



## 3201 ATN9 Angular contact ball bearings, double row

- Popular item

### Angular contact ball bearings, double row

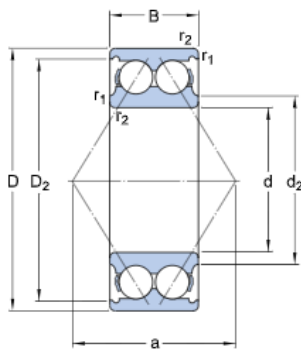
#### Bearing data

[Tolerances](#),  
Normal, P6, P5,  
[Internal clearance](#),  
table, drawing no

#### Bearing interfaces

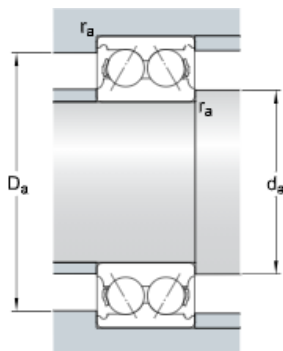
[Seat tolerances for standard conditions](#),  
[Tolerances and resultant fit](#)

### Technical specification



#### DIMENSIONS

|                  |             |                                     |
|------------------|-------------|-------------------------------------|
| d                | 12 mm       | Bore diameter                       |
| D                | 32 mm       | Outside diameter                    |
| B                | 15.9 mm     | Width                               |
| d <sub>2</sub>   | ≈ 17.2 mm   | Recess diameter inner ring shoulder |
| D <sub>2</sub>   | ≈ 27.7 mm   | Recess diameter outer ring shoulder |
| r <sub>1,2</sub> | min. 0.6 mm | Chamfer dimension inner ring        |
| a                | 19 mm       | Distance pressure point(s)          |



#### ABUTMENT DIMENSIONS

|                |              |                           |
|----------------|--------------|---------------------------|
| d <sub>a</sub> | min. 16.4 mm | Abutment diameter shaft   |
| D <sub>i</sub> | max. 27.6 mm | Abutment diameter housing |
| r <sub>a</sub> | max. 0.6 mm  | Fillet radius             |

## CALCULATION DATA

|                |              |                           |
|----------------|--------------|---------------------------|
| C              | 10.1 kN      | Basic dynamic load rating |
| C <sub>0</sub> | 5.6 kN       | Basic static load rating  |
| P <sub>u</sub> | 0.24 kN      | Fatigue load limit        |
|                | 24 000 r/min | Reference speed           |
|                | 22 000 r/min | Limiting speed            |
| k <sub>r</sub> | 0.06         | Calculation factor        |
| e              | 0.8          | Calculation factor        |
| X              | 0.63         | Calculation factor        |
| Y <sub>0</sub> | 0.66         | Calculation factor        |
| Y <sub>1</sub> | 0.78         | Calculation factor        |
| Y <sub>2</sub> | 1.24         | Calculation factor        |

## MASS

|          |              |
|----------|--------------|
| 0.058 kg | Mass bearing |
|----------|--------------|