W 618/3

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they 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.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Bore diameter	0.118 in
Outside diameter	0.276 in
Width	0.079 in

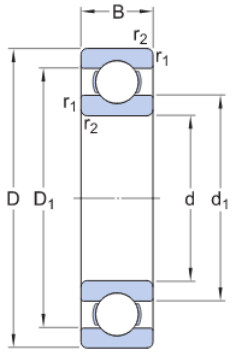
Performance

Basic dynamic load rating	40 lbf
Basic static load rating	13 lbf
Limiting speed	100 000 r/min
Reference speed	160 000 r/min

Properties

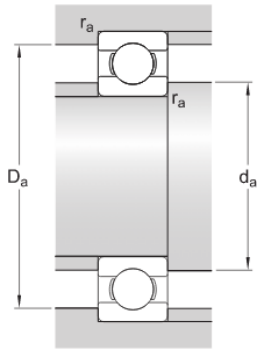
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	0.118 in	Bore diameter
D	0.276 in	Outside diameter
B	0.079 in	Width
d_1	≈ 0.169 in	Shoulder diameter
D_1	≈ 0.226 in	Shoulder diameter
$r_{1,2}$	min. 0.004 in	Chamfer dimension



Abutment dimensions

d_a	min. 0.15 in	Diameter of shaft abutment
D_a	max. 0.244 in	Diameter of housing abutment
r_a	max. 0.004 in	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	40 lbf
Basic static load rating	C_0	13 lbf
Fatigue load limit	P_u	0.45 lbf
Reference speed		160 000 r/min
Limiting speed		100 000 r/min
Minimum load factor	k_r	0.02
Calculation factor	f_0	7.1

Mass

Mass bearing	0.001 lb

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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