

61848 Deep 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	240 mm
Outside diameter	300 mm
Width	28 mm

Performance

Basic dynamic load rating	108 kN
Basic static load rating	150 kN
Reference speed	4 000 r/min
Limiting speed	2 600 r/min

Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet 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



Dimensions

d	240 mm	Bore diameter
D	300 mm	Outside diameter
B	28 mm	Width
d ₁	≈ 259 mm	Shoulder diameter
D ₁	≈ 281 mm	Shoulder diameter
r _{1,2}	min. 2 mm	Chamfer dimension

Abutment dimensions

d _a	min. 249 mm	Diameter of shaft abutment
D _a	max. 291 mm	Diameter of housing abutment
r _a	max. 2 mm	Radius of shaft or housing fillet



Calculation data

Basic dynamic load rating	C	108 kN
Basic static load rating	C ₀	150 kN
Fatigue load limit	P _u	3.8 kN
Reference speed		4 000 r/min
Limiting speed		2 600 r/min
Minimum load factor	k _r	0.015
Calculation factor	f ₀	17.2

Mass

Mass bearing	3.88 kg
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Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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