

1206 EM

Self-aligning ball bearing

Self-aligning ball bearings 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, which can be caused, for example, by shaft deflection.

- Accommodate static and dynamic misalignment
- Excellent high-speed performance
- Excellent light load performance
- Low friction



Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width	16 mm

Performance

Basic dynamic load rating	15.6 kN
Basic static load rating	4.65 kN
Reference speed	24 000 r/min
Limiting speed	15 000 r/min

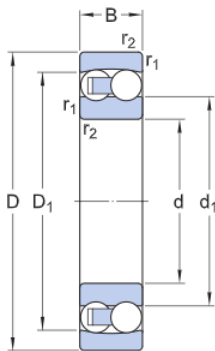
Properties

Retaining feature, inner ring	None
Locating feature, bearing outer ring	None
Number of rows	2
Bore type	Cylindrical
Cage	Machined metal
Radial internal clearance	CN
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

Bore type

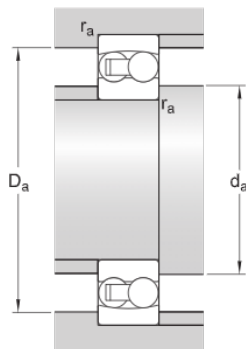
Cylindrical



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	16 mm	Width
d ₁	≈ 40.3 mm	Shoulder diameter inner ring
D ₁	≈ 51.9 mm	Shoulder diameter outer ring
r _{1,2}	min. 1 mm	Chamfer dimension

Abutment dimensions



d _a	min. 35.6 mm	Abutment diameter shaft
D _a	max. 56.4 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	15.6 kN
Basic static load rating	C ₀	4.65 kN
Fatigue load limit	P _u	0.24 kN
Reference speed		24 000 r/min

Limiting speed		15 000 r/min
Permissible angular misalignment	α	2.5 °
Calculation factor	k_r	0.04
Limiting value	e	0.25
Calculation factor	Y_0	2.5
Calculation factor	Y_1	2.5
Calculation factor	Y_2	3.9

Mass

Mass bearing	0.24 kg
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