

# 23122 CC/W33



## Spherical roller bearing with relubrication features

Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. The design includes features to facilitate relubrication. The bearings can be used in a modular system, including housings, sleeves and nuts.

- Accommodate misalignment
- High load carrying capacity
- Relubrication features
- Low friction and long service life
- Increased wear resistance

## Overview

### Dimensions

Bore diameter	110 mm
Outside diameter	180 mm
Width	56 mm

## Performance

Basic dynamic load rating	450 kN
Basic static load rating	585 kN
Reference speed	2 800 r/min
Limiting speed	3 600 r/min
SKF performance class	SKF Explorer

## Properties

Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Without
Lubricant	None
Relubrication feature	With
Candidate for remanufacturing	Yes mm

# Technical Specification

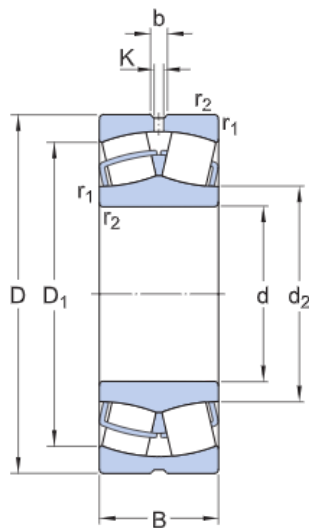
SKF performance class

SKF Explorer

Bore type

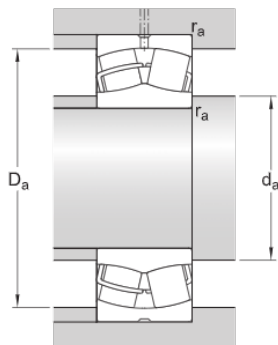
Cylindrical

## Dimensions



d	110 mm	Bore diameter
D	180 mm	Outside diameter
B	56 mm	Width
d <sub>2</sub>	≈ 126 mm	Shoulder diameter of inner ring
D <sub>1</sub>	≈ 157 mm	Shoulder/recess diameter of outer ring
b	8.3 mm	Width of lubrication groove
K	4.5 mm	Diameter of lubrication hole
r <sub>1,2</sub>	min. 2 mm	Chamfer dimension

## Abutment dimensions



d <sub>a</sub>	min. 121 mm	Diameter of shaft abutment
D <sub>a</sub>	max. 169 mm	Diameter of housing abutment
r <sub>a</sub>	max. 2 mm	Radius of fillet

## Calculation data

Basic dynamic load rating	C	450 kN
Basic static load rating	C <sub>0</sub>	585 kN

Fatigue load limit	$P_u$	60 kN
Reference speed		2 800 r/min
Limiting speed		3 600 r/min
Limiting value	$e$	0.3
Calculation factor	$Y_1$	2.3
Calculation factor	$Y_2$	3.4
Calculation factor	$Y_0$	2.2

## Mass

Mass	5.55 kg
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## Tolerance class

Dimensional tolerances	Normal
Radial run-out	P5

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