

6004-2Z



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

Bore diameter	20 mm
Outside diameter	42 mm
Width	12 mm

Performance

Basic dynamic load rating	9.95 kN
Basic static load rating	5 kN
Reference speed	38 000 r/min
Limiting speed	19 000 r/min
SKF performance class	SKF Explorer

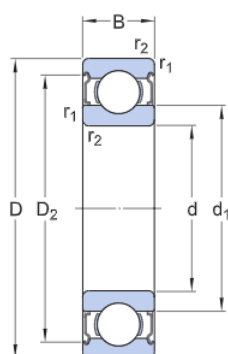
Properties

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	Shield on both sides
Sealing type	Non-contact
Lubricant	Grease
Relubrication feature	Without

Technical Specification

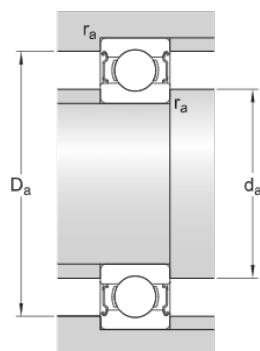
SKF performance class

SKF Explorer



Dimensions

d	20 mm	Bore diameter
D	42 mm	Outside diameter
B	12 mm	Width
d ₁	≈ 27.2 mm	Shoulder diameter
D ₂	≈ 37.19 mm	Recess diameter
r _{1,2}	min. 0.6 mm	Chamfer dimension



Abutment dimensions

d _a min.	23.2 mm	Diameter of shaft abutment
d _a max.	27.1 mm	Diameter of shaft abutment
D _a max.	38.8 mm	Diameter of housing abutment
r _a max.	0.6 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	9.95 kN
Basic static load rating	C ₀	5 kN
Fatigue load limit	P _u	0.212 kN
Reference speed		38 000 r/min

Limiting speed		19 000 r/min
Minimum load factor	k_r	0.025
Calculation factor	f_0	14

Mass

Mass bearing		0.071 kg
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Tolerance class

Dimensional tolerances		P6
Radial run-out		P5

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