6044 MDeep groove ball bearing

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	220 mm
Outside diameter	340 mm
Width	56 mm

Performance

Basic dynamic load rating	247 kN
Basic static load rating	290 kN
Reference speed	4 000 r/min
Limiting speed	3 200 r/min

Properties

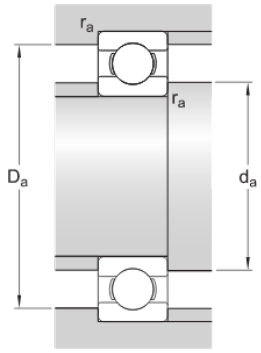
Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Matched arrangement	No
Radial internal clearance	CN
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

NOT FOUND

Dimensions

d	220 mm	Bore diameter
D	340 mm	Outside diameter
B	56 mm	Width
d_1	≈ 258.3 mm	Shoulder diameter
D_1	≈ 301.7 mm	Shoulder diameter
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 233 mm	Diameter of shaft abutment
D_a	max. 327 mm	Diameter of housing abutment
r_a	max. 2.5 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	247 kN
Basic static load rating	C_0	290 kN
Fatigue load limit	P_u	7.35 kN
Reference speed		4 000 r/min
Limiting speed		3 200 r/min
Minimum load factor	k_r	0.025
Calculation factor	f_0	15.6

Mass

Mass bearing	18.3 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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