

2211 E-2RS1KTN9



Self-aligning ball bearing with tapered bore and seals on both sides

Self-aligning ball bearings, with a tapered bore and 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 tapered bore facilitates ease of mounting via adapter/withdrawal sleeves. The integral sealing can prolong bearing service life by keeping lubricant in the bearings and contaminants out.

- Ease of mounting via adapter/withdrawal sleeves
- Accommodate static and dynamic misalignment
- Excellent high-speed and light load performance
- Low friction
- Integral sealing results in reduced maintenance requirements and prolonged bearing service life

Overview

Dimensions

Bore diameter	2.165 in
Outside diameter	3.937 in
Width	0.984 in

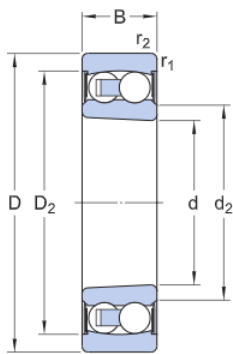
Properties

Bore type	Tapered 1:12
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Material, bearing	Bearing steel
Radial internal clearance	CN
Relubrication feature	Without
Retaining feature, inner ring	None
Sealing	Seal on both sides
Sealing type	Contact
Tolerance class	Normal

Technical Specification

Bore type

Tapered 1:12

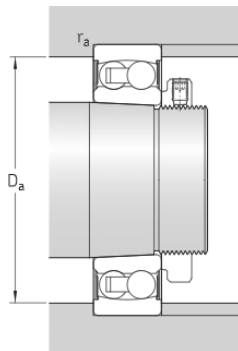


Dimensions

d	2.165 in	Bore diameter
D	3.937 in	Outside diameter
B	0.984 in	Width
d ₂	≈ 2.594 in	Recess diameter inner ring
D ₂	≈ 3.484 in	Recess diameter outer ring
r _{1,2}	min. 0.059 in	Chamfer dimension

Abutment dimensions

D _a	max. 3.583 in	Abutment diameter housing
r _a	max. 0.059 in	Fillet radius



Calculation data

Basic dynamic load rating	C	6 205 lbf
Basic static load rating	C ₀	2 383 lbf
Fatigue load limit	P _u	121 lbf
Limiting speed		4 300 r/min

Permissible angular misalignment	α	1.5 °
Calculation factor	k_r	0.045
Limiting value	e	0.2
Calculation factor	Y_0	3.2
Calculation factor	Y_1	3.2
Calculation factor	Y_2	4.9

Mass

Mass bearing	1.742 lb
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