

11207 TN9



Self-aligning ball bearing with extended inner ring

Self-aligning ball bearings, with extended inner ring, 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 extended inner ring enables use of commercial grade shafting and axially location on the shaft by means of a slot at one end of the inner ring.

- Accommodate static and dynamic misalignment
- Excellent high-speed performance
- Excellent light load performance
- Low friction
- Extended inner ring facilitates ease of mounting

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	52 mm

Performance

Basic dynamic load rating	19 kN
Basic static load rating	6 kN
Reference speed	14 000 r/min
Limiting speed	5 600 r/min

Properties

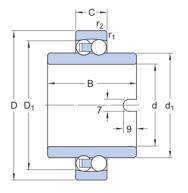
Retaining feature, inner ring	Locating slot
Locating feature, bearing outer ring	None
Number of rows	2
Bore type	Cylindrical
Cage	Non-metallic
Radial internal clearance	CN
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without



Technical Specification

Bore type

Cylindrical

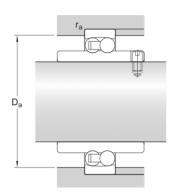


Dimensions

Bore diameter	35 mm	d
Outside diameter	72 mm	D
Width	52 mm	В
Width outer ring	17 mm	С
Shoulder diameter inner ring	≈ 47 mm	d_1
Shoulder diameter outer ring	≈ 60.9 mm	D_1
Chamfer dimension	min. 1.1 mm	r _{1,2}

Abutment dimensions

D _a max. 65	mm	Abutment diameter housing
r _a max. 1.1	mm	Fillet radius



Calculation data

Basic dynamic load rating	С	19 kN
Basic static load rating	C ₀	6 kN
Fatigue load limit	Pu	0.305 kN
Limiting speed		5 600 r/min



Permissible angular misalignment	α	2.5 °
Calculation factor	k _r	0.04
Limiting value	е	0.23
Calculation factor	Y ₀	2.8
Calculation factor	Y ₁	2.7
Calculation factor	Y ₂	4.2

Mass

Mass bearing 0.54 k



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