



## NA 4907

- Popular item

### Needle roller bearings with machined rings, with an inner ring

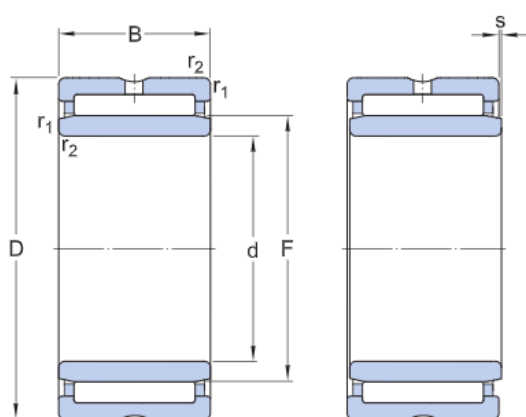
#### Bearing data

Tolerances,  
Normal, P6, P5,  
Radial internal clearance,  
table

#### Design considerations

Shaft and housing tolerances,  
shaft, housing

## Technical specification

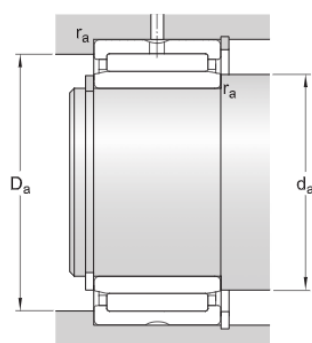


### DIMENSIONS

|           |             |                                                                                                   |
|-----------|-------------|---------------------------------------------------------------------------------------------------|
| d         | 35 mm       | Bore diameter                                                                                     |
| D         | 55 mm       | Outside diameter                                                                                  |
| B         | 20 mm       | Width                                                                                             |
| F         | 42 mm       | Raceway diameter inner ring                                                                       |
| $r_{1,2}$ | min. 0.6 mm | Chamfer dimension outer ring                                                                      |
| s         | max. 0.8 mm | Permissible axial displacement from the normal position of one bearing ring relative to the other |

### ABUTMENT DIMENSIONS

|       |             |                                                                     |
|-------|-------------|---------------------------------------------------------------------|
| d     | min. 39 mm  | Smallest permissible abutment diameter shaft, bearings with flanges |
| D     | max. 51 mm  | Abutment diameter housing (with flanges)                            |
| $r_f$ | max. 0.6 mm | Fillet radius                                                       |



## CALCULATION DATA

|                           |                |              |
|---------------------------|----------------|--------------|
| Basic dynamic load rating | C              | 31.9 kN      |
| Basic static load rating  | C <sub>0</sub> | 54 kN        |
| Fatigue load limit        | P <sub>u</sub> | 6.7 kN       |
| Reference speed           |                | 9 500 r/min  |
| Limiting speed            |                | 11 000 r/min |

## MASS

|              |         |
|--------------|---------|
| Mass bearing | 0.17 kg |
|--------------|---------|

## More information

|                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Product details</p> <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="#">Designation system</a></p> <hr/> | <p>Engineering information</p> <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 failure and how to prevent it</a></p> <hr/> | <p>Tools</p> <p><a href="#">SimPro Quick</a></p> <hr/> <p><a href="#">Bearing Select</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="#">skf.com/mount</a></p> <hr/> |
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