

# 23064 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	320 mm
Outside diameter	480 mm
Width	121 mm

#### Performance

Basic dynamic load rating	2 348 kN
Basic static load rating	3 800 kN
Limiting speed	1 400 r/min
Reference speed	1 100 r/min

### Properties

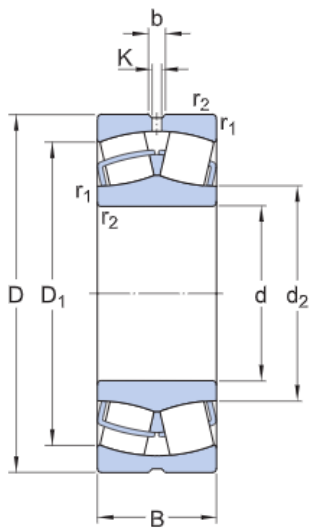
Bore type	Cylindrical
Cage	Sheet metal
Locating feature, bearing outer ring	Without
Lubricant	None
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
SKF performance class	SKF Explorer
Sealing	Without

# Technical Specification

## Design

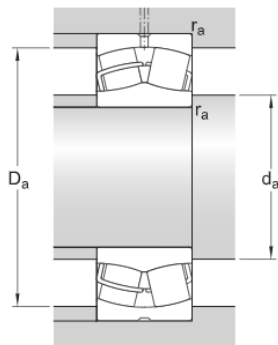
Bore type

Cylindrical



### Dimensions

d	320 mm	Bore diameter
D	480 mm	Outside diameter
B	121 mm	Width
d <sub>2</sub>	≈ 360 mm	Shoulder diameter of inner ring
D <sub>1</sub>	≈ 434 mm	Shoulder/recess diameter of outer ring
b	16.7 mm	Width of lubrication groove
K	9 mm	Diameter of lubrication hole
r <sub>1,2</sub>	min. 4 mm	Chamfer dimension



### Abutment dimensions

d <sub>a</sub>	min. 335 mm	Diameter of shaft abutment
D <sub>a</sub>	max. 465 mm	Diameter of housing abutment
r <sub>a</sub>	max. 3 mm	Radius of fillet

## Calculation data

Basic dynamic load rating	C	2 348 kN
Basic static load rating	C <sub>0</sub>	3 800 kN
Fatigue load limit	P <sub>u</sub>	285 kN

Reference speed		1 100 r/min
Limiting speed		1 400 r/min
Limiting value	e	0.23
Axial load factor	$Y_1$	2.9
Axial load factor	$Y_2$	4.4
Axial load factor	$Y_0$	2.8

## Mass

Mass		76.5 kg
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