BS2-2209-2RS/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	45 mm
Outside diameter	85 mm
Width	28 mm

Performance

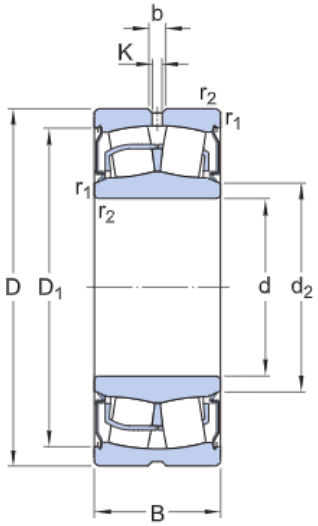
Basic dynamic load rating	104 kN
Basic static load rating	100 kN
Limiting speed	3 600 r/min
SKF performance class	SKF Explorer

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	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	With

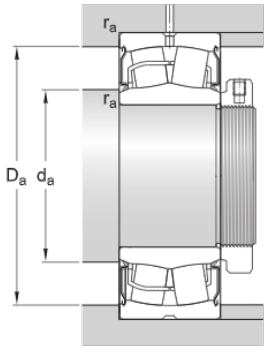
Technical Specification

SKF performance class	SKF Explorer
Bore type	Cylindrical



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	28 mm	Width
d_2	≈ 52.5 mm	Shoulder diameter of inner ring
D_1	≈ 77.8 mm	Shoulder/recess diameter of outer ring
b	6 mm	Width of lubrication groove
K	3 mm	Diameter of lubrication hole
$r_{1,2}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 52 mm	Diameter of shaft abutment
d_a	max. 52.5 mm	Diameter of shaft abutment
D_a	max. 78 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	104 kN
Basic static load rating	C_0	100 kN

Fatigue load limit	P_u	10.8 kN
Limiting speed		3 600 r/min
Limiting value	e	0.26
Calculation factor	Y_1	2.6
Calculation factor	Y_2	3.9
Calculation factor	Y_0	2.5

Mass

Mass	0.66 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	P5

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