



## 305 NR

### Deep groove ball bearings

#### Bearing data

##### Tolerances,

Normal (metric), P6, P5, Normal (inch),

##### Radial internal clearance,

Matched bearing pairs, Stainless steel

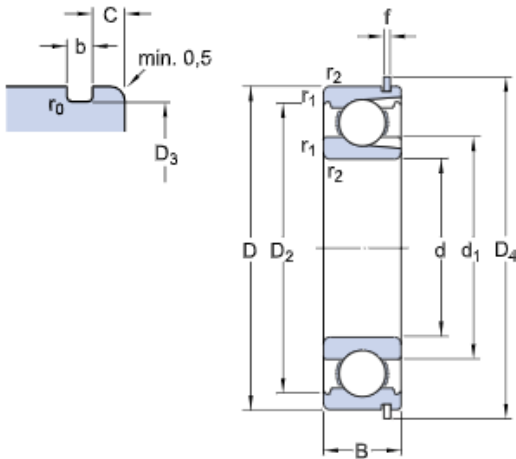
$d < 10$  mm, Other bearings

#### Bearing interfaces

##### Seat tolerances for standard conditions,

##### Tolerances and resultant fits

### Technical specification

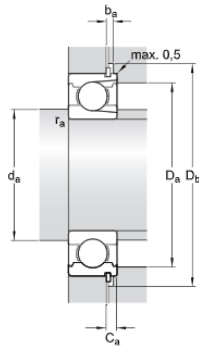


#### DIMENSIONS

|           |             |
|-----------|-------------|
| $d$       | 25 mm       |
| $D$       | 62 mm       |
| $B$       | 17 mm       |
| $d_1$     | ≈ 36.6 mm   |
| $D_2$     | ≈ 52.7 mm   |
| $D_3$     | 59.61 mm    |
| $D_4$     | 67.7 mm     |
| $b$       | 1.9 mm      |
| $C$       | 3.28 mm     |
| $f$       | 1.7 mm      |
| $r_0$     | max. 0.6 mm |
| $r_{1,2}$ | min. 1.1 mm |

#### ABUTMENT DIMENSIONS

|       |              |
|-------|--------------|
| $d_a$ | min. 32 mm   |
| $D_a$ | max. 55 mm   |
| $D_b$ | min. 69 mm   |
| $b_a$ | min. 2.2 mm  |
| $C_a$ | max. 4.98 mm |



$r_a$

max. 1 mm

### CALCULATION DATA

|                           |       |              |
|---------------------------|-------|--------------|
| Basic dynamic load rating | C     | 22.9 kN      |
| Basic static load rating  | $C_0$ | 15.6 kN      |
| Fatigue load limit        | $P_u$ | 0.67 kN      |
| Reference speed           |       | 20 000 r/min |
| Limiting speed            |       | 13 000 r/min |
| Calculation factor        | $k_r$ | 0.05         |

### MASS

|              |         |
|--------------|---------|
| Mass bearing | 0.24 kg |
|--------------|---------|

### INCLUDED PRODUCTS

|           |       |
|-----------|-------|
| Snap ring | SP 62 |
|-----------|-------|

## More information

| Product details   | Engineering information                                 | Tools  |
|---|---|--|
| <a href="#">Single row deep groove ball bearings</a>                    | <a href="#">Principles of rolling bearing selection</a> | <a href="#">Bearing Select</a>   |
| <a href="#">Stainless steel deep groove ball bearings</a>               | <a href="#">General bearing knowledge</a>               | <a href="#">SimPro Quick</a>   |
| <a href="#">Single row deep groove ball bearings with filling slots</a> | <a href="#">Bearing selection process</a>               | <a href="#">Engineering Calculator</a>                                 |
| <a href="#">Double row deep groove ball bearings</a>                    | <a href="#">Bearing interfaces</a>                      | <a href="#">LubeSelect for SKF greases</a>                             |
| <a href="#">Bearing data</a>  | <a href="#">Seat tolerances for standard conditions</a> | <a href="#">Heater selection tool</a>                                  |
| <a href="#">Loads</a>   | <a href="#">Selecting internal clearance</a>            | <a href="#">Rolling bearings mounting and dismounting instructions</a> |
| <a href="#">Temperature limits</a>                                      | <a href="#">Lubrication</a>                             |  |
| <a href="#">Permissible speed</a>                                       | <a href="#">Sealing, mounting and dismounting</a>       |  |
| <a href="#">Designation system</a>                                      | <a href="#">Bearing failure and how to prevent it</a>   |  |

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