

## 6011-2RS1



### 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	90 mm
Width	18 mm

### Performance

Basic dynamic load rating	29.6 kN
Basic static load rating	21.2 kN
Limiting speed	4 500 r/min
SKF performance class	SKF Explorer

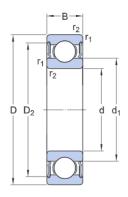
### **Properties**

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



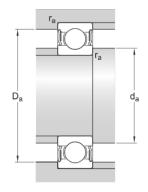
# Technical Specification

SKF performance class SKF	Explorer
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## Dimensions

d	55 mm	Bore diameter
D	90 mm	Outside diameter
В	18 mm	Width
$d_1$	≈ 66.3 mm	Shoulder diameter
$D_2$	≈ 81.5 mm	Recess diameter
r <sub>1,2</sub>	min. 1.1 mm	Chamfer dimension



## Abutment dimensions

d <sub>a</sub> min. 61 mm	Diameter of shaft abutment
d <sub>a</sub> max. 66.2 mm	Diameter of shaft abutment
D <sub>a max. 84 mm</sub>	Diameter of housing abutment
r <sub>a</sub> max. 1 mm	Radius of shaft or housing fillet

## Calculation data

Basic dynamic load rating	С	29.6 kN
Basic static load rating	$C_0$	21.2 kN
Fatigue load limit	$P_{u}$	0.9 kN
Limiting speed		4 500 r/min



Minimum load factor	k <sub>r</sub>	0.025
Calculation factor	$f_0$	15.4

## Mass

## Tolerance class

Dimensional tolerances	P6
Radial run-out	P6



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