

16048 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	9.449 in
Outside diameter	14.173 in
Width	1.457 in

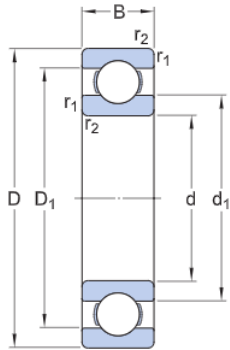
Performance

Basic dynamic load rating	45 636 lbf
Basic static load rating	57 326 lbf
Limiting speed	3 000 r/min
Reference speed	3 600 r/min

Properties

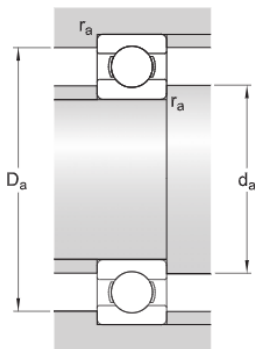
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	9.449 in	Bore diameter
D	14.173 in	Outside diameter
B	1.457 in	Width
d ₁	≈ 11.012 in	Shoulder diameter
D ₁	≈ 12.609 in	Shoulder diameter
r _{1,2}	min. 0.083 in	Chamfer dimension



Abutment dimensions

d _a	min. 9.843 in	Diameter of shaft abutment
D _a	max. 13.78 in	Diameter of housing abutment
r _a	max. 0.079 in	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	45 636 lbf
Basic static load rating	C ₀	57 326 lbf
Fatigue load limit	P _u	1 416 lbf
Reference speed		3 600 r/min
Limiting speed		3 000 r/min
Minimum load factor	k _r	0.02
Calculation factor	f ₀	16.5

Mass

Mass bearing	30.834 lb
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Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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