



6212/VA201 Deep groove ball bearing for high temperature applications

Deep groove ball bearing for high temperature applications

Single row deep groove ball bearings for high temperature applications are designed for challenging operating conditions, with certain variants being capable of performing at temperatures as high as 350 °C (660 °F). They have increased radial internal clearances and use graphite-based lubricants that are optimized for operation at high temperatures. The entire surface of the bearings are manganese phosphate treated, which enhances adhesion of the lubricant to the metal and improves their running-in properties. As with deep groove ball bearings generally, they are particularly versatile, accommodate radial and axial loads in both directions, and are easy to mount.

- Optimized for operation at high temperatures – up to 350 °C (660 °F)
- Easily swapped with grease-lubricated bearings of corresponding ISO dimensions
- Increased reliability, reduced complexity and decreased environmental impact
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	60 mm
Outside diameter	110 mm
Width	22 mm

Performance

Basic static load rating	36 kN
Limiting speed	50 r/min
Maximum operating temperature	250 °C

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	Multiples of C5

Tolerance class	Normal
Material, bearing	High temperature steel
Coating	Coated
Sealing	Without
Lubricant	Solid lubricant
Relubrication feature	Without

Technical Specification

Running in required

Yes

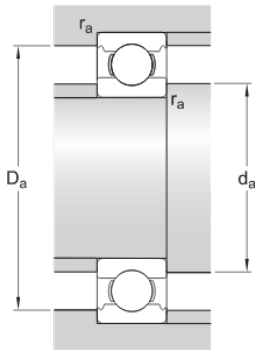


Dimensions

d	60 mm	Bore diameter
D	110 mm	Outside diameter
B	22 mm	Width
d_1	≈ 75.5 mm	Shoulder diameter inner ring
D_2	≈ 98 mm	Recess diameter outer ring shoulder
$r_{1,2}$	min. 1.5 mm	Chamfer dimension

Abutment dimensions

d_a	min. 69 mm	Abutment diameter shaft
D_a	max. 101 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius



Calculation data

Basic static load rating	C_0	36 kN
Limiting speed		50 r/min
Operating temperature	T	max. 250 °C

Mass

Mass bearing

0.78 kg

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