5 mm	Radius of shaft or housing fillet



## Calculation data

Basic dynamic load rating	C	34.7 kN
Basic static load rating	$C_0$	26.5 kN
Fatigue load limit	$P_u$	1.12 kN
Reference speed		16 000 r/min
Limiting speed		7 600 r/min
Minimum load factor	$k_r$	0.05

## Mass

Mass bearing	0.48 kg
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## Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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