

# 6007-2RZTN9/HC5C3WT



## Hybrid deep groove ball bearing with seals on both sides

Hybrid single row deep groove ball bearings with seals on both sides have rings made of bearing steel and rolling elements made of bearing grade silicon nitride (Si<sub>3</sub>N<sub>4</sub>), which make the bearings electrically insulating. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out. The silicon nitride elements not only provide protection from electric current damage but also, when compared to same-sized bearings with steel rolling elements, provide enhanced bearing performance, extended bearing service life, higher speed capability, high wear-resistance, high bearing stiffness, reduced risk of smearing and false brinelling, and less sensitivity to temperature gradients, making them suitable for use in difficult conditions and contaminated environments.

- Protected against electric current damage
- Integral sealing prolongs bearing service life
- Especially suited for use in difficult conditions and contaminated environments
- Typical benefits of single row deep groove ball bearings

## Overview

### Dimensions

Bore diameter	35 mm
Outside diameter	62 mm
Width	14 mm

### Performance

Basic dynamic load rating	15.9 kN
Basic static load rating	10.2 kN
Limiting speed	14 000 r/min
Reference speed	26 000 r/min

## Properties

Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Hybrid
Number of rows	1
Radial internal clearance	C3
Relubrication feature	Without

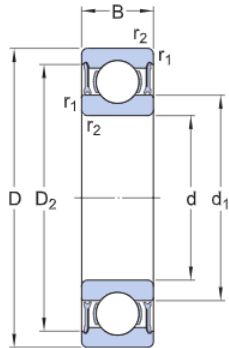
Sealing

Seal on both sides

Sealing type

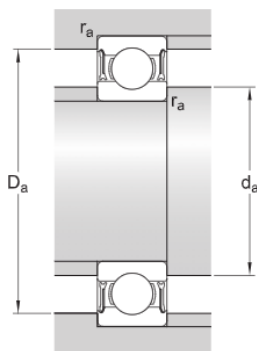
Non-contact

# Technical Specification



## Dimensions

d	35 mm	Bore diameter
D	62 mm	Outside diameter
B	14 mm	Width
d <sub>1</sub>	≈ 43.75 mm	Shoulder diameter inner ring
D <sub>2</sub>	≈ 55.6 mm	Recess diameter outer ring shoulder
r <sub>1,2</sub>	min. 1 mm	Chamfer dimension



## Abutment dimensions

d <sub>a</sub>	min. 39.6 mm	Abutment diameter shaft
d <sub>a</sub>	max. 43.7 mm	Abutment diameter shaft
D <sub>a</sub>	max. 57.4 mm	Abutment diameter housing
r <sub>a</sub>	max. 0.3 mm	Fillet radius

## Calculation data

Basic dynamic load rating	C	15.9 kN
Basic static load rating	C <sub>0</sub>	10.2 kN
Fatigue load limit	P <sub>u</sub>	0.32 kN
Reference speed		26 000 r/min
Limiting speed		14 000 r/min
Calculation factor	k <sub>r</sub>	0.025
Calculation factor	f <sub>0</sub>	14.8

Mass

Mass bearing

0.15 kg

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