

24038 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	190 mm
Outside diameter	290 mm
Width	100 mm

Performance

Basic dynamic load rating	1 164 kN
Basic static load rating	1 800 kN
Reference speed	1 400 r/min
Limiting speed	2 000 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

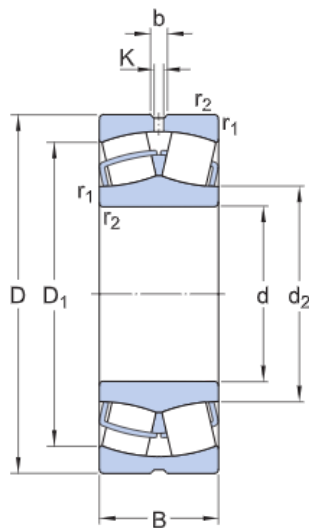
SKF performance class

SKF Explorer

Bore type

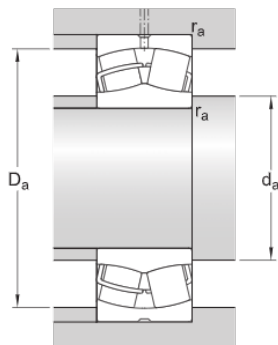
Cylindrical

Dimensions



d	190 mm	Bore diameter
D	290 mm	Outside diameter
B	100 mm	Width
d ₂	≈ 210 mm	Shoulder diameter of inner ring
D ₁	≈ 253 mm	Shoulder/recess diameter of outer ring
b	8.3 mm	Width of lubrication groove
K	4.5 mm	Diameter of lubrication hole
r _{1,2}	min. 2.1 mm	Chamfer dimension

Abutment dimensions



d _a	min. 201 mm	Diameter of shaft abutment
D _a	max. 279 mm	Diameter of housing abutment
r _a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	1 164 kN
Basic static load rating	C ₀	1 800 kN

Fatigue load limit	P_u	163 kN
Reference speed		1 400 r/min
Limiting speed		2 000 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		23.5 kg
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Tolerance class

Dimensional tolerances		Normal
Radial run-out		P5

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