

# 6226-2Z



## Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields 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. 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
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

## Overview

### Dimensions

Bore diameter	130 mm
Outside diameter	230 mm
Width	40 mm

### Performance

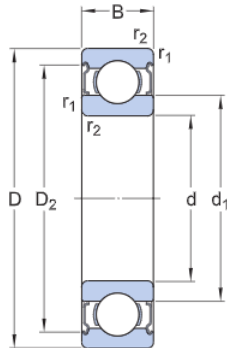
Basic dynamic load rating	156 kN
Basic static load rating	132 kN
Limiting speed	3 000 r/min
Reference speed	5 600 r/min

### Properties

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

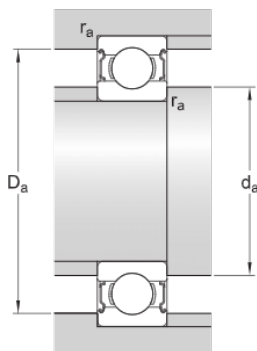
# Technical Specification

## Dimensions



d	130 mm	Bore diameter
D	230 mm	Outside diameter
B	40 mm	Width
d <sub>1</sub>	≈ 160.5 mm	Shoulder diameter
D <sub>2</sub>	≈ 202.9 mm	Recess diameter
r <sub>1,2</sub>	min. 3 mm	Chamfer dimension

## Abutment dimensions



d <sub>a</sub> min.	144 mm	Diameter of shaft abutment
d <sub>a</sub> max.	160 mm	Diameter of shaft abutment
D <sub>a</sub> max.	216 mm	Diameter of housing abutment
r <sub>a</sub> max.	2.5 mm	Radius of shaft or housing fillet

## Calculation data

Basic dynamic load rating	C	156 kN
Basic static load rating	C <sub>0</sub>	132 kN
Fatigue load limit	P <sub>u</sub>	4.15 kN
Reference speed		5 600 r/min
Limiting speed		3 000 r/min
Minimum load factor	k <sub>r</sub>	0.025
Calculation factor	f <sub>0</sub>	14.5

## Mass

Mass bearing	6.01 kg
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## Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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