



2212 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	2.362 in
Outside diameter	4.331 in
Width	1.102 in

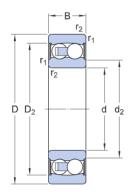
Properties

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



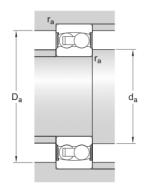
Technical Specification

Bore type Cylindrical



Dimensions

Bore diameter	2.362 in	d
Outside diameter	4.331 in	D
Width	1.102 in	В
Recess diameter inner ring	≈ 2.882 in	d_2
Recess diameter outer ring	≈ 3.819 in	D_2
Chamfer dimension	min. 0.059 in	r _{1,2}



Abutment dimensions

Abutment diameter shaft	d _a min. 2.717 in	d_{a}
Abutment diameter shaft	d _a max. 2.874 in	d_{a}
Abutment diameter housing	D _a max. 3.976 in	D_{a}
Fillet radius	a max. 0.059 in	ra

Calculation data

Basic dynamic load rating	С	7 014 lbf
Basic static load rating	C_0	2 743 lbf
Fatigue load limit	P_{u}	139 lbf
Limiting speed		3 800 r/min



Permissible angular misalignment	α	1.5 °
Calculation factor	k _r	0.045
Limiting value	е	0.19
Calculation factor	Y ₀	3.6
Calculation factor	Y ₁	3.3
Calculation factor	Y ₂	5.1

Mass



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