

6226



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	5.118 in
Outside diameter	9.055 in
Width	1.575 in

Performance

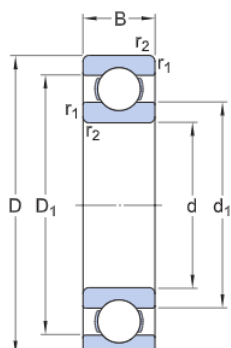
Basic dynamic load rating	35 070 lbf
Basic static load rating	29 675 lbf
Limiting speed	3 600 r/min
Reference speed	5 600 r/min

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

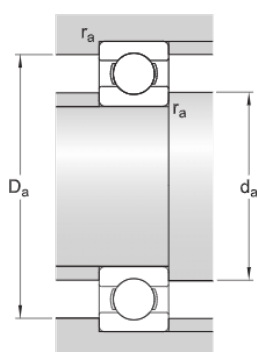
Technical Specification

Dimensions



d	5.118 in	Bore diameter
D	9.055 in	Outside diameter
B	1.575 in	Width
d ₁	≈ 6.319 in	Shoulder diameter
D ₁	≈ 7.776 in	Shoulder diameter
r _{1,2}	min. 0.118 in	Chamfer dimension

Abutment dimensions



d _a min.	5.669 in	Diameter of shaft abutment
D _a max.	8.504 in	Diameter of housing abutment
r _a max.	0.098 in	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	35 070 lbf
Basic static load rating	C ₀	29 675 lbf
Fatigue load limit	P _u	933 lbf
Reference speed		5 600 r/min
Limiting speed		3 600 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	14.5

Mass

Mass bearing	12.914 lb
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Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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