



2200 E-2RS1TN9

Self-aligning ball bearing with seals on both sides

Self-aligning ball bearings, with 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 integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Accommodate static and dynamic misalignment
- Excellent high-speed performance
- Excellent light load performance
- Low friction
- Integral sealing results in reduced maintenance requirements and prolonged bearing service life

Overview

Dimensions

Bore diameter	0.394 in
Outside diameter	1.181 in
Width	0.551 in

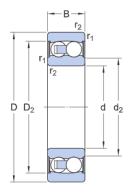
Properties

Bore type	Cylindrical
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



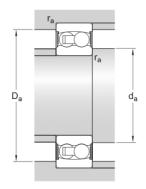
Technical Specification

Bore type	Cylindrical
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Dimensions

d	0.394 in	Bore diameter
D	1.181 in	Outside diameter
В	0.551 in	Width
d_2	≈ 0.575 in	Recess diameter inner ring
D_2	≈ 0.973 in	Recess diameter outer ring
r _{1,2}	min. 0.024 in	Chamfer dimension



Abutment dimensions

Abutment diameter shaft	a min. 0.551 in	d_a
Abutment diameter shaft	_a max. 0.551 in	d_{a}
Abutment diameter housing	_a max. 1.016 in	D_{a}
Fillet radius	max. 0.024 in	r _a

Calculation data

Basic dynamic load rating	С	1 243 lbf
Basic static load rating	C_0	265 lbf
Fatigue load limit	$P_{\rm u}$	14 lbf
l imiting speed		17 000 r/min



Permissible angular misalignment	α	1.5 °
Calculation factor	k _r	0.045
Limiting value	е	0.33
Calculation factor	Y ₀	2
Calculation factor	Y_1	1.9
Calculation factor	Y ₂	3

Mass

Mass bearing	0.106 lb
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