

23964 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	440 mm
Width	90 mm

Performance

Basic dynamic load rating	1 480 kN
Basic static load rating	2 700 kN
Limiting speed	1 500 r/min
Reference speed	1 400 r/min

Properties

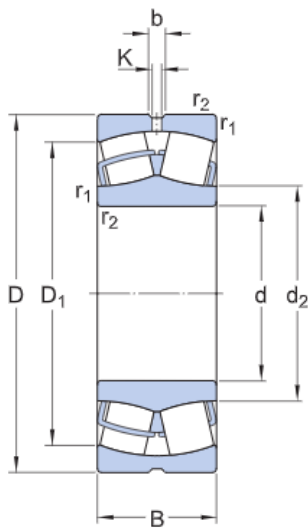
Bore type	Cylindrical
Cage	Sheet metal
Locating feature, bearing outer ring	Without
Lubricant	None
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
SKF performance class	SKF Explorer
Sealing	Without

Technical Specification

Design

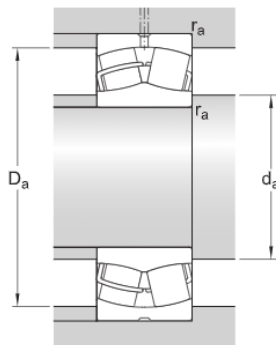
Bore type

Cylindrical



Dimensions

d	320 mm	Bore diameter
D	440 mm	Outside diameter
B	90 mm	Width
d ₂	≈ 354 mm	Shoulder diameter of inner ring
D ₁	≈ 406 mm	Shoulder/recess diameter of outer ring
b	11.1 mm	Width of lubrication groove
K	6 mm	Diameter of lubrication hole
r _{1,2}	min. 3 mm	Chamfer dimension



Abutment dimensions

d _a	min. 333 mm	Diameter of shaft abutment
D _a	max. 427 mm	Diameter of housing abutment
r _a	max. 2.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	1 480 kN
Basic static load rating	C ₀	2 700 kN
Fatigue load limit	P _u	216 kN

Reference speed		1 400 r/min
Limiting speed		1 500 r/min
Limiting value	e	0.17
Axial load factor	Y_1	4
Axial load factor	Y_2	5.9
Axial load factor	Y_0	4

Mass

Mass		41 kg
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