

61856

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	11.024 in
Outside diameter	13.78 in
Width	1.299 in

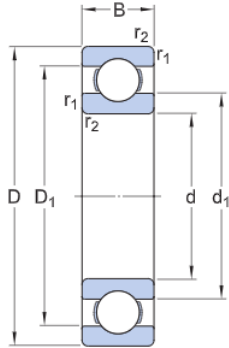
Performance

Basic dynamic load rating	31 024 lbf
Basic static load rating	44 962 lbf
Limiting speed	2 200 r/min
Reference speed	3 400 r/min

Properties

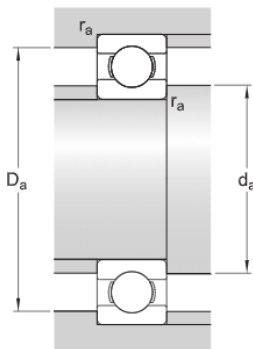
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	11.024 in	Bore diameter
D	13.78 in	Outside diameter
B	1.299 in	Width
d ₁	≈ 11.89 in	Shoulder diameter
D ₁	≈ 12.874 in	Shoulder diameter
r _{1,2}	min. 0.079 in	Chamfer dimension



Abutment dimensions

d _a	min. 11.378 in	Diameter of shaft abutment
D _a	max. 13.425 in	Diameter of housing abutment
r _a	max. 0.079 in	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	31 024 lbf
Basic static load rating	C ₀	44 962 lbf
Fatigue load limit	P _u	1 068 lbf
Reference speed		3 400 r/min
Limiting speed		2 200 r/min
Minimum load factor	k _r	0.015
Calculation factor	f ₀	17.3

Mass

Mass bearing	14.083 lb
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Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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