

61944 MA

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	220 mm
Outside diameter	300 mm
Width	38 mm

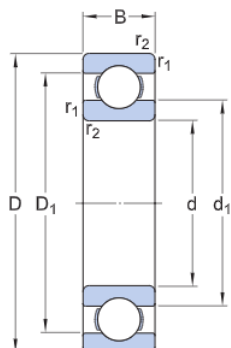
Performance

Basic dynamic load rating	151 kN
Basic static load rating	180 kN
Limiting speed	3 600 r/min
Reference speed	4 300 r/min

Properties

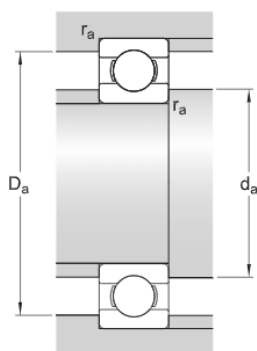
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	220 mm	Bore diameter
D	300 mm	Outside diameter
B	38 mm	Width
d ₁	≈ 245.7 mm	Shoulder diameter
D ₁	≈ 275.2 mm	Shoulder diameter
r _{1,2}	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d _a	min. 230 mm	Diameter of shaft abutment
D _a	max. 290 mm	Diameter of housing abutment
r _a	max. 2 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	151 kN
Basic static load rating	C ₀	180 kN
Fatigue load limit	P _u	4.75 kN
Reference speed		4 300 r/min
Limiting speed		3 600 r/min
Minimum load factor	k _r	0.02
Calculation factor	f ₀	16.6

Mass

Mass bearing	7.93 kg
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Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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