

# 3201 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	12 mm
Contact angle	30 °
Outside diameter	32 mm
Width	15.9 mm

### Performance

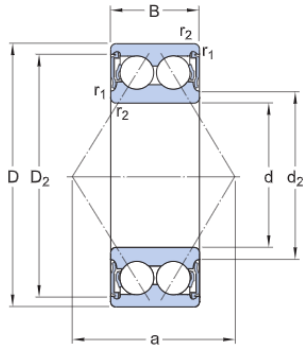
Basic dynamic load rating	10.1 kN
Basic static load rating	5.6 kN
Limiting speed	15 000 r/min

### Properties

Arrangement of contact angle (double-row bearing)	Back-to-back (0)
Axial internal clearance	CN
Cage	Non-metallic
Coating	Without
Contact type	Normal contact (two-point contact)
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No

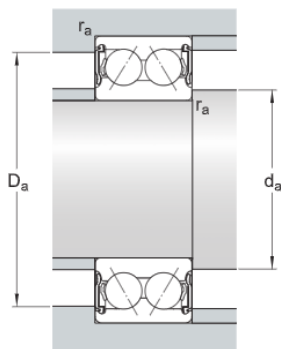
Material, bearing	Bearing steel
Number of rows	2
Relubrication feature	Without
Ring type	One-piece inner and outer rings
Sealing	Seal on both sides
Sealing type	Contact
Universal matching bearing	No

# Technical Specification



## Dimensions

d	0.472 in	Bore diameter
D	1.26 in	Outside diameter
B	0.626 in	Width
d <sub>2</sub>	≈ 0.677 in	Recess diameter inner ring shoulder
D <sub>2</sub>	≈ 1.091 in	Recess diameter outer ring shoulder
r <sub>1,2</sub>	min. 0.024 in	Chamfer dimension inner ring
a	0.748 in	Distance pressure point(s)



## Abutment dimensions

d <sub>a</sub>	min. 0.646 in	Abutment diameter shaft
d <sub>a</sub>	max. 0.669 in	Abutment diameter shaft
D <sub>a</sub>	max. 1.087 in	Abutment diameter housing
r <sub>a</sub>	max. 0.024 in	Fillet radius

## Calculation data

Basic dynamic load rating	C	2 271 lbf
Basic static load rating	C <sub>0</sub>	1 259 lbf
Fatigue load limit	P <sub>u</sub>	54 lbf
Limiting speed		15 000 r/min
Calculation factor	k <sub>r</sub>	0.06
Limiting value	e	0.8
Calculation factor	X	0.63
Calculation factor	Y <sub>0</sub>	0.66

Calculation factor	$Y_1$	0.78
Calculation factor	$Y_2$	1.24

## Mass

Mass bearing		0.128 lb
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