



16009

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	45 mm
Outside diameter	75 mm
Width	10 mm

Performance

Basic dynamic load rating	16.5 kN
Basic static load rating	10.8 kN
Limiting speed	12 000 r/min
Reference speed	20 000 r/min
SKF performance class	SKF Explorer

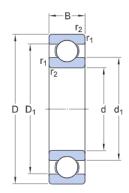
Properties

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



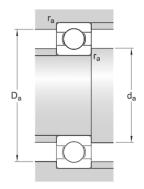
Technical Specification

SKF performance class	SKF Explorer
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Dimensions

d	45 mm	Bore diameter
D	75 mm	Outside diameter
В	10 mm	Width
d_1	≈ 55 mm	Shoulder diameter
D_1	≈ 65 mm	Shoulder diameter
r _{1,2}	min. 0.6 mm	Chamfer dimension



Abutment dimensions

d _a min. 48.2 mm	Diameter of shaft abutment
D _a max. 71.8 mm	Diameter of housing abutment
r _a max. 0.6 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	16.5 kN
Basic static load rating	C_0	10.8 kN
Fatigue load limit	$P_{\rm u}$	0.52 kN
Reference speed		20 000 r/min



Limiting speed		12 000 r/min
Minimum load factor	k_r	0.02
Calculation factor	f_0	14.2

Mass

Mass bearing	0.17 kg
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Tolerance class

Dimensional tolerances	P6
Radial run-out	P6



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