



# 23936 CC/W33 Spherical roller bearing with relubrication features

## 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	180 mm
Outside diameter	250 mm
Width	52 mm

### Performance

Basic dynamic load rating	519 kN
Basic static load rating	830 kN
Reference speed	2 600 r/min
Limiting speed	2 800 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	Normal
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Without
Lubricant	None
Relubrication feature	With
Candidate for remanufacturing	Yes

# Technical Specification

SKF performance class	SKF Explorer
Bore type	Cylindrical

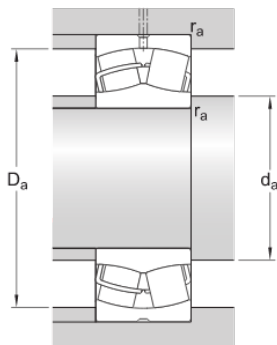


## Dimensions

d	180 mm	Bore diameter
D	250 mm	Outside diameter
B	52 mm	Width
$d_2$	$\approx 199$ mm	Shoulder diameter of inner ring
$D_1$	$\approx 231$ mm	Shoulder/recess diameter of outer ring
b	6 mm	Width of lubrication groove
K	3 mm	Diameter of lubrication hole
$r_{1,2}$	min. 2 mm	Chamfer dimension

## Abutment dimensions

$d_a$	min. 189 mm	Diameter of shaft abutment
$D_a$	max. 241 mm	Diameter of housing abutment
$r_a$	max. 2 mm	Radius of fillet



## Calculation data

Basic dynamic load rating	C	519 kN
Basic static load rating	$C_0$	830 kN

Fatigue load limit	$P_u$	76.5 kN
Reference speed		2 600 r/min
Limiting speed		2 800 r/min
Limiting value	$e$	0.18
Calculation factor	$Y_1$	3.8
Calculation factor	$Y_2$	5.6
Calculation factor	$Y_0$	3.6

## Mass

Mass		7.8 kg
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## Tolerance class

Dimensional tolerances		Normal
Radial run-out		P5

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