

Overview

6010-2Z



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

Dimensions

Bore diameter	50 mm
Outside diameter	80 mm
Width	16 mm

Performance

Basic dynamic load rating	22.9 kN
Basic static load rating	15.6 kN
Reference speed	18 000 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

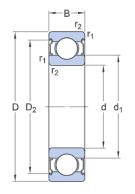
Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Shield on both sides
Sealing type	Non-contact
Lubricant	Grease
Relubrication feature	Without



Technical Specification

SKF performance class

SKF Explorer



Dimensions

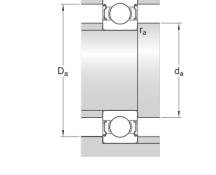
d	50 mm	Bore diameter
D	80 mm	Outside diameter
В	16 mm	Width
d_1	≈ 59.75 mm	Shoulder diameter
D ₂	≈ 72.8 mm	Recess diameter
r _{1,2}	min. 1 mm	Chamfer dimension

Abutment dimensions

d _a min. 54.6 mm	Diameter of shaft abutment
d _a max. 59.7 mm	Diameter of shaft abutment
D _a max. 75.4 mm	Diameter of housing abutment
r _a max. 1 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	22.9 kN
Basic static load rating	C _O	15.6 kN
Fatigue load limit	P _u	0.71 kN
Reference speed		18 000 r/min





P6

Limiting speed		9 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	14.7
Mass		
Mass bearing		0.27 kg
Tolerance class		
Dimensional tolerances		P6

Radial run-out



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