



Image may differ from product. See specification for details.

W 6304-2RS1

Stainless steel deep groove ball bearing with integral sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they 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 other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	52 mm
Width	15 mm

Performance

Basic dynamic load rating	13.8 kN
Basic static load rating	7.8 kN
Limiting speed	9 500 r/min

Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Stamped stainless steel
Matched arrangement	No
Radial internal clearance	CN
Material, bearing	Stainless steel
Coating	Without
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	Without
Indicative carbon footprint for new product	0.504 kg CO ₂ e

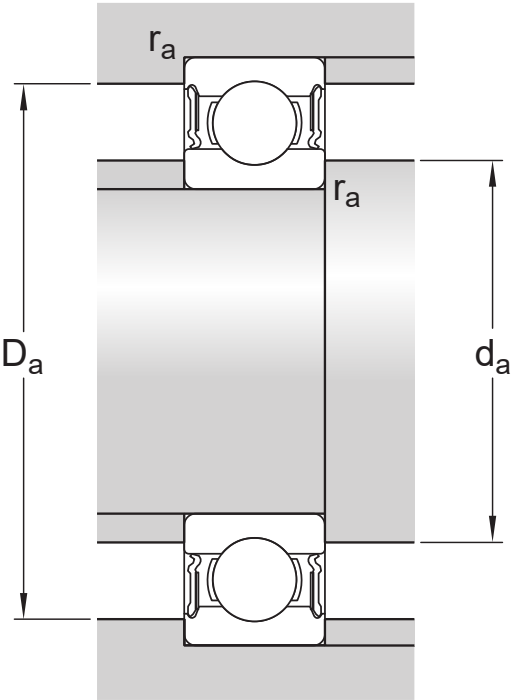
Logistics

Product net weight	0.14 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification

Dimensions

d	20 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
d ₁	≈ 30 mm	Shoulder diameter
d ₂	≈ 30 mm	Recess diameter
D ₂	≈ 45.4 mm	Recess diameter
r _{1,2}	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d _a	min. 26.5 mm	Diameter of shaft abutment
d _a	max. 29.5 mm	Diameter of shaft abutment
D _a	max. 46 mm	Diameter of housing abutment
r _a	max. 1 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	13.8 kN
Basic static load rating	C ₀	7.8 kN
Fatigue load limit	P _u	0.335 kN
Limiting speed		9 500 r/min
Minimum load factor	k _r	0.035
Calculation factor	f ₀	12.3

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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