

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	3.15 in
Outside diameter	4.331 in
Width	0.63 in

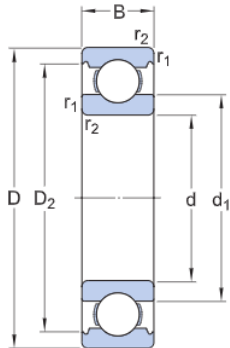
Performance

Basic dynamic load rating	5 643 lbf
Basic static load rating	4 586 lbf
Limiting speed	7 500 r/min
Reference speed	12 000 r/min

Properties

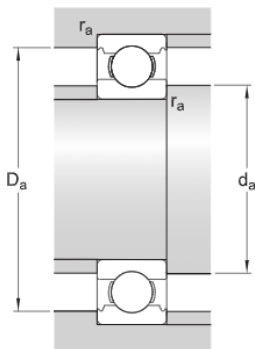
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	3.15 in	Bore diameter
D	4.331 in	Outside diameter
B	0.63 in	Width
d ₁	≈ 3.535 in	Shoulder diameter
D ₂	≈ 4.0236 in	Recess diameter
r _{1,2}	min. 0.039 in	Chamfer dimension



Abutment dimensions

d _a	min. 3.331 in	Diameter of shaft abutment
D _a	max. 4.134 in	Diameter of housing abutment
r _a	max. 0.039 in	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	5 643 lbf
Basic static load rating	C ₀	4 586 lbf
Fatigue load limit	P _u	229 lbf
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	0.847 lb
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Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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