

6315/VA201

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	75 mm
Outside diameter	160 mm
Width	37 mm

Performance

Basic dynamic load rating	119 kN
Basic static load rating	76.5 kN
Limiting speed	0 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
Material, bearing	High temperature steel
Coating	Coated
Sealing	Without
Lubricant	Solid lubricant

Relubrication feature

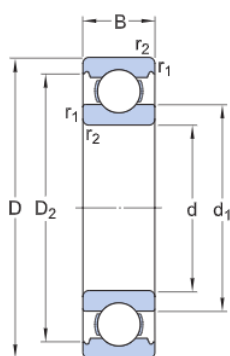
Without

Technical Specification

Running in required

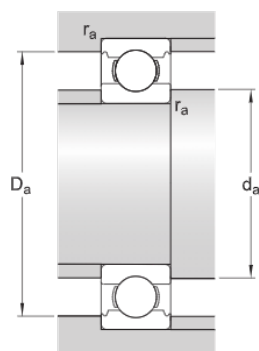
Yes

Dimensions



d	75 mm	Bore diameter
D	160 mm	Outside diameter
B	37 mm	Width
d ₁	≈ 101.4 mm	Shoulder diameter inner ring
D ₂	≈ 138.4 mm	Recess diameter outer ring shoulder
r _{1,2}	min. 2.1 mm	Chamfer dimension

Abutment dimensions



d _a	min. 87 mm	Abutment diameter shaft
d _a	max. 100.9 mm	Abutment diameter shaft
D _a	max. 148 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	119 kN
Basic static load rating	C ₀	76.5 kN
Limiting speed		0 r/min
Operating temperature	T	max. 250 °C

Mass

Mass bearing	3.05 kg
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