23040-2CS5/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	200 mm
Outside diameter	310 mm
Width	82 mm

Performance

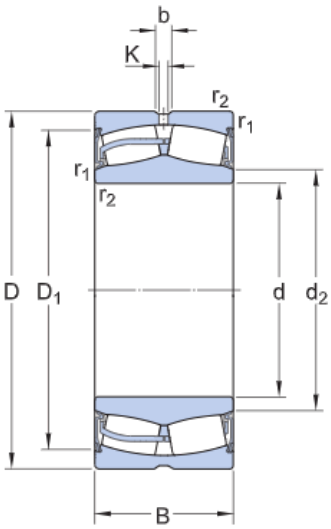
Basic dynamic load rating	1 059 kN
Basic static load rating	1 530 kN
Limiting speed	480 r/min
SKF performance class	SKF Explorer

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
Candidate for remanufacturing	Yes

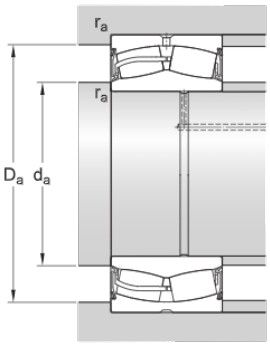
Technical Specification

SKF performance class	SKF Explorer
Bore type	Cylindrical



Dimensions

d	200 mm	Bore diameter
D	310 mm	Outside diameter
B	82 mm	Width
d_2	≈ 223 mm	Shoulder diameter of inner ring
D_1	≈ 286 mm	Shoulder/recess diameter of outer ring
b	13.9 mm	Width of lubrication groove
K	7.5 mm	Diameter of lubrication hole
$r_{1,2}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 211 mm	Diameter of shaft abutment
d_a	max. 223 mm	Diameter of shaft abutment
D_a	max. 299 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	1 059 kN
Basic static load rating	C_0	1 530 kN

Fatigue load limit	P_u	137 kN
Limiting speed		480 r/min
Limiting value	e	0.22
Calculation factor	Y_1	3
Calculation factor	Y_2	4.6
Calculation factor	Y_0	2.8

Mass

Mass	22 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	P5

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