



# 3210 ATN9

- Popular item  
- SKF Explorer

## Angular contact ball bearings, double row

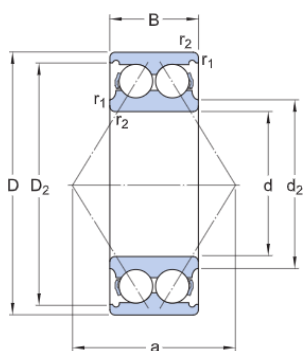
### Bearing data

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

### Bearing interfaces

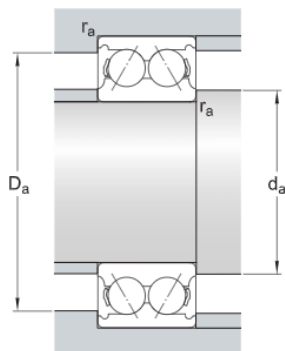
[Seat tolerances for standard conditions](#),  
[Tolerances and resultant fit](#)

## Technical specification



### DIMENSIONS

|                  |             |                                     |
|------------------|-------------|-------------------------------------|
| d                | 50 mm       | Bore diameter                       |
| D                | 90 mm       | Outside diameter                    |
| B                | 30.2 mm     | Width                               |
| d <sub>2</sub>   | ≈ 57.8 mm   | Recess diameter inner ring shoulder |
| D <sub>2</sub>   | ≈ 82.1 mm   | Recess diameter outer ring shoulder |
| r <sub>1,2</sub> | min. 1.1 mm | Chamfer dimension inner ring        |
| a                | 52 mm       | Distance pressure point(s)          |



### ABUTMENT DIMENSIONS

|                |            |                           |
|----------------|------------|---------------------------|
| d <sub>a</sub> | min. 57 mm | Abutment diameter shaft   |
| D <sub>i</sub> | max. 83 mm | Abutment diameter housing |
| r <sub>a</sub> | max. 1 mm  | Fillet radius             |

## CALCULATION DATA

|                           |                |             |
|---------------------------|----------------|-------------|
| Basic dynamic load rating | C              | 51 kN       |
| Basic static load rating  | C <sub>0</sub> | 42.5 kN     |
| Fatigue load limit        | P <sub>u</sub> | 1.8 kN      |
| Reference speed           |                | 8 000 r/min |
| Limiting speed            |                | 7 000 r/min |
| Calculation factor        | 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        |

## MASS

|              |         |
|--------------|---------|
| Mass bearing | 0.65 kg |
|--------------|---------|

## More information

| Product details                      | Engineering information                                 | Tools                                                                  |
|--------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------|
| <a href="#">Designs and variants</a> | <a href="#">Principles of rolling bearing selection</a> | <a href="#">Bearing Select</a>                                         |
| <a href="#">Bearing data</a>         | <a href="#">General bearing knowledge</a>               | <a href="#">SimPro Quick</a>                                           |
| <a href="#">Loads</a>                | <a href="#">Bearing selection process</a>               | <a href="#">Engineering Calculator</a>                                 |
| <a href="#">Temperature limits</a>   | <a href="#">Bearing interfaces</a>                      | <a href="#">LubeSelect for SKF greases</a>                             |
| <a href="#">Permissible speed</a>    | <a href="#">Seat tolerances for standard conditions</a> | <a href="#">Heater selection tool</a>                                  |
| <a href="#">Designation system</a>   | <a href="#">Selecting internal clearance or preload</a> | <a href="#">Rolling bearings mounting and dismounting instructions</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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