

1322 KM



Self-aligning ball bearing with tapered bore

Self-aligning ball bearings, with a tapered bore, 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. The tapered bore facilitates ease of mounting via adapter sleeves or withdrawal sleeves.

- Ease of mounting via adapter sleeves or withdrawal sleeves
- Accommodate static and dynamic misalignment
- Excellent high-speed performance
- Excellent light load performance
- Low friction

Overview

Dimensions

Bore diameter	110 mm
Outside diameter	240 mm
Width	50 mm

Performance

Basic dynamic load rating	163 kN
Basic static load rating	72 kN
Reference speed	5 300 r/min
Limiting speed	3 600 r/min

Properties

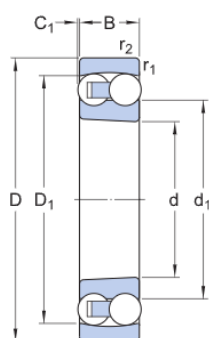
Retaining feature, inner ring	None
Locating feature, bearing outer ring	None
Number of rows	2
Bore type	Tapered 1:12
Cage	Machined metal
Radial internal clearance	CN
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

Bore type

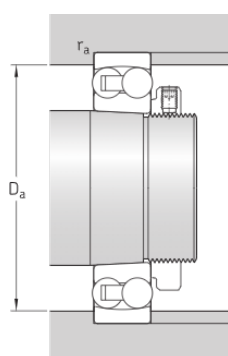
Tapered 1:12

Dimensions



d	110 mm	Bore diameter
D	240 mm	Outside diameter
B	50 mm	Width
d ₁	≈ 154.35 mm	Shoulder diameter inner ring
D ₁	≈ 202.9 mm	Shoulder diameter outer ring
C ₁	2.512 mm	Protrusion of the balls from bearing side faces
r _{1,2}	min. 3 mm	Chamfer dimension

Abutment dimensions



D _a	max. 226 mm	Abutment diameter housing
r _a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	163 kN
Basic static load rating	C ₀	72 kN
Fatigue load limit	P _u	2.75 kN

Reference speed		5 300 r/min
Limiting speed		3 600 r/min
Permissible angular misalignment	α	3 °
Calculation factor	k_r	0.045
Limiting value	e	0.22
Calculation factor	Y_0	2.8
Calculation factor	Y_1	2.9
Calculation factor	Y_2	4.5

Mass

Mass bearing	11.5 kg
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