

6209

Deep groove ball bearing

Single row deep groove ball bearings 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.

- Simple, versatile and robust design
- Low friction
- High-speed capability

45 mm

85 mm

19 mm

- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Width

Bore diameter

Outside diameter

Performance

Basic dynamic load rating	35.1 kN
Basic static load rating	21.6 kN
Limiting speed	11 000 r/min
Reference speed	17 000 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	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

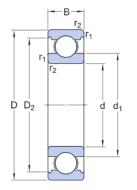




Technical Specification

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. 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
Reference speed		17 000 r/min



Limiting speed		11 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	14.2
Mass		
Mass bearing		0.42 kg
Tolerance class		
Dimensional tolerances		P6
Radial run-out		P6



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