



6415

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	2.953 in
Outside diameter	7.48 in
Width	1.772 in

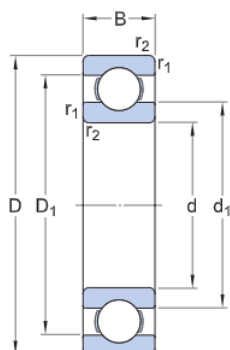
Performance

Basic dynamic load rating	34 396 lbf
Basic static load rating	25 628 lbf
Limiting speed	5 000 r/min
Reference speed	8 000 r/min

Properties

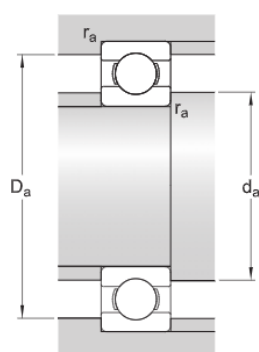
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	2.953 in	Bore diameter
D	7.48 in	Outside diameter
B	1.772 in	Width
d ₁	≈ 4.331 in	Shoulder diameter
D ₁	≈ 6.077 in	Shoulder diameter
r _{1,2}	min. 0.118 in	Chamfer dimension



Abutment dimensions

d _a	min. 3.583 in	Diameter of shaft abutment
D _a	max. 6.85 in	Diameter of housing abutment
r _a	max. 0.098 in	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	34 396 lbf
Basic static load rating	C ₀	25 628 lbf
Fatigue load limit	P _u	933 lbf
Reference speed		8 000 r/min
Limiting speed		5 000 r/min
Minimum load factor	k _r	0.035
Calculation factor	f ₀	12.2

Mass

Mass bearing	12.818 lb
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Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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