

24056 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	280 mm
Outside diameter	420 mm
Width	140 mm

Performance

Basic dynamic load rating	2 248 kN
Basic static load rating	3 800 kN
Reference speed	950 r/min
Limiting speed	1 400 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	P5
Sealing	Without
Lubricant	None
Relubrication feature	With
Candidate for remanufacturing	Yes mm

Technical Specification

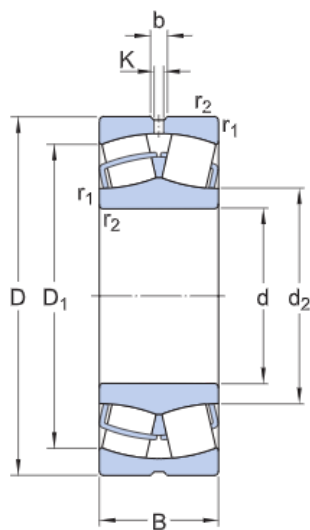
SKF performance class

SKF Explorer

Bore type

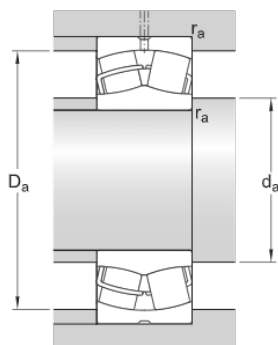
Cylindrical

Dimensions



d	280 mm	Bore diameter
D	420 mm	Outside diameter
B	140 mm	Width
d ₂	≈ 309 mm	Shoulder diameter of inner ring
D ₁	≈ 368 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. 4 mm	Chamfer dimension

Abutment dimensions



d _a	min. 295 mm	Diameter of shaft abutment
D _a	max. 405 mm	Diameter of housing abutment
r _a	max. 3 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	2 248 kN
Basic static load rating	C ₀	3 800 kN

Fatigue load limit	P_u	285 kN
Reference speed		950 r/min
Limiting speed		1 400 r/min
Limiting value	e	0.31
Calculation factor	Y_1	2.2
Calculation factor	Y_2	3.3
Calculation factor	Y_0	2.2

Mass

Mass		68 kg
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Tolerance class

Dimensional tolerances		Normal
Radial run-out		P5

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