

6211-2RS1

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	55 mm
Outside diameter	100 mm
Width	21 mm

Performance

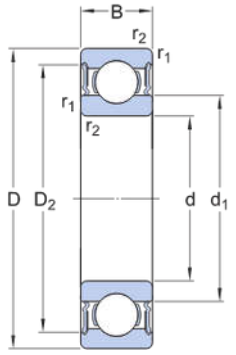
Basic dynamic load rating	46.2 kN
Basic static load rating	29 kN
Limiting speed	4 300 r/min
SKF performance class	SKF Explorer

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	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	Without

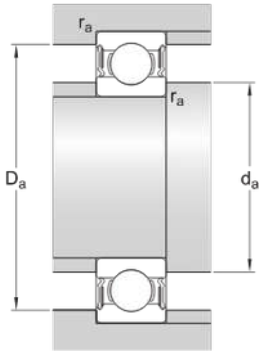
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	100 mm	Outside diameter
B	21 mm	Width
d_1	≈ 69.06 mm	Shoulder diameter
D_2	≈ 89.4 mm	Recess diameter
$r_{1,2}$	min. 1.5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 64 mm	Diameter of shaft abutment
d_a	max. 69 mm	Diameter of shaft abutment
D_a	max. 91 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	46.2 kN
Basic static load rating	C_0	29 kN
Fatigue load limit	P_u	1.25 kN
Limiting speed		4 300 r/min

Minimum load factor	k_r	0.025
Calculation factor	f_0	14.3

Mass

Mass bearing	0.64 kg

Tolerance class

Dimensional tolerances	P6
Radial run-out	P6

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