

### 23960 CCK/W33



# Spherical roller bearing with tapered bore and 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	300 mm
Outside diameter	420 mm
Width	90 mm

#### Performance

Basic dynamic load rating	1 413 kN
Basic static load rating	2 500 kN
Reference speed	1 400 r/min
Limiting speed	1 600 r/min
SKF performance class	SKF Explorer

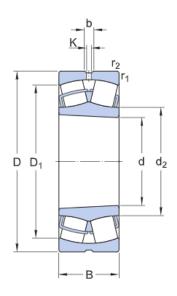
### Properties

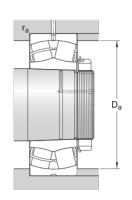
Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Tapered 1:12
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Without
Lubricant	None
Relubrication feature	With
Candidate for remanufacturing	Yes



## Technical Specification

SKF performance class	SKF Explorer
Bore type	Tapered 1:12





### Dimensions

d 300 mm	Bore diameter
D 420 mm	Outside diameter
B 90 mm	Width
d <sub>2</sub> ≈ 333 mm	Shoulder diameter of inner ring
D <sub>1</sub> ≈ 385 mm	Shoulder/recess diameter of outer ring
b 11.1 mm	Width of lubrication groove
K 6 mm	Diameter of lubrication hole
r <sub>1,2</sub> min. 3 mm	Chamfer dimension

### Abutment dimensions

D <sub>a</sub> max. 407 mm	Diameter of housing abutment
r <sub>a</sub> max. 2.5 mm	Radius of fillet

### Calculation data

Basic dynamic load rating	С	1 413 kN
Basic static load rating	$C_0$	2 500 kN



Fatigue load limit	$P_{u}$	200 kN
Reference speed		1 400 r/min
Limiting speed		1 600 r/min
Limiting value	е	0.19
Calculation factor	$Y_1$	3.6
Calculation factor	Y <sub>2</sub>	5.3
Calculation factor	Y <sub>0</sub>	3.6

### Mass

Mass	37.5 kg
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### Tolerance class

Dimensional tolerances	Normal
Radial run-out	P5



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