



## K 81111 TN

### Cylindrical roller thrust bearings

Bearing data, Design considerations

[Tolerances,](#)

[table, table, values,](#)

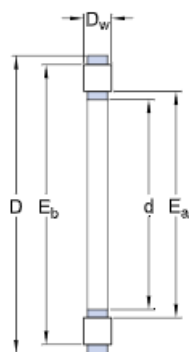
[Design considerations,](#)

[table](#)

Bearing interfaces

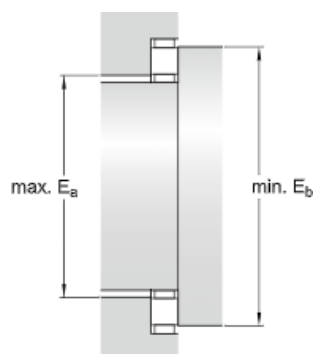
[Seat tolerances for standard conditions](#)

### Technical specification



#### DIMENSIONS

|                |       |
|----------------|-------|
| d              | 55 mm |
| D              | 78 mm |
| D <sub>w</sub> | 6 mm  |
| E <sub>a</sub> | 57 mm |
| E <sub>b</sub> | 77 mm |



### CALCULATION DATA

|                           |                |             |
|---------------------------|----------------|-------------|
| Basic dynamic load rating | C              | 69.5 kN     |
| Basic static load rating  | C <sub>0</sub> | 285 kN      |
| Fatigue load limit        | P <sub>u</sub> | 29 kN       |
| Reference speed           |                | 1 900 r/min |
| Limiting speed            |                | 3 800 r/min |
| Minimum axial load factor | A              | 0.007       |

## MASS

|                                      |          |
|--------------------------------------|----------|
| Mass roller and cage thrust assembly | 0.045 kg |
|--------------------------------------|----------|

## ASSOCIATED PRODUCTS

|                  |          |
|------------------|----------|
| Shaft washer     | WS 81111 |
| Housing washer   | GS 81111 |
| Universal washer | LS 5578  |

## 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/> |
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