

Overview

21311 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	55 mm
Outside diameter	120 mm
Width	29 mm

Performance

Basic dynamic load rating	159 kN
Basic static load rating	166 kN
Reference speed	5 600 r/min
Limiting speed	7 500 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





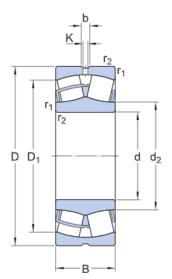
SKF Explorer

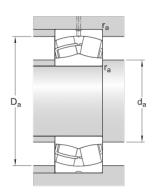
Cylindrical

Technical Specification

SKF performance class

Bore type





Calculation data

Basic dynamic load rating	С	159 kN
Basic static load rating	CO	166 kN

Dimensions

d	55 mm	Bore diameter
D	120 mm	Outside diameter
В	29 mm	Width
d ₂	≈ 72.7 mm	Shoulder diameter of inner ring
D_1	≈ 96.2 mm	Shoulder/recess diameter of outer ring
b	6 mm	Width of lubrication groove
Κ	3 mm	Diameter of lubrication hole
r _{1,2}	min. 2 mm	Chamfer dimension

Abutment dimensions

^d a min. 66 mm	Diameter of shaft abutment
D _a max. 109 mm	Diameter of housing abutment
r _a max. 2 mm	Radius of fillet

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Fatigue load limit	P _u	18.6 kN
Reference speed		5 600 r/min
Limiting speed		7 500 r/min
Limiting value	е	0.24
Calculation factor	Υ ₁	2.8
Calculation factor	Y ₂	4.2
Calculation factor	Y ₀	2.8

Mass

Mass		1.7 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	P5



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