



61916

Deep groove ball bearing

Single row deep groove ball bearings 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.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Bore diameter	80 mm
Outside diameter	110 mm
Width	16 mm

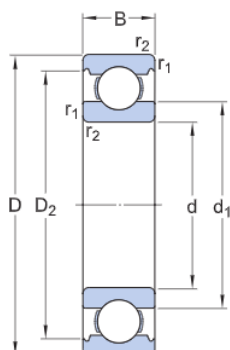
Performance

Basic dynamic load rating	25.1 kN
Basic static load rating	20.4 kN
Limiting speed	7 500 r/min
Reference speed	12 000 r/min

Properties

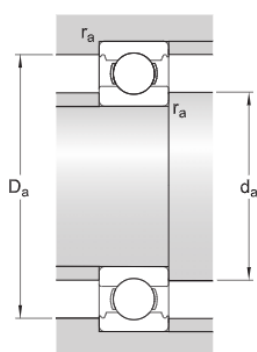
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	80 mm	Bore diameter
D	110 mm	Outside diameter
B	16 mm	Width
d ₁	≈ 89.8 mm	Shoulder diameter
D ₂	≈ 102.2 mm	Recess diameter
r _{1,2}	min. 1 mm	Chamfer dimension



Abutment dimensions

d _a	min. 84.6 mm	Diameter of shaft abutment
D _a	max. 105 mm	Diameter of housing abutment
r _a	max. 1 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	25.1 kN
Basic static load rating	C ₀	20.4 kN
Fatigue load limit	P _u	1.02 kN
Reference speed		12 000 r/min
Limiting speed		7 500 r/min
Minimum load factor	k _r	0.02
Calculation factor	f ₀	14

Mass

Mass bearing	0.38 kg
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Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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