



Image may differ from product. See technical specification for details.

11212 TN9

Self-aligning ball bearing with extended inner ring

Self-aligning ball bearings, with extended inner ring, have two rows of balls, a common spheroidal 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	60 mm
Outside diameter	110 mm
Width	62 mm

Performance

Basic dynamic load rating	31.2 kN
Basic static load rating	12.2 kN
Reference speed	9 000 r/min
Limiting speed	3 400 r/min

Properties

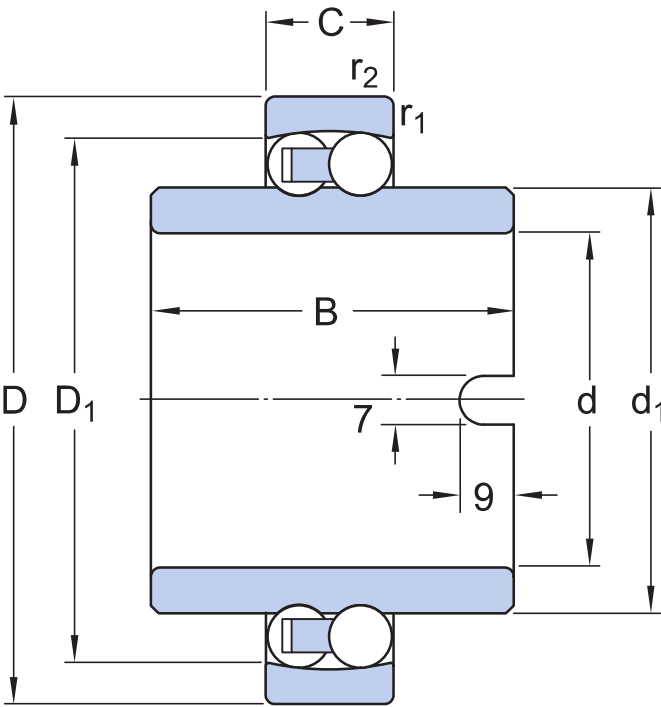
Retaining feature, inner ring	Locating slot
Locating feature, bearing outer ring	None
Number of rows	2
Bore type	Cylindrical
Cage	Non-metallic
Radial internal clearance	CN
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Logistics

Product net weight	1.45 kg
eClass code	23-05-08-06
UNSPSC code	31171532

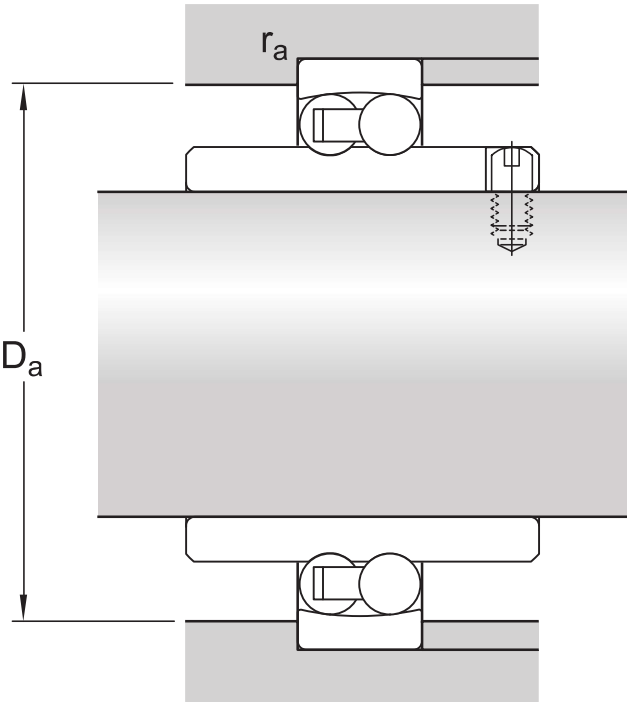
Technical specification

Bore type	Cylindrical
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Dimensions

d	60 mm	Bore diameter
D	110 mm	Outside diameter
B	62 mm	Width
C	22 mm	Width outer ring
d ₁	≈ 78 mm	Shoulder diameter inner ring
D ₁	≈ 95.6 mm	Shoulder diameter outer ring
r _{1,2}	min. 1.5 mm	Chamfer dimension



Abutment dimensions

D_a	max. 101 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	31.2 kN
Basic static load rating	C_0	12.2 kN
Fatigue load limit	P_u	0.62 kN
Limiting speed		3 400 r/min
Permissible angular misalignment	α	2.5 °
Calculation factor	k_r	0.04
Limiting value	e	0.19
Calculation factor	Y_0	3.6
Calculation factor	Y_1	3.3
Calculation factor	Y_2	5.1

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- [Tolerances: Normal, JS7](#)
- [Radial internal clearance: table](#)

BEARING INTERFACES

- [Seat tolerances for standard conditions](#)
- [Tolerances and resultant fits](#)

More Information

 Product details Designs and variants General bearing specifications Loads Temperature limits Permissible speed Design considerations Mounting Designation system	 Engineering information Principles of rolling bearing selection General bearing knowledge Bearing selection process Bearing interfaces Seat tolerances for standard conditions Selecting internal clearance Lubrication Sealing, mounting and dismounting Bearing failure and how to prevent it	 Tools SKF Product select - Select and evaluate bearing SKF Product select - Combine housing with bearing SimPro Quick LubeSelect for SKF greases Heater selection tool Drive-up Method Program Oil Injection Method Program Tool and Accessory Selector for sleeves and shafts
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