

23220-2RS/VT143



Spherical roller bearing with integral sealing and 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. Under normal operating conditions, sealed bearings are almost maintenance-free, keeping service costs and grease consumption low. The design includes features to facilitate relubrication.

- Accommodate misalignment
- High load carrying capacity
- Sealed for increased reliability, with relubrication features
- Low friction and long service life
- Increased wear resistance

Overview

Dimensions

Bore diameter	100 mm
Outside diameter	180 mm
Width	60.3 mm

Performance

Basic dynamic load rating	499 kN
Basic static load rating	600 kN
Limiting speed	1 700 r/min
SKF performance class	SKF Explorer

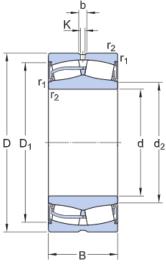
Properties

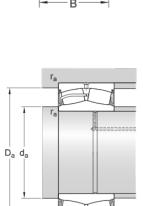
Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	With



Technical Specification

SKF performance class	SKF Explorer
Bore type	Cylindrical





Dimensions

d :	100 mm	Bore diameter
D :	180 mm	Outside diameter
В	60.3 mm	Width
d ₂ ≈	: 114 mm	Shoulder diameter of inner ring
D ₁ ≈	:159 mm	Shoulder/recess diameter of outer ring
b 8	8.3 mm	Width of lubrication groove
K	4.5 mm	Diameter of lubrication hole
r _{1,2} n	nin. 2.1 mm	Chamfer dimension

Abutment dimensions

d _a min. 112 mm	Diameter of shaft abutment
d _a max. 114 mm	Diameter of shaft abutment
D _a max. 168 mm	Diameter of housing abutment
r _a max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	С	499 kN
Basic static load rating	C_0	600 kN



Fatigue load limit	P_{u}	63 kN
Limiting speed		1 700 r/min
Limiting value	е	0.3
Calculation factor	Y ₁	2.3
Calculation factor	Y ₂	3.4
Calculation factor	Y ₀	2.2

Mass

Mass 6.85 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	P5



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