



# 1207 ETN9

- Popular item

## Self-aligning ball bearings

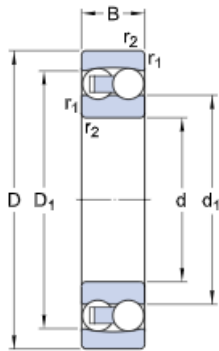
### Bearing data

[Tolerances](#),  
Normal, JS7,  
[Radial internal clearance](#),  
table

### Bearing interfaceS

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

## Technical specification

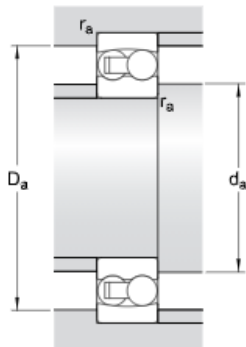


### DIMENSIONS

|      |            |                              |
|------|------------|------------------------------|
| d    | 35 mm      | Bore diameter                |
| D    | 72 mm      | Outside diameter             |
| B    | 17 mm      | Width                        |
| d1   | ≈47 mm     | Shoulder diameter inner ring |
| D1   | ≈60.9 mm   | Shoulder diameter outer ring |
| r1,2 | min.1.1 mm | Chamfer dimension            |

### ABUTMENT DIMENSIONS

|    |            |                           |
|----|------------|---------------------------|
| da | min.42 mm  | Abutment diameter shaft   |
| Da | max.65 mm  | Abutment diameter housing |
| ra | max.1.1 mm | Fillet radius             |



## CALCULATION DATA

|                                  |                |              |
|----------------------------------|----------------|--------------|
| Basic dynamic load rating        | C              | 19 kN        |
| Basic static load rating         | C <sub>0</sub> | 6 kN         |
| Fatigue load limit               | P <sub>u</sub> | 0.305 kN     |
| Reference speed                  |                | 20 000 r/min |
| Limiting speed                   |                | 13 000 r/min |
| Permissible angular misalignment | α              | 2.5 °        |
| Calculation factor               | k <sub>r</sub> | 0.04         |
| Calculation factor               | e              | 0.23         |
| Calculation factor               | Y <sub>0</sub> | 2.8          |
| Calculation factor               | Y <sub>1</sub> | 2.7          |
| Calculation factor               | Y <sub>2</sub> | 4.2          |

## MASS

|              |         |
|--------------|---------|
| Mass bearing | 0.32 kg |
|--------------|---------|

## More information

|   |   |  |
|---|---|--|
| <p>Product details</p> <hr/> <p><a href="#">Designs and variants</a></p> <hr/> <p><a href="#">Bearing data</a></p> <hr/> <p><a href="#">Loads</a></p> <hr/> <p><a href="#">Temperature limits</a></p> <hr/> <p><a href="#">Permissible speed</a></p> <hr/> <p><a href="#">Design considerations</a></p> <hr/> <p><a href="#">Mounting</a></p> <hr/> <p><a href="#">Designation system</a></p> <hr/> | <p>Engineering information</p> <hr/> <p><a href="#">Principles of rolling bearing selection</a></p> <hr/> <p><a href="#">General bearing knowledge</a></p> <hr/> <p><a href="#">Bearing selection process</a></p> <hr/> <p><a href="#">Bearing interfaces</a></p> <hr/> <p><a href="#">Seat tolerances for standard conditions</a></p> <hr/> <p><a href="#">Selecting internal clearance</a></p> <hr/> <p><a href="#">Lubrication</a></p> <hr/> <p><a href="#">Sealing, mounting and dismantling</a></p> <hr/> <p><a href="#">Bearing failure and how to prevent it</a></p> <hr/> | <p>Tools</p> <hr/> <p><a href="#">Bearing Select</a></p> <hr/> <p><a href="#">SimPro Quick</a></p> <hr/> <p><a href="#">Engineering Calculator</a></p> <hr/> <p><a href="#">LubeSelect for SKF greases</a></p> <hr/> <p><a href="#">Heater selection tool</a></p> <hr/> <p><a href="#">Drive-up Method Program</a></p> <hr/> <p><a href="#">Oil Injection Method Program</a></p> <hr/> <p><a href="#">Tool and Accessory Selector for sleeves and shafts</a></p> <hr/> <p><a href="#">Housing Select</a></p> <hr/> <p><a href="#">Rolling bearings mounting and dismantling instructions</a></p> <hr/> |
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