

24136 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	180 mm
Outside diameter	300 mm
Width	118 mm

Performance

Basic dynamic load rating	1 449 kN
Basic static load rating	2 160 kN
Reference speed	1 100 r/min
Limiting speed	1 600 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

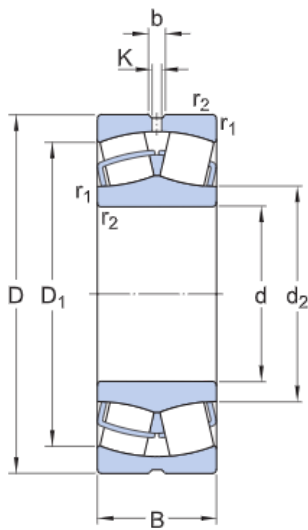
SKF performance class

SKF Explorer

Bore type

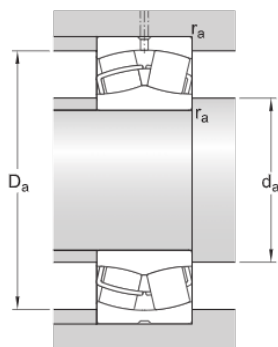
Cylindrical

Dimensions



d	180 mm	Bore diameter
D	300 mm	Outside diameter
B	118 mm	Width
d_2	≈ 203 mm	Shoulder diameter of inner ring
D_1	≈ 253 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. 3 mm	Chamfer dimension

Abutment dimensions



d_a	min. 194 mm	Diameter of shaft abutment
D_a	max. 286 mm	Diameter of housing abutment
r_a	max. 2.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	1 449 kN
Basic static load rating	C_0	2 160 kN

Fatigue load limit	P_u	196 kN
Reference speed		1 100 r/min
Limiting speed		1 600 r/min
Limiting value	e	0.37
Calculation factor	Y_1	1.8
Calculation factor	Y_2	2.7
Calculation factor	Y_0	1.8

Mass

Mass		33.5 kg
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Tolerance class

Dimensional tolerances		Normal
Radial run-out		P5

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