

609

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

Overview

Dimensions

Bore diameter	9 mm
Outside diameter	24 mm
Width	7 mm

KF

Performance

Basic dynamic load rating	3.9 kN
Basic static load rating	1.66 kN
Reference speed	70 000 r/min
Limiting speed	43 000 r/min
SKF performance class	SKF Explorer

Properties

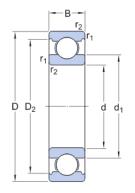
Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without



Technical Specification

SKF performance class

SKF Explorer

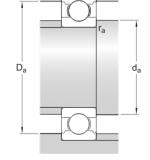


Dimensions

d	9 mm	Bore diameter
D	24 mm	Outside diameter
В	7 mm	Width
d_1	≈14.45 mm	Shoulder diameter
D ₂	≈ 21.2 mm	Recess diameter
r _{1,2}	min. 0.3 mm	Chamfer dimension

Abutment dimensions

^d a min. 11 mm	Diameter of shaft abutment
D _a max. 22 mm	Diameter of housing abutment
^r a max. 0.3 mm	Radius of shaft or housing fillet



Calculation data

Basic dynamic load rating	С	3.9 kN
Basic static load rating	C _O	1.66 kN
Fatigue load limit	P _u	0.071 kN
Reference speed		70 000 r/min



Limiting speed		43 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	13
Mass		
Mass bearing		0.014 kg
Tolerance class		

Dimensional tolerances	P6
Radial run-out	P5



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