

## 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	10 mm
Outside diameter	30 mm
Width	14 mm

#### Performance

Basic dynamic load rating	5.53 kN
Basic static load rating	1.18 kN
Reference speed	50 000 r/min
Limiting speed	17 000 r/min

#### Properties

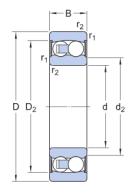
None
None
2
Cylindrical
Non-metallic
CN
Normal
Bearing steel
Without
Seal on both sides
Contact
Grease
Without



## Technical Specification

Bore type

Cylindrical



## Dimensions

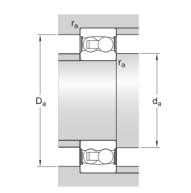
d	10 mm	Bore diameter
D	30 mm	Outside diameter
В	14 mm	Width
d <sub>2</sub>	≈14.6 mm	Recess diameter inner ring
D <sub>2</sub>	≈ 24.72 mm	Recess diameter outer ring
r <sub>1,2</sub>	min. 0.6 mm	Chamfer dimension

## Abutment dimensions

<sup>d</sup> a min. 14 mm	Abutment diameter shaft
d <sub>a</sub> max. 14 mm	Abutment diameter shaft
D <sub>a</sub> max. 25.8 mm	Abutment diameter housing
r <sub>a</sub> max. 0.6 mm	Fillet radius

## Calculation data

Basic dynamic load rating	С	5.53 kN
Basic static load rating	C <sub>O</sub>	1.18 kN
Fatigue load limit	Pu	0.061 kN
Reference speed		50 000 r/min





Limiting speed		17 000 r/min
Permissible angular misalignment	α	1.5 °
Calculation factor	k <sub>r</sub>	0.045
Limiting value	е	0.33
Calculation factor	Y <sub>0</sub>	2
Calculation factor	Y <sub>1</sub>	1.9
Calculation factor	Y <sub>2</sub>	3

## Mass

Mass bearing 0.048 kg	Mass bearing	0.048 kg
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