

# 2304 TN9

## Self-aligning ball bearings

Bearing data Tolerances,

Normal, JS7,

Radial internal clearance,

table

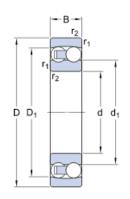
Bearing interfaceS

Seat tolerances for standard

conditions,

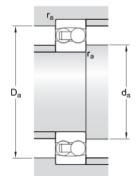
Tolerances and resultant fits

# Technical specification



### **DIMENSIONS**

d	20 mm
D	52 mm
В	21 mm
$d_1$	≈ 29.15 mm
$D_1$	≈ 41.9 mm
r <sub>1,2</sub>	min. 1.1 mm



### **ABUTMENT DIMENSIONS**

d <sub>a</sub>	min. 27 mm
D <sub>a</sub>	max. 45 mm
r <sub>a</sub>	max. 1.1 mm



### CALCULATION DATA

Basic dynamic load rating	С	18.2 kN
Basic static load rating	$C_0$	4.75 kN
Fatigue load limit	$P_{\rm u}$	0.24 kN
Reference speed		26000 r/min
Limiting speed		19000 r/min
Permissible angular misalignment	α	3°
Calculation factor	k <sub>r</sub>	0.05
Calculation factor	е	0.52
Calculation factor	Y <sub>0</sub>	1.3
Calculation factor	$Y_1$	1.2
Calculation factor	Y <sub>2</sub>	1.9

## MASS

Mass bearing	0.22 kg
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5KF.



### More information

Product details	Engineering information	Tools	
Designs and variants	Principles of rolling bearing selection	Bearing Select	
Bearing data	General bearing knowledge	SimPro Quick	
Loads	Bearing selection process	Engineering Calculator	
Temperature limits	Bearing interfaces	LubeSelect for SKF greases	
Permissible speed	Seat tolerances for	Heater selection tool	
Design considerations	standard conditions	Drive-up Method Program	
Mounting	Selecting internal clearance	Oil Injection Method	
Designation system	Lubrication	Program  Tool and Accessory Selector	
	Sealing, mounting and dismounting	for sleeves and shafts	
	Bearing failure and how to prevent it	Housing Select	
		Rolling bearings mounting and dismounting	
		instructions	





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