

23984 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	420 mm
Outside diameter	560 mm
Width	106 mm

Performance

Basic dynamic load rating	2 083 kN
Basic static load rating	4 150 kN
Reference speed	1 000 r/min
Limiting speed	1 100 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 for dimensions	Normal
Tolerance class for run-out	Normal
Sealing	Without
Lubricant	None
Relubrication feature	With
Candidate for remanufacturing	Yes mm

Technical Specification

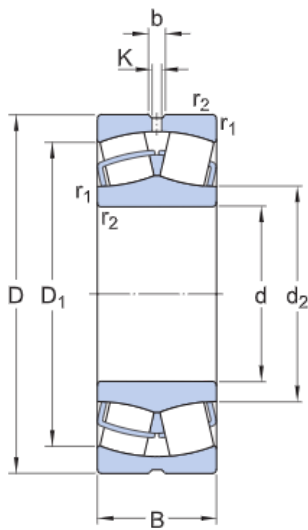
SKF performance class

SKF Explorer

Bore type

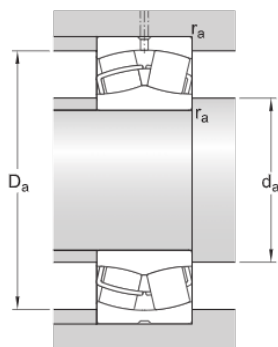
Cylindrical

Dimensions



d	420 mm	Bore diameter
D	560 mm	Outside diameter
B	106 mm	Width
d ₂	≈ 459 mm	Shoulder diameter of inner ring
D ₁	≈ 520 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. 435 mm	Diameter of shaft abutment
D _a	max. 545 mm	Diameter of housing abutment
r _a	max. 3 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	2 083 kN
Basic static load rating	C ₀	4 150 kN

Fatigue load limit	P_u	305 kN
Reference speed		1 000 r/min
Limiting speed		1 100 r/min
Limiting value	e	0.16
Calculation factor	Y_1	4.2
Calculation factor	Y_2	6.3
Calculation factor	Y_0	4

Mass

Mass		77 kg
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Tolerance class

Dimensional tolerances		Normal
Radial run-out		Normal

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