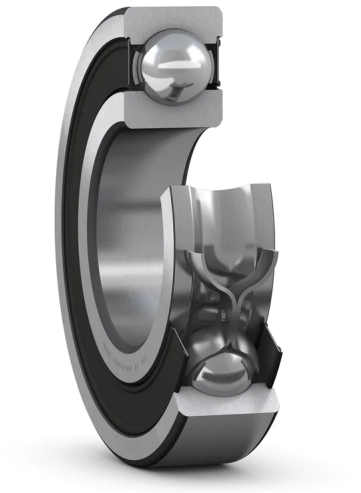


RLS 5-2RS1

Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields 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. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- 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	0.625 in
Outside diameter	1.563 in
Width	0.437 in

Performance

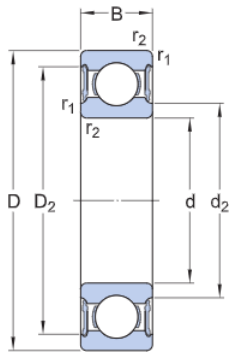
Basic dynamic load rating	2 149 lbf
Basic static load rating	1 068 lbf
Limiting speed	12 000 r/min

Properties

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

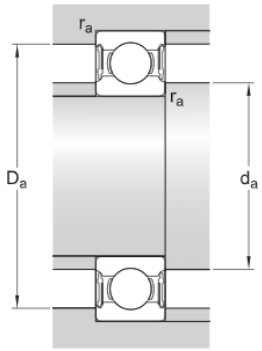
Technical Specification

Aftermarket only	Yes



Dimensions

d	0.625 in	Bore diameter
D	1.563 in	Outside diameter
B	0.437 in	Width
d_2	≈ 0.846 in	Recess diameter
D_2	≈ 1.377 in	Recess diameter
$r_{1,2}$	min. 0.031 in	Chamfer dimension



Abutment dimensions

d_a	min. 0.787 in	Diameter of shaft abutment
d_a	max. 0.957 in	Diameter of shaft abutment
D_a	max. 1.378 in	Diameter of housing abutment
r_a	max. 0.031 in	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	2 149 lbf
Basic static load rating	C_0	1 068 lbf
Fatigue load limit	P_u	45 lbf
Limiting speed		12 000 r/min

Minimum load factor	k_r	0.025
Calculation factor	f_0	13

Mass

Mass bearing	0.149 lb

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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