

6408 N

Deep groove ball bearing with snap ring groove

Single row deep groove ball bearings with a snap ring groove 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. An annular groove in the outer ring enables the bearings to retain a snap ring.

- Can accommodate a snap ring
- 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	40 mm
Outside diameter	110 mm
Width	27 mm

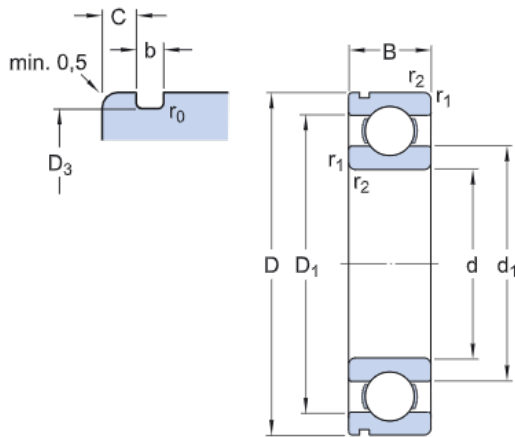
Performance

Basic dynamic load rating	63.7 kN
Basic static load rating	36.5 kN
Reference speed	14 000 r/min
Limiting speed	9 000 r/min

Properties

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

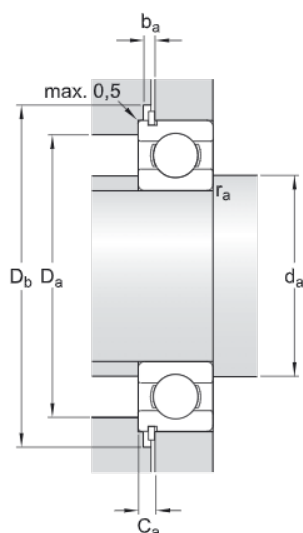
Technical Specification



Dimensions

d	40 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width
d_1	≈ 62.84 mm	Shoulder diameter
D_1	≈ 86.95 mm	Shoulder diameter
D_3	106.81 mm	Diameter of snap ring groove
b	2.7 mm	Width of snap ring groove
C	3.28 mm	Distance outer ring from side face to snap ring groove
r_0	max. 0.6 mm	Bottom radius of snap ring groove
$r_{1,2}$	min. 2 mm	Chamfer dimension

Abutment dimensions



d_a	min. 53 mm	Diameter of shaft abutment
D_e	max. 97 mm	Diameter of housing abutment
D_t	min. 118 mm	Diameter of snap ring recess in the housing
b_a	min. 3 mm	Width of snap ring recess in the housing
C_e	max. 5.74 mm	Distance from outer ring side face to snap ring back face
r_a	max. 2 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	63.7 kN
Basic static load rating	C_0	36.5 kN

Fatigue load limit	P_u	1.53 kN
Reference speed		14 000 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.035
Calculation factor	f_0	12

Mass

Mass bearing	1.26 kg
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Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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