



Image may differ from product. See technical specification for details.

24040 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	200 mm
Outside diameter	310 mm
Width	109 mm

Performance

Basic dynamic load rating	1 353 kN
Basic static load rating	2 120 kN
Reference speed	1 300 r/min
Limiting speed	1 900 r/min
SKF performance class	SKF Explorer

Properties

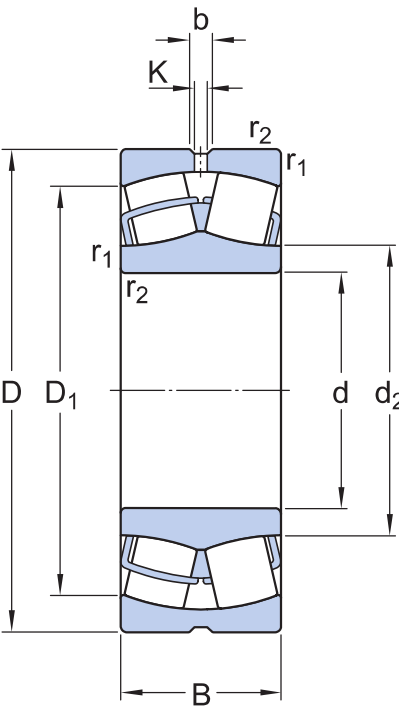
Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Without
Lubricant	None
Relubrication feature	With
Candidate for remanufacturing	Yes

Logistics

Product net weight	30 kg
eClass code	23-05-09-11
UNSPSC code	31171510

Technical specification

Bore type	Cylindrical
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Dimensions

d	200 mm	Bore diameter
D	310 mm	Outside diameter
B	109 mm	Width
d ₂	≈ 223 mm	Shoulder diameter of inner ring
D ₁	≈ 268 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. 2.1 mm	Chamfer dimension



Abutment dimensions

d _a	min. 211 mm	Diameter of shaft abutment
D _a	max. 299 mm	Diameter of housing abutment
r _a	max. 2 mm	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	1 353 kN
Basic static load rating	C ₀	2 120 kN
Fatigue load limit	P _u	186 kN
Reference speed		1 300 r/min
Limiting speed		1 900 r/min
Limiting value	e	0.33
Calculation factor	Y ₁	2
Calculation factor	Y ₂	3
Calculation factor	Y ₀	2

Tolerance class

Dimensional tolerances	Normal
Radial run-out	P5

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5, tapered bore 1:12, tapered bore 1:30
- Radial internal clearance: cylindrical bore, tapered bore

BEARING INTERFACES

- [Seat tolerances for standard conditions](#)
- [Tolerances and resultant fit](#)

More Information

 Product details Designs and variants General bearing specifications Loads Temperature limits Permissible speed Design considerations Mounting Designation system	 Engineering information Principles of rolling bearing selection General bearing knowledge Bearing selection process Bearing failure and how to prevent it	 Tools SimPro Quick SKF Product select - Select and evaluate bearing SKF Product select - Combine housing with bearing LubeSelect for SKF greases Drive-up Method Program Heater selection tool Oil Injection Method Program Tool and Accessory Selector for sleeves and shafts
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