619/5-2ZDeep groove ball bearing with seals or shields

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	5 mm
Outside diameter	13 mm
Width	4 mm

Performance

Basic dynamic load rating	0.884 kN
Basic static load rating	0.335 kN
Reference speed	110 000 r/min
Limiting speed	50 000 r/min

Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Matched arrangement	No
Radial internal clearance	CN
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Shield on both sides
Sealing type	Non-contact

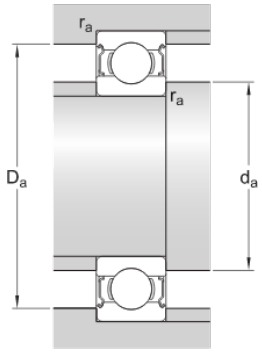
Lubricant	Grease
Relubrication feature	Without

Technical Specification

NOT FOUND

Dimensions

d	5 mm	Bore diameter
D	13 mm	Outside diameter
B	4 mm	Width
d_1	≈ 7.5 mm	Shoulder diameter
D_2	≈ 11.2 mm	Recess diameter
$r_{1,2}$	min. 0.2 mm	Chamfer dimension



Abutment dimensions

d_a	min. 6.4 mm	Diameter of shaft abutment
d_a	max. 7.5 mm	Diameter of shaft abutment
D_a	max. 11.6 mm	Diameter of housing abutment
r_a	max. 0.2 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	0.884 kN
Basic static load rating	C_0	0.335 kN
Fatigue load limit	P_u	0.014 kN
Reference speed		110 000 r/min
Limiting speed		50 000 r/min
Minimum load factor	k_r	0.02
Calculation factor	f_0	10.5

Mass

Mass bearing	0.0023 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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