

6005-2Z

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	0.984 in
Outside diameter	1.85 in
Width	0.472 in

Performance

Basic dynamic load rating	2 675 lbf
Basic static load rating	1 472 lbf
Limiting speed	16 000 r/min
Reference speed	32 000 r/min
SKF performance class	SKF Explorer

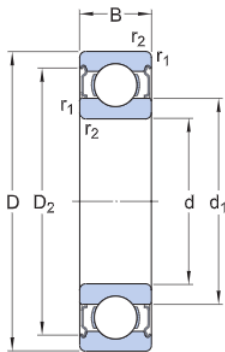
Properties

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

Technical Specification

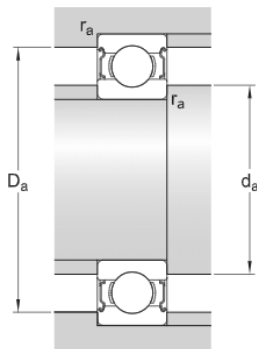
SKF performance class

SKF Explorer



Dimensions

d	0.984 in	Bore diameter
D	1.85 in	Outside diameter
B	0.472 in	Width
d_1	≈ 1.26 in	Shoulder diameter
D_2	≈ 1.661 in	Recess diameter
$r_{1,2}$	min. 0.024 in	Chamfer dimension



Abutment dimensions

d_a min.	1.11 in	Diameter of shaft abutment
d_a max.	1.256 in	Diameter of shaft abutment
D_a max.	1.724 in	Diameter of housing abutment
r_a max.	0.024 in	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	2 675 lbf
Basic static load rating	C_0	1 472 lbf
Fatigue load limit	P_u	62 lbf
Reference speed		32 000 r/min

Limiting speed		16 000 r/min
Minimum load factor	k_r	0.025
Calculation factor	f_0	14

Mass

Mass bearing		0.182 lb
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Tolerance class

Dimensional tolerances		P6
Radial run-out		P5

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