



Image may differ from product. See technical specification for details.

## 3203 A-2RS1TN9/MT33

### Double row angular contact ball bearing with seals or shields

Double row angular contact ball bearings, with seals or shields, correspond to a pair of single row angular contact ball bearings in a back-to-back arrangement, while requiring less axial space. Depending on the sealing execution, they can operate at high speeds and are more suitable than deep groove ball bearings for supporting large axial forces in both directions.

- High-speed capability
- Accommodate relatively high radial loads, high axial loads in both directions and tilting moments
- Suitable where a stiff bearing arrangement is required
- Require less axial space than equivalent pair of single row angular contact ball bearings
- Integral sealing prolongs bearing service life

## Overview

### Dimensions

Bore diameter	17 mm
Outside diameter	40 mm
Width	17.5 mm
Contact angle	30 °

### Performance

Basic dynamic load rating	14.3 kN
Basic static load rating	8.8 kN
Limiting speed	12 000 r/min

### Properties

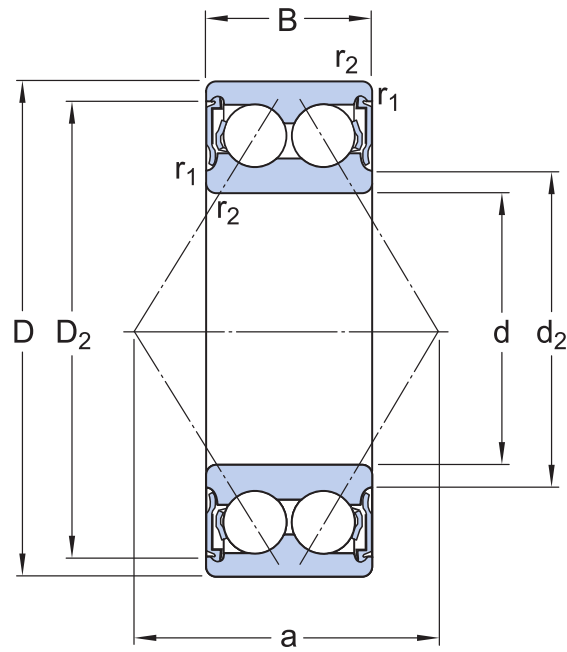
Contact type	Normal contact (two-point contact)
Number of rows	2
Locating feature, bearing outer ring	None
Ring type	One-piece inner and outer rings
Cage	Non-metallic
Arrangement of contact angle (double-row bearing)	Back-to-back (O)
Matched arrangement	No
Universal matching bearing	No
Axial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	Without

### Logistics

Product net weight	0.096 kg
eClass code	23-05-08-03
UNSPSC code	31171531

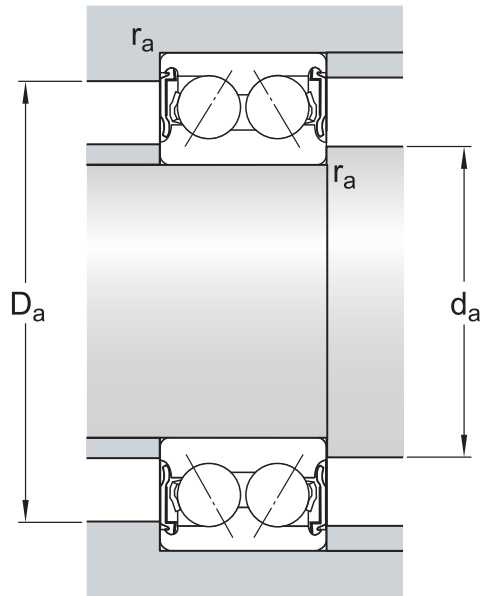


## Technical specification



## Dimensions

$d$	17 mm	Bore diameter
$D$	40 mm	Outside diameter
$B$	17.5 mm	Width
$d_2$	$\approx 23.3$ mm	Recess diameter inner ring shoulder
$D_2$	$\approx 34.95$ mm	Recess diameter outer ring shoulder
$r_{1,2}$	min. 0.6 mm	Chamfer dimension inner ring
$a$	23 mm	Distance pressure point(s)






## Abutment dimensions

$d_a$	min. 21.4 mm	Abutment diameter shaft
$d_a$	max. 23 mm	Abutment diameter shaft
$D_a$	max. 35.6 mm	Abutment diameter housing
$r_a$	max. 0.6 mm	Fillet radius

## Calculation data

Basic dynamic load rating	C	14.3 kN
Basic static load rating	$C_0$	8.8 kN
Fatigue load limit	$P_u$	0.365 kN
Limiting speed		12 000 r/min
Calculation factor	$k_r$	0.06
Limiting value	e	0.8
Calculation factor	X	0.63
Calculation factor	$Y_0$	0.66
Calculation factor	$Y_1$	0.78
Calculation factor	$Y_2$	1.24

## More Information

 Product details	 Engineering information	 Tools
<a href="#">Designs and variants</a>		<a href="#">SKF Product select</a>
<a href="#">General bearing specifications</a>	<a href="#">Principles of rolling bearing selection</a>	<a href="#">SimPro Quick</a>
<a href="#">Loads</a>	<a href="#">General bearing knowledge</a>	<a href="#">Bearing Frequency Calculator</a>
<a href="#">Temperature limits</a>	<a href="#">Bearing selection process</a>	<a href="#">LubeSelect for SKF greases</a>
<a href="#">Permissible speed</a>	<a href="#">Bearing interfaces</a>	<a href="#">Heater selection tool</a>
<a href="#">Designation system</a>	<a href="#">Seat tolerances for standard conditions</a>	<a href="#">Rolling bearings mounting and dismounting instructions</a>
	<a href="#">Selecting internal clearance or preload</a>	
	<a href="#">Lubrication</a>	
	<a href="#">Sealing, mounting and dismounting</a>	
	<a href="#">Bearing failure and how to prevent it</a>	



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