



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

6003-2Z

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	17 mm
Outside diameter	35 mm
Width	10 mm

Performance

Basic dynamic load rating	6.37 kN
Basic static load rating	3.25 kN
Reference speed	45 000 r/min
Limiting speed	22 000 r/min
SKF performance class	SKF Explorer

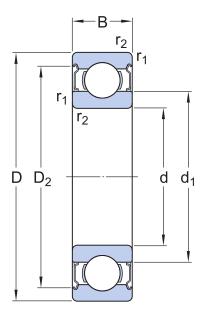
Properties

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

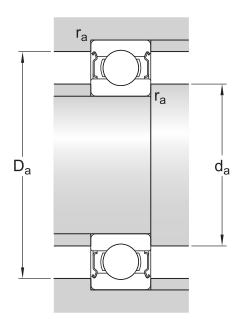
Product net weight	0.0411 kg	
eClass code	23-05-08-01	
UNSPSC code	31171504	

Technical specification



Dimensions

d	17 mm	Bore diameter
D	35 mm	Outside diameter
В	10 mm	Width
d_1	≈ 23 mm	Shoulder diameter
D ₂	≈ 31.2 mm	Recess diameter
r _{1,2}	min. 0.3 mm	Chamfer dimension



Abutment dimensions

d _a	min. 19 mm	Diameter of shaft abutment
d _a	max. 22.9 mm	Diameter of shaft abutment
D _a	max. 33 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	6.37 kN
Basic static load rating	C_0	3.25 kN
Fatigue load limit	P_{u}	0.137 kN
Reference speed		45 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f_0	14

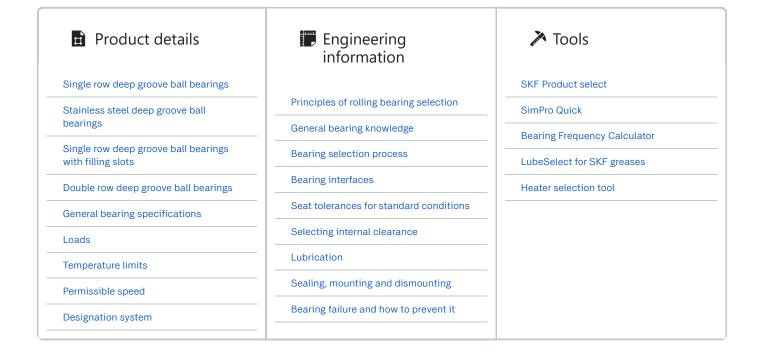
Mass

Mass bearing 0.041 kg

Tolerance class

Dimensional tolerances	P6
Radial run-out	P5

More Information





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