



2205 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	0.984 in
Outside diameter	2.047 in
Width	0.709 in

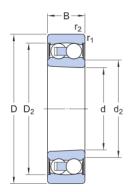
Properties

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



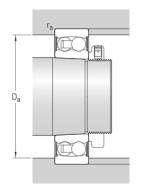
Technical Specification

Bore type	Tapered 1:12
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Dimensions

Bore diameter	0.984 in	d
Outside diameter	2.047 in	D
Width	0.709 in	В
Recess diameter inner ring	≈ 1.22 in	d_2
Recess diameter outer ring	≈ 1.819 in	D_2
Chamfer dimension	min. 0.039 i	r _{1,2}



Abutment dimensions

D_a	max. 1.827	in	Abutment diameter housing
ra	max. 0.039	in	Fillet radius

Calculation data

Basic dynamic load rating	С	3 215 lbf
Basic static load rating	C_0	899 lbf
Fatigue load limit	P_{u}	46 lbf
Limiting speed		9 000 r/min



Permissible angular misalignment	α	1.5 °
Calculation factor	k _r	0.045
Limiting value	е	0.28
Calculation factor	Y ₀	2.5
Calculation factor	Y ₁	2.2
Calculation factor	Y ₂	3.5

Mass



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