



# 127 TN9

Popular item

## Self-aligning ball bearings

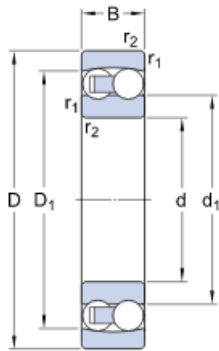
### Bearing data

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

### Bearing interfaceS

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

## Technical specification

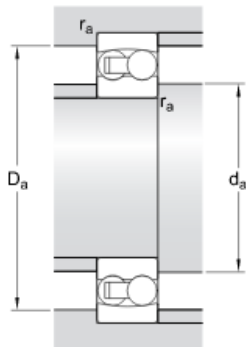


### DIMENSIONS

|                  |             |
|------------------|-------------|
| d                | 7 mm        |
| D                | 22 mm       |
| B                | 7 mm        |
| d <sub>1</sub>   | ≈ 12.709 mm |
| D <sub>1</sub>   | ≈ 17.6 mm   |
| r <sub>1,2</sub> | min. 0.3 mm |

### ABUTMENT DIMENSIONS

|                |              |
|----------------|--------------|
| d <sub>a</sub> | min. 9.4 mm  |
| D <sub>a</sub> | max. 19.6 mm |
| r <sub>a</sub> | max. 0.3 mm  |



## CALCULATION DATA

|                                  |                |             |
|----------------------------------|----------------|-------------|
| Basic dynamic load rating        | C              | 2.65 kN     |
| Basic static load rating         | C <sub>0</sub> | 0.56 kN     |
| Fatigue load limit               | P <sub>u</sub> | 0.029 kN    |
| Reference speed                  |                | 63000 r/min |
| Limiting speed                   |                | 40000 r/min |
| Permissible angular misalignment | α              | 3 °         |
| Calculation factor               | k <sub>r</sub> | 0.04        |
| Calculation factor               | e              | 0.33        |
| Calculation factor               | Y <sub>0</sub> | 2           |
| Calculation factor               | Y <sub>1</sub> | 1.9         |
| Calculation factor               | Y <sub>2</sub> | 3           |

## MASS

|              |          |
|--------------|----------|
| Mass bearing | 0.014 kg |
|--------------|----------|

## More information

|                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <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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