

23152 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	260 mm
Outside diameter	440 mm
Width	144 mm

Performance

Basic dynamic load rating	2 664 kN
Basic static load rating	3 900 kN
Limiting speed	1 400 r/min
Reference speed	1 100 r/min

Properties

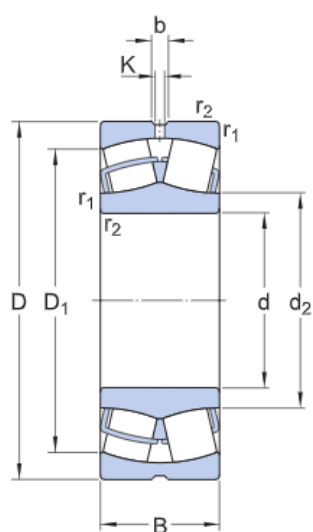
Bore type	Cylindrical
Cage	Sheet metal
Locating feature, bearing outer ring	Without
Lubricant	None
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
SKF performance class	SKF Explorer
Sealing	Without

Technical Specification

Design

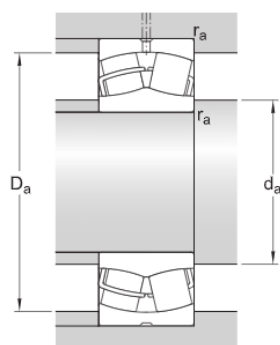
Bore type

Cylindrical



Dimensions

d	260 mm	Bore diameter
D	440 mm	Outside diameter
B	144 mm	Width
d ₂	≈ 301 mm	Shoulder diameter of inner ring
D ₁	≈ 380 mm	Shoulder/recess diameter of outer ring
b	16.7 mm	Width of lubrication groove
K	9 mm	Diameter of lubrication hole
r _{1,2}	min. 4 mm	Chamfer dimension



Abutment dimensions

d _a	min. 277 mm	Diameter of shaft abutment
D _a	max. 423 mm	Diameter of housing abutment
r _a	max. 3 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	2 664 kN
Basic static load rating	C ₀	3 900 kN
Fatigue load limit	P _u	290 kN

Reference speed		1 100 r/min
Limiting speed		1 400 r/min
Limiting value	e	0.31
Axial load factor	Y_1	2.2
Axial load factor	Y_2	3.3
Axial load factor	Y_0	2.2

Mass

Mass		89.5 kg
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