



## 3209 ATN9

- Popular item  
- SKF Explorer

### Angular contact ball bearings, double row

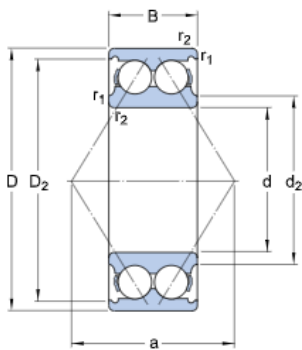
#### Bearing data

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

#### Bearing interfaces

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

### Technical specification

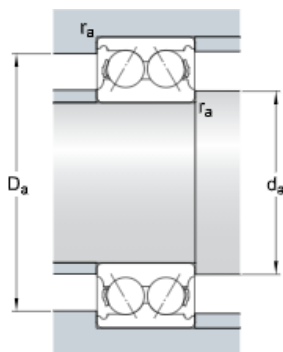


#### DIMENSIONS

|      |            |                                     |
|------|------------|-------------------------------------|
| d    | 45 mm      | Bore diameter                       |
| D    | 85 mm      | Outside diameter                    |
| B    | 30.2 mm    | Width                               |
| d2   | ≈52.8 mm   | Recess diameter inner ring shoulder |
| D2   | ≈77.1 mm   | Recess diameter outer ring shoulder |
| r1,2 | min.1.1 mm | Chamfer dimension inner ring        |
| a    | 49 mm      | Distance pressure point(s)          |

#### ABUTMENT DIMENSIONS

|    |           |                           |
|----|-----------|---------------------------|
| da | min.52 mm | Abutment diameter shaft   |
| Da | max.78 mm | Abutment diameter housing |
| ra | max.1 mm  | Fillet radius             |



## CALCULATION DATA

|                           |                |             |
|---------------------------|----------------|-------------|
| Basic dynamic load rating | C              | 52 kN       |
| Basic static load rating  | C <sub>0</sub> | 41.5 kN     |
| Fatigue load limit        | P <sub>u</sub> | 1.76 kN     |
| Reference speed           |                | 7 500 r/min |
| Limiting speed            |                | 7 500 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 | 0.63 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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