

NNCF 4938 CV

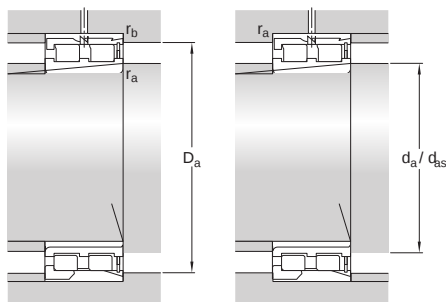
Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.



- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature



| Dimensions       |           |                                                                                                   |
|------------------|-----------|---------------------------------------------------------------------------------------------------|
| d                | 190 mm    | Bore diameter                                                                                     |
| D                | 260 mm    | Outside diameter                                                                                  |
| B                | 69 mm     | Width                                                                                             |
| d <sub>1</sub>   | ≈ 216 mm  | Shoulder diameter inner ring                                                                      |
| D <sub>1</sub>   | ≈ 233 mm  | Shoulder diameter outer ring                                                                      |
| b <sub>1</sub>   | 7 mm      | Width annular lubrication groove outer ring                                                       |
| K                | 4 mm      | Diameter lubrication hole (outer ring)                                                            |
| s                | max. 4 mm | Permissible axial displacement from the normal position of one bearing ring relative to the other |
| r <sub>1,2</sub> | min. 2 mm | Chamfer dimension (open bearings)                                                                 |
| r <sub>3,4</sub> | min. 2 mm | Chamfer dimension                                                                                 |



### Abutment dimensions

|          |             |                           |
|----------|-------------|---------------------------|
| $d_a$    | min. 201 mm | Abutment diameter shaft   |
| $d_{as}$ | 208 mm      | Abutment diameter shaft   |
| $D_a$    | max. 250 mm | Abutment diameter housing |
| $r_a$    | max. 2 mm   | Fillet radius             |
| $r_b$    | max. 2 mm   | Fillet radius             |

### Calculation data

|                           |       |             |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C     | 605 kN      |
| Basic static load rating  | $C_0$ | 1 290 kN    |
| Fatigue load limit        | $P_u$ | 132 kN      |
| Reference speed           |       | 1 100 r/min |
| Limiting speed            |       | 1 400 r/min |
| Minimum load factor       | $k_r$ | 0.25        |

### Tolerances and clearances

#### GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal
- Radial internal clearance: table
- Axial internal clearance

#### BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit