

6209-2RS1



Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	45 mm	Basic dynamic load rating	35.1 kN
Outside diameter	85 mm	Basic static load rating	21.6 kN
Width	19 mm	Limiting speed	5 000 r/min
		SKF performance class	SKF Explorer

Properties

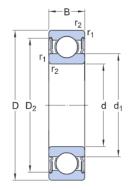
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact



Technical Specification

SKF performance class

SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
В	19 mm	Width
d_1	≈ 57.6 mm	Shoulder diameter
D ₂	≈ 75.19 mm	Recess diameter
r _{1,2}	min. 1.1 mm	Chamfer dimension

Abutment dimensions

d _a min. 52 mm	Diameter of shaft abutment
d _a max. 57.5 mm	Diameter of shaft abutment
D _a max. 78 mm	Diameter of housing abutment
r _a max. 1 mm	Radius of shaft or housing fillet

Calculation data

Da

d,

Basic dynamic load rating	С	35.1 kN
Basic static load rating	C ₀	21.6 kN
Fatigue load limit	P _u	0.915 kN
Limiting speed		5 000 r/min



P6

Minimum load factor	k _r	0.025
Calculation factor	f ₀	14.2
Mass		
Mass bearing		0.43 kg
-		
Tolerance class		
Dimensional tolerances		P6

Radial run-out



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