





Self-aligning ball bearing with seals on both sides

Self-aligning ball bearings, with seals on both sides, have two rows of balls, a common sphered raceway in the outer ring and two deep uninterrupted raceway grooves in the inner ring. They are insensitive to angular misalignment of the shaft relative to the housing. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Accommodate static and dynamic misalignment
- Excellent high-speed performance
- Excellent light load performance
- Low friction
- Integral sealing results in reduced maintenance requirements and prolonged bearing service life

Overview

Dimensions

Bore diameter	15 mm
Outside diameter	35 mm
Width	14 mm

Performance

Basic dynamic load rating	7.41 kN
Basic static load rating	1.76 kN
Reference speed	40 000 r/min
Limiting speed	14 000 r/min

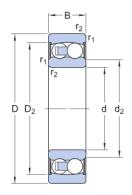
Properties

Retaining feature, inner ring	None
Locating feature, bearing outer ring	None
Number of rows	2
Bore type	Cylindrical
Cage	Non-metallic
Radial internal clearance	CN
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	Without



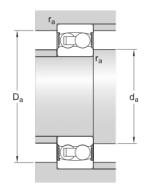
Technical Specification

/lindrical
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Dimensions

d	15 mm	Bore diameter
D	35 mm	Outside diameter
В	14 mm	Width
d_2	≈ 19.05 mm	Recess diameter inner ring
D_2	≈ 30.4 mm	Recess diameter outer ring
r _{1,2}	min. 0.6 mm	Chamfer dimension



Abutment dimensions

d _a min. 19 mm	Abutment diameter shaft
d _a max. 19 mm	Abutment diameter shaft
D _a max. 30.8 mm	Abutment diameter housing
r _a max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	С	7.41 kN
Basic static load rating	C_0	1.76 kN
Fatigue load limit	P_{u}	0.09 kN
Reference speed		40 000 r/min



Limiting speed		14 000 r/min
Permissible angular misalignment	α	1.5 °
Calculation factor	k _r	0.045
Limiting value	е	0.33
Calculation factor	Y ₀	2
Calculation factor	Y ₁	1.9
Calculation factor	Y ₂	3

Mass

Mass bearing	0.058 kg
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