

Overview

22205/20 E



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

Dimensions

Bore diameter	20 mm
Outside diameter	52 mm
Width	18 mm

Performance

Basic dynamic load rating	49.9 kN
Basic static load rating	44 kN
Reference speed	13 000 r/min
Limiting speed	17 000 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



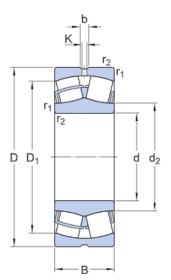
SKF Explorer

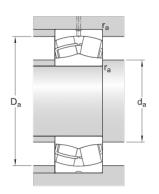
Cylindrical

Technical Specification

SKF performance class

Bore type





Calculation data

Basic dynamic load rating	С	49.9 kN
Basic static load rating	C _O	44 kN

Dimensions

d	20 mm	Bore diameter
D	52 mm	Outside diameter
В	18 mm	Width
d ₂	≈ 31.3 mm	Shoulder diameter of inner ring
D_1	≈ 44.2 mm	Shoulder/recess diameter of outer ring
b	3.7 mm	Width of lubrication groove
Κ	2 mm	Diameter of lubrication hole
r _{1,2}	min.1 mm	Chamfer dimension

Abutment dimensions

d _a min. 25.6 mm	Diameter of shaft abutment
D _a max. 46.4 mm	Diameter of housing abutment
r _a max.1 mm	Radius of fillet



Fatigue load limit	P _u	4.75 kN
Reference speed		13 000 r/min
Limiting speed		17 000 r/min
Limiting value	е	0.35
Calculation factor	Y ₁	1.9
Calculation factor	Y ₂	2.9
Calculation factor	Y ₀	1.8

Mass

Tolerance class

Dimensional tolerances	Normal
Radial run-out	P5



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