



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

6219-2RS1

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	95 mm
Outside diameter	170 mm
Width	32 mm

Performance

Basic dynamic load rating	114 kN
Basic static load rating	81.5 kN
Limiting speed	2 400 r/min
SKF performance class	SKF Explorer

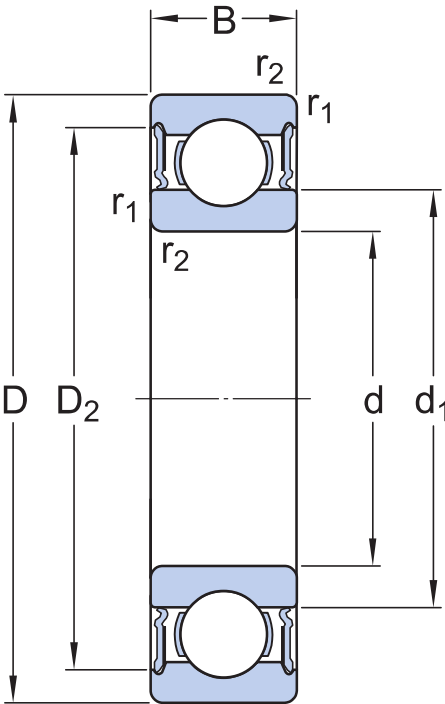
Properties

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

Logistics

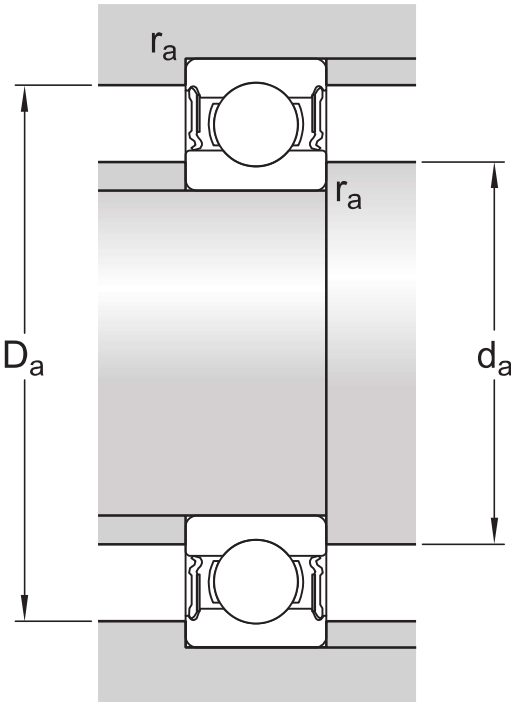
Product net weight	2.65 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	95 mm	Bore diameter
t _{Δdmp}	-0.015 – 0 mm	Deviation limits of mid-range bore diameter
D	170 mm	Outside diameter
t _{ΔDmp}	-0.018 – 0 mm	Deviation limits of mid-range outside diameter
B	32 mm	Width
t _{ΔBs}	-0.1 – 0 mm	Deviation limits of ring width
d ₁	≈ 118.25 mm	Shoulder diameter
D ₂	≈ 151.3 mm	Recess diameter
r _{1,2}	min. 2.1 mm	Chamfer dimension
	P6 and tighter width tolerance	ISO tolerance class for dimensions



Abutment dimensions

d_a	min. 107 mm	Diameter of shaft abutment
d_a	max. 118 mm	Diameter of shaft abutment
D_a	max. 158 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of shaft or housing fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	114 kN
Basic static load rating	C_0	81.5 kN
Fatigue load limit	P_u	3 kN
Limiting speed		2 400 r/min
Minimum load factor	k_r	0.025
Calculation factor	f_0	14.4

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t_{Kia}	25 μ m
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Range of section height at outer ring of assembled bearing	t_{Kea}	45 μ m
ISO tolerance class for geometrical tolerances		Normal

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (metric), P6, P5, Normal (inch)
- Radial internal clearance: Classes C2 to C5

BEARING INTERFACES

- [Seat tolerances for standard conditions](#)
- [Tolerances and resultant fits](#)

More Information

 Product details Single row deep groove ball bearings Stainless steel deep groove ball bearings Single row deep groove ball bearings with filling slots Double row deep groove ball bearings General bearing specifications Loads Temperature limits Permissible speed Designation system	 Engineering information Principles of rolling bearing selection General bearing knowledge Bearing selection process Bearing interfaces Seat tolerances for standard conditions Selecting internal clearance Lubrication Sealing, mounting and dismounting Bearing failure and how to prevent it	 Tools SKF Product select SimPro Quick Bearing Frequency Calculator LubeSelect for SKF greases Heater selection tool
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