

6038 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	190 mm
Outside diameter	290 mm
Width	46 mm

Performance

Basic dynamic load rating	195 kN
Basic static load rating	216 kN
Reference speed	4 800 r/min
Limiting speed	3 800 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



Dimensions

d	190 mm	Bore diameter
D	290 mm	Outside diameter
B	46 mm	Width
d ₁	≈ 222 mm	Shoulder diameter
D ₁	≈ 258 mm	Shoulder diameter
r _{1,2}	min. 2.1 mm	Chamfer dimension

Abutment dimensions

d _a	min. 200 mm	Diameter of shaft abutment
D _a	max. 280 mm	Diameter of housing abutment
r _a	max. 2 mm	Radius of shaft or housing fillet



Calculation data

Basic dynamic load rating	C	195 kN
Basic static load rating	C ₀	216 kN
Fatigue load limit	P _u	5.85 kN
Reference speed		4 800 r/min
Limiting speed		3 800 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	15.8

Mass

Mass bearing	10.8 kg
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Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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