



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

6005-2Z

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	25 mm
Outside diameter	47 mm
Width	12 mm

Performance

Basic dynamic load rating	11.9 kN
Basic static load rating	6.55 kN
Reference speed	32 000 r/min
Limiting speed	16 000 r/min
SKF performance class	SKF Explorer

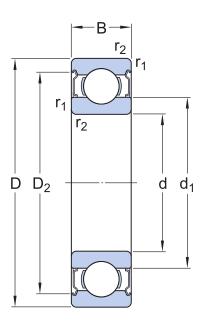
Properties

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

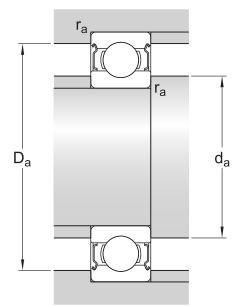
Product net weight	0.08 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	25 mm	Bore diameter
D	47 mm	Outside diameter
В	12 mm	Width
d1	≈ 32 mm	Shoulder diameter
D2	≈ 42.2 mm	Recess diameter
ľ1,2	min. 0.6 mm	Chamfer dimension



Abutment dimensions

d _a	min. 28.2 mm	Diameter of shaft abutment
d _a	max. 31.9 mm	Diameter of shaft abutment
D _a	max. 43.8 mm	Diameter of housing abutment
r _a	max. 0.6 mm	Radius of shaft or housing fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	С	11.9 kN
Basic static load rating	C ₀	6.55 kN
Fatigue load limit	Pu	0.275 kN
Reference speed		32 000 r/min
Limiting speed		16 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	14

Mass

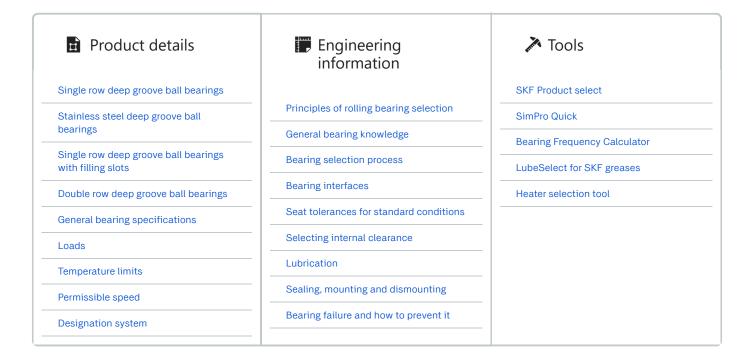
Mass bearing

0.083 kg

Tolerance class

Dimensional tolerances	P6
Radial run-out	P5

More Information





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