



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

61812-2RZ

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	60 mm
Outside diameter	78 mm
Width	10 mm

Performance

Basic dynamic load rating	11.4 kN
Basic static load rating	8.8 kN
Reference speed	17 000 r/min
Limiting speed	8 500 r/min

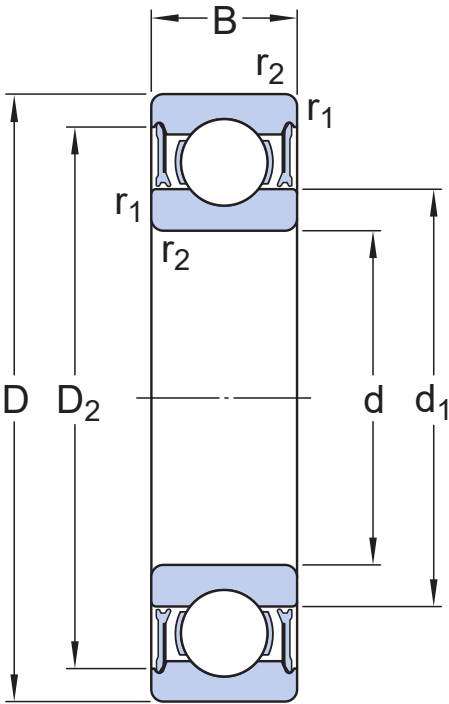
Properties

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	Non-contact
Lubricant	Grease
Relubrication feature	Without

Logistics

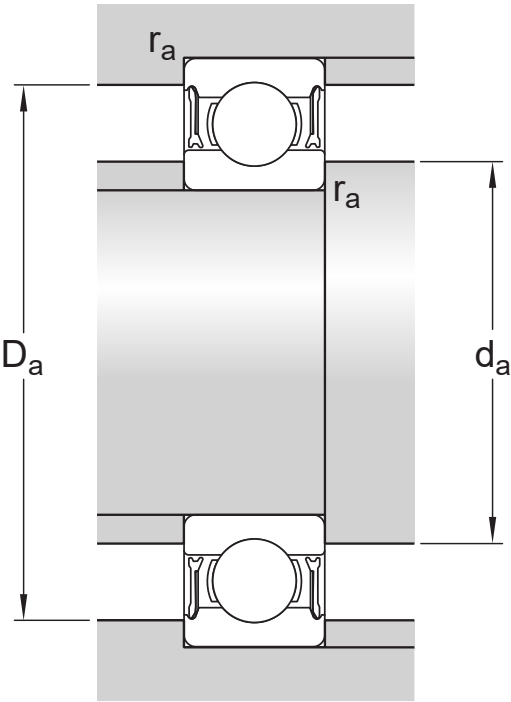
Product net weight	0.103 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	60 mm	Bore diameter
D	78 mm	Outside diameter
B	10 mm	Width
d ₁	≈ 65.7 mm	Shoulder diameter
D ₂	≈ 74.1 mm	Recess diameter
r _{1,2}	min. 0 mm	Chamfer dimension



Abutment dimensions

d _a	min. 62 mm	Diameter of shaft abutment
d _a	max. 65.5 mm	Diameter of shaft abutment
D _a	max. 76 mm	Diameter of housing abutment
r _a	max. 0.3 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	11.4 kN
Basic static load rating	C ₀	8.8 kN
Fatigue load limit	P _u	0.465 kN
Reference speed		17 000 r/min
Limiting speed		8 500 r/min
Minimum load factor	k _r	0.015
Calculation factor	f ₀	13.7

Tolerance class

Dimensional tolerances	Normal
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Radial run-out	Normal
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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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