



# 23948 CC/W33Spherical 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	240 mm
Outside diameter	320 mm
Width	60 mm

### Performance

Basic dynamic load rating	685 kN
Basic static load rating	1 160 kN
Reference speed	1 900 r/min
Limiting speed	2 000 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	240 mm	Bore diameter
D	320 mm	Outside diameter
B	60 mm	Width
$d_2$	≈ 261 mm	Shoulder diameter of inner ring
$D_1$	≈ 298 mm	Shoulder/recess diameter of outer ring
b	8.3 mm	Width of lubrication groove
K	4.5 mm	Diameter of lubrication hole
$r_{1,2}$	min. 2.1 mm	Chamfer dimension

## Abutment dimensions

$d_a$	min. 251 mm	Diameter of shaft abutment
$D_a$	max. 309 mm	Diameter of housing abutment
$r_a$	max. 2 mm	Radius of fillet



## Calculation data

Basic dynamic load rating	C	685 kN
Basic static load rating	$C_0$	1 160 kN

Fatigue load limit	$P_u$	98 kN
Reference speed		1 900 r/min
Limiting speed		2 000 r/min
Limiting value	$e$	0.15
Calculation factor	$Y_1$	4.5
Calculation factor	$Y_2$	6.7
Calculation factor	$Y_0$	4.5

## Mass

Mass		13 kg
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## Tolerance class

Dimensional tolerances		Normal
Radial run-out		P5

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