

61830 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	5.906 in
Outside diameter	7.48 in
Width	0.787 in

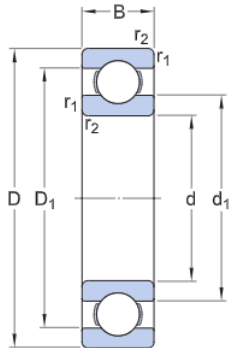
Performance

Basic dynamic load rating	10 971 lbf
Basic static load rating	13 713 lbf
Limiting speed	4 300 r/min
Reference speed	6 700 r/min

Properties

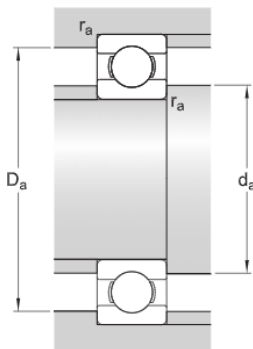
Bore type	Cylindrical
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	5.906 in	Bore diameter
D	7.48 in	Outside diameter
B	0.787 in	Width
d ₁	≈ 6.402 in	Shoulder diameter
D ₁	≈ 6.992 in	Shoulder diameter
r _{1,2}	min. 0.043 in	Chamfer dimension



Abutment dimensions

d _a	min. 6.142 in	Diameter of shaft abutment
D _a	max. 7.244 in	Diameter of housing abutment
r _a	max. 0.039 in	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	10 971 lbf
Basic static load rating	C ₀	13 713 lbf
Fatigue load limit	P _u	441 lbf
Reference speed		6 700 r/min
Limiting speed		4 300 r/min
Minimum load factor	k _r	0.015
Calculation factor	f ₀	17.1

Mass

Mass bearing	2.976 lb
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Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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