



Image may differ from product. See technical specification for details.

6309-2RS1

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	45 mm
Outside diameter	100 mm
Width	25 mm

Performance

Basic dynamic load rating	55.3 kN
Basic static load rating	31.5 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
Tolerance class	Class P6 (P6)
Material, bearing	Bearing steel
Coating	Without
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	Without

Logistics

Product net weight	0.841 kg	
eClass code	23-05-08-01	
UNSPSC code	31171504	

Technical specification

Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
В	25 mm	Width
d_1	≈ 62.18 mm	Shoulder diameter
D_2	≈ 86.7 mm	Recess diameter
r _{1,2}	min. 1.5 mm	Chamfer dimension

Abutment dimensions

d_{a}	min. 54 mm	Diameter of shaft abutment
d _a	max. 62.1 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

SKF performance class	·	SKF Explorer
Basic dynamic load rating	С	55.3 kN
Basic static load rating	C ₀	31.5 kN
Fatigue load limit	P _u	1.34 kN
Limiting speed		4 500 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	13

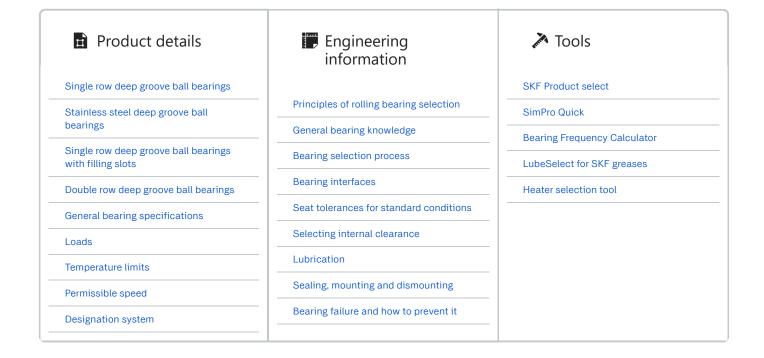
Tolerance class

Dimensional tolerances P6

P6

Radial run-out

More Information





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