



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

6001-2Z

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	12 mm
Outside diameter	28 mm
Width	8 mm

Performance

Basic dynamic load rating	5.4 kN
Basic static load rating	2.36 kN
Reference speed	60 000 r/min
Limiting speed	30 000 r/min
SKF performance class	SKF Explorer

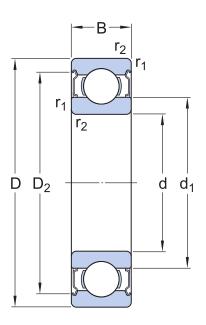
Properties

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	Shield on both sides
Sealing type	Non-contact
Lubricant	Grease
Relubrication feature	Without

Logistics

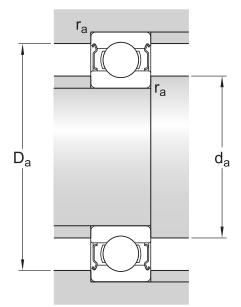
Product net weight	0.0217 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	12 mm	Bore diameter
D	28 mm	Outside diameter
В	8 mm	Width
d1	≈ 17 mm	Shoulder diameter
D ₂	≈ 24.72 mm	Recess diameter
ľ1,2	min. 0.3 mm	Chamfer dimension



Abutment dimensions

d _a	min. 14 mm	Diameter of shaft abutment
d _a	max. 16.9 mm	Diameter of shaft abutment
D _a	max. 26 mm	Diameter of housing abutment
r _a	max. 0.3 mm	Radius of shaft or housing fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	С	5.4 kN
Basic static load rating	C ₀	2.36 kN
Fatigue load limit	Pu	0.1 kN
Reference speed		60 000 r/min
Limiting speed		30 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	13

Mass

Mass bearing

0.022 kg

Tolerance class

Dimensional tolerances	P6
Radial run-out	P5

More Information

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



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