

Overview

6307

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

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	21 mm

Performance

Basic dynamic load rating	35.1 kN
Basic static load rating	19 kN
Reference speed	19 000 r/min
Limiting speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

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

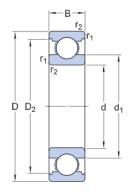




Technical Specification

SKF performance class

SKF Explorer



Dimensions

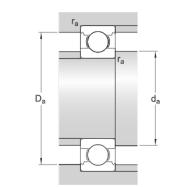
d	35 mm	Bore diameter
D	80 mm	Outside diameter
В	21 mm	Width
d_1	≈ 49.56 mm	Shoulder diameter
D ₂	≈ 69.2 mm	Recess diameter
r _{1,2}	min. 1.5 mm	Chamfer dimension

Abutment dimensions

d _a min. 44 mm	Diameter of shaft abutment
D _a max. 71 mm	Diameter of housing abutment
^r a max. 1.5 mm	Radius of shaft or housing fillet



Basic dynamic load rating	С	35.1 kN
Basic static load rating	C _O	19 kN
Fatigue load limit	P _u	0.815 kN
Reference speed		19 000 r/min





Limiting speed		12 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	13.1

Mass

Mass bearing	0.46 kg
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Tolerance class

Dimensional tolerances	P6
Radial run-out	P6



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